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UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Escuela Técnica Superior de Ingeniería del Diseño

IMPLEMENTACIÓN Y EVALUACIÓN DE TÉCNICAS DE PLANIFICACIÓN EN SISTEMAS DE TIEMPO REAL CRÍTICO

TRABAJO FINAL DEL

Grado en Ingeniería Electrónica Industrial y Automática

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Resumen

En los sistemas de tiempo real críticos no pueden producirse errores, ya que estos se consideran catastróficos. Desde el punto de vista de los requisitos temporales, esto significa que ninguna tarea puede perder su plazo. Por ello, es muy importante desarrollar técnicas de planificación que produzcan planes de ejecución correctos.

En los últimos años, las técnicas de optimización matemática como la programación lineal entera (ILP) han mejorado con la aparición de nuevos *solvers* de optimización que logran obtener la solución óptima a un problema con mayor rapidez y fiabilidad. Esto permite explorar el uso de modelos de programación lineal entera para resolver el problema de la planificación de tareas en sistemas de tiempo real crítico.

El objetivo del proyecto es desarrollar el modelo matemático e implementar la solución con dos de las herramientas de optimización más utilizadas, lo cual además servirá para comparar estas dos herramientas en términos de tiempo y calidad de la solución.

Resum

En els sistemes de temps real crític no poden produir-se errors, ja que estos es consideren catastròfics. Des del punt de vista dels requisits temporals, això vol dir que cap tasca pot perdre el seu termini. Per tant, és molt important desenvolupar tècniques de planificació que produïsquen plans d'execució correctes.

Durant els últims anys, les tècniques d'optimització matemàtica com la programació lineal sencera han millorat amb l'aparició de nous *solvers* d'optimització que obtenen la solució òptima a un problema amb major rapidesa i fiabilitat. Esta millora permet explorar l'ús de models de programació lineal sencera per resoldre el problema de la planificació de tasques en sistemes de temps real crític.

L'objectiu del projecte és desenvolupar el model matemàtic i implementar la solució amb dues de les eines d'optimització més utilitzades, la qual cosa a més servirà per a comparar aquestes dues eines en termes de temps i qualitat de la solució.

Abstract

In critical real-time systems, errors cannot occur as they are considered catastrophic. From the point of view of the temporal requirements, this means that no task can lose its deadline. Therefore, it is very important to develop scheduling techniques that produce correct execution plans.

In recent years, mathematical optimization techniques such as Integer Linear Programming (ILP) have improved with the emergence of new optimization solvers that achieve the optimal solution to a problem more quickly and reliably. This allows to explore the use of linear integer programming models to solve the problem of task scheduling in critical real time systems.

The objective of the project is to develop the mathematical model and implement the solution with two of the most used optimization tools, which will also serve to compare these two tools in terms of time and quality of the solution.

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DOCUMENTO I: MEMORIA

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1. Objeto del proyecto

1.1 Motivación

Personalmente, la motivación que propulsa la redacción de este trabajo es principalmente la puesta en práctica de los conocimientos adquiridos a lo largo de la carrera, especialmente los relacionados con las asignaturas de la mención informática, las que más interés me han despertado a lo largo del grado. Los sistemas de tiempo real son un campo muy profundo, interesante y con muchas y aplicaciones dentro de los campos de la ingeniería, y esta me parece una gran oportunidad para ampliar mis conocimientos.

Por otra parte, es interesante poder sentir, por pequeño que sea, un atisbo de como es el desarrollo aplicado a la investigación, salir un poco del esquema de los proyectos que se han realizado a lo largo del curso y aprender a trabajar con un nuevo enfoque, donde no hay tantas pautas marcadas ni se desarrollan ni aplican los conocimientos de igual forma.

Por último, quedan como motivaciones del proyecto el ayudar en la toma de decisiones de quien necesite una comparativa de las opciones presentadas en este proyecto, presentando para ello la información recabada de forma comparativa y accesible.

1.2 Objetivos

El objetivo principal de este Trabajo de Fin de Grado es el desarrollo de una aplicación, escrita en código Python, que sirva de planificador de sistemas de tiempo real utilizando los *solvers* Gurobi e IBM CPLEX; para poder realizar luego una comparativa de rendimiento entre ambos programas a la hora de resolver problemas de tiempo real crítico, en aplicaciones monoprocesador, usando técnicas de programación lineal entera mixta (MILP), las cuales están normalmente reservadas para aplicaciones multiprocesador, ya que las aplicaciones basadas en heurística suelen ser más que competentes en monoprocesador.

Los objetivos específicos del proyecto son los siguientes:

- Formular un modelo de programación lineal entera mixta para planificación monoprocesador utilizando el lenguaje de programación Python y los *solvers* IBM CPLEX y Gurobi.
- Evaluar la capacidad del modelo para resolver distintos escenarios.
- Comparar ambos solvers para saber cual da una solución mejor en el menor tiempo posible.
- Plasmar la capacidad de resolución de problemas de la solución aportada, así como los resultados, de una forma clara, visible y comprensible para el público aún sin tener conocimientos técnicos del campo en cuestión.

1.3 Estructura

El documento está dividido en varios capítulos bien diferenciados, indicados a continuación:

1. Objeto del proyecto: este capítulo.
2. Estudio de necesidades, factores a considerar: limitaciones y condicionantes.
3. Planteamiento de soluciones alternativas y justificación de la solución adoptada.
4. Descripción detallada de la solución adoptada.
5. Justificación detallada de los elementos o componentes de la solución adoptada (cálculo y dimensionamiento).
6. Resultados.
7. Presupuesto.
8. Conclusiones y futuros campos de desarrollo.
9. Bibliografía.

2. Estudio de necesidades, factores a considerar: limitaciones y condicionantes.

2.1 Sistemas de tiempo real

Un sistema de tiempo real (STR) es aquel en el que es tan importante el valor de la respuesta que se genera tanto como que esta se genere en un plazo determinado, ya que obtener la respuesta fuera de plazo puede ser más perjudicial que obtener un valor más impreciso dentro del plazo [1].

Podría darse como ejemplo de la importancia en los sistemas de tiempo real del requisito temporal el caso de una línea de producción automatizada mediante el uso de diversos brazos robóticos. El computador encargado de su control debe tener plena consciencia en todo momento del entorno de producción, las posiciones de los todos los brazos y moverlos en consonancia. En caso de no mover alguno a tiempo, o que uno no se detuviera en el instante necesario podrían darse casos de colisiones y golpes, lo que podría llevar a daños materiales o incluso personales.

No se da el mismo nivel de criticidad en cada aplicación de tiempo real. Por ejemplo, en aplicaciones multimedia el incumplimiento de requisitos temporales podría llevar a una bajada de calidad del vídeo por la pérdida de algún fotograma, pero nada más grave. En cambio, en el sistema de frenado de emergencia de un tren un retraso en el cómputo y aplicación de resultados podría desembocar un accidente, con consecuencias desastrosas e irrecuperables. Al conjunto de sistemas en los que un resultado retrasado es un fallo crítico se le denominan Sistemas de Tiempo Real Críticos.

Desde el punto de vista del número de procesadores y su arquitectura, distinguimos dos tipos de sistemas de tiempo real:

- **Sistemas monoprocesadores:** están formados por un único procesador, el cual es el encargado de realizar todas las actividades.
- **Sistemas multiprocesadores:** están formados por varios procesadores interconectados, de forma que se alcanza un estado global en el sistema sin problemas. La comunicación entre las tareas situadas en diferentes procesadores se lleva cabo normalmente mediante memorias compartidas, buses de datos o similares.

2.2 Caracterización del modelo temporal

Computacionalmente, el trabajo que llevan a cabo los sistemas de tiempo real se divide en diversas unidades, ejecutas de forma concurrente, a las que denominamos tareas. Las tareas pueden consistir en mensajes transmitidos por una red de computaciones, la adquisición de datos mediante un sensor, el accionamiento de un actuador, una serie de actividades ejecutadas en un procesador, etc.

Podemos clasificar las tareas de tiempo real de diversas formas en función de las características que se tengan en cuenta:

- **En función de su forma de ejecución,** las tareas pueden ser expulsivas o no expulsivas. Una tarea expulsiva es aquella cuya ejecución puede ser interrumpida por otras tareas

y reanudada en otro momento, mientras que una no expulsiva debe ejecutarse en su totalidad sin ninguna interrupción.

- **En función de las consecuencias** que puedan aparecer si se produce un fallo, se distingue entre tareas críticas y no críticas. En las primeras un fallo lleva a consecuencias catastróficas y debe evitarse a toda costa, mientras que las no críticas están reservadas a tareas auxiliares, mantenimiento, monitorización, y no suelen provocar tantos problemas en caso de fallo.
- **En función de sus características temporales**, se diferencia entre tareas periódicas y aperiódicas. Las tareas periódicas deben repetirse en intervalos constantes de tiempo, mientras que las aperiódicas pueden ejecutarse en instantes de tiempo impredecibles, como puedan ser las generadas por la activación de una alarma. En este trabajo nos centraremos en tareas periódicas, principalmente.

Las tareas periódicas de tiempo real (τ_i) se encuentran caracterizadas por los siguientes parámetros:

- **Tiempo de cómputo (C_i)**. Es el tiempo que se tarda en ejecutar las acciones asignadas. En los sistemas de tiempo real críticos este parámetro se conoce como peor tiempo de respuesta (WCET).
- **Tiempo de respuesta (R_i)**. Es el tiempo transcurrido desde que se activa la tarea hasta que esta acaba de ejecutarse por completo.
- **Plazo de entrega (D_i)**. Es el instante de tiempo en el cual la activación de la tarea debe haber terminado. Se consideran planificables las activaciones que se terminan de ejecutar antes del plazo, al igual que se consideran planificables los sistemas en los que se cumple esta condición para todas las tareas. Se utiliza d_{iai} para referirse al plazo de una tarea en una activación concreta.
- **Período (T_i)**. Es el tiempo que separa cada una de las activaciones de una tarea periódica, a partir del cual se repite cada activación. Como norma general se da en los sistemas de tiempo real que $D_i \leq T_i$.
- **Activaciones (a_i)**. Una activación de una tarea corresponde a cada una de las instancias de las tareas, tanto periódicas como aperiódicas. En el caso de las tareas periódicas, se produce una activación en cada período.
- **Número de activaciones (N_i)**. Es el número de veces que se activa cada tarea a lo largo de la ejecución de su conjunto, dentro del hiperperíodo. Se puede calcular dividiendo este entre el período de la tarea en cuestión (lcm/T_i)

Con la siguiente figura se explican los parámetros anteriores:

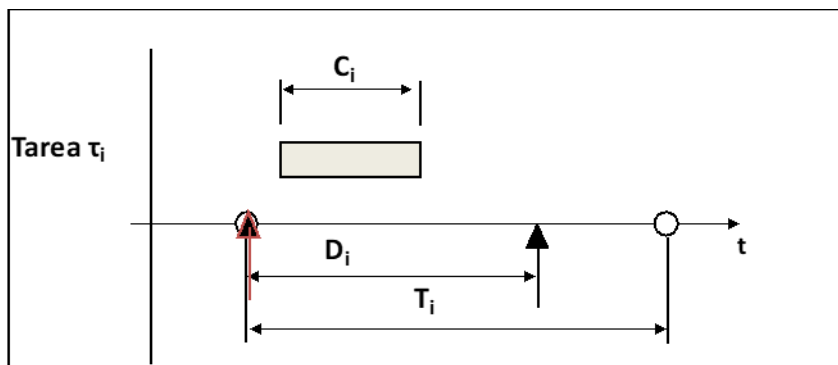


Figura 1. Parámetros de las tareas

A parte, destacamos el hiperperíodo, **lcm** (*least common multiple*), en cada conjunto de tareas. Es el mínimo común múltiple de los períodos de todas las tareas de un conjunto, instante a partir del cual se repite el orden de activación de las tareas.

2.3 Políticas de planificación de sistemas de tiempo real

Estas actividades concurrentes se ejecutan de acuerdo al orden que se haya establecido mediante un algoritmo, el cual se implementa en el módulo conocido como planificador. Por tanto, el planificador es el encargado de definir qué actividades deben ejecutarse en cada momento, en base a un criterio conocido como política de planificador.

Al igual que las tareas, los planificadores se pueden definir como expulsivos y no expulsivos [2]:

- Por un lado existen los **planificadores expulsivos**, en los que la decisión de planificación puede ocurrir a cada instante en el que se active una tarea, se complete su ejecución o en algún intervalo regular marcado por un reloj. Con este tipo de planificación es seguro que, menos en situaciones en las que alguna tarea no pueda ser expulsada, esté siempre ejecutándose la tarea de mayor prioridad entre todas las activas.
- Por otro lado están los **planificadores no expulsivos**, en los que el momento de decisión de la planificación se da cuando las tareas finalizan su ejecución. Por consiguiente, una tarea no detendrá su ejecución después de haber comenzado hasta que sea finalizada, aunque haya otras tareas de mayor prioridad activas y a la espera de ser ejecutadas.

2.3.1 Algoritmos de planificación dinámicos

En estos algoritmos, la planificación se lleva a cabo durante la misma ejecución las tareas se ejecutan como respuesta a la llegada de un evento. La llegada de uno provoca la activación de una o varias tareas, que pasan a conocerse como activadas; una tarea solo puede ser ejecutada después de pasar a estar activada. El planificador debe de decidir en tiempo de ejecución qué tarea de entre las activas debe ser ejecutada en cada momento. Por tanto, este esquema de ejecución corresponde con un tipo de planificación online, ya que se planifica en tiempo de ejecución.

Los eventos representan los estímulos entrantes en el sistema, los cuales necesitan ser respondidos. Su origen puede ser periódico, como pueda ser la señal de un reloj digital, o no periódico, como la entrada de un sensor o la pulsación de un interruptor.

En estos sistemas, el mecanismo de planificación más usado es el establecimiento del orden de ejecución en función del valor asignado a la prioridad de cada tarea. En cada instante que el planificador actúe, este seleccionará la tarea con mayor prioridad de todas las activas para ser ejecutada. Conocemos estos algoritmos como dinámicos por prioridades.

El orden concreto en que las tareas van a ser ejecutadas, y por consiguiente su tiempo de respuesta, se desconoce hasta la puesta en marcha del sistema. Por tanto, salvo para sistemas muy sencillos, es imposible determinar los tiempos de respuesta de las tareas en el peor caso. Para garantizar el cumplimiento de todos los plazos existen técnicas analíticas basadas en la utilización del sistema. Si un análisis de planificabilidad dictamina que un sistema es planificable,

garantiza que todas las tareas tendrán tiempo de respuesta menor a su plazo en el peor de los casos.

La principal ventaja de estos sistema es su flexibilidad, ya que cualquier cambio implica solamente un nuevo análisis de planificabilidad para comprobar que el sistema siga siendo planificable [3] . En cambio, su mayor desventaja yace en la mayor complejidad a la hora de implementar un planificador online en comparación con el planificador que se pueda aplicar a los planificadores estáticos.

Dentro de los algoritmos dinámicos podemos distinguir entre prioridades fijas y dinámicas dependiendo de si las tareas mantienen su prioridad a lo largo de toda la ejecución, en el caso de las fijas, o esta va cambiando según se va desarrollando la ejecución, para el caso de las dinámicas.

Dentro de los planificadores por prioridades fijas los ms conocidos son el RM (*Rate Monotonic*) [4], que asigna la mayor prioridad a la tarea con el período más corto, y el DM (*Deadline Monotonic*) [5], donde la tarea más prioritaria es la que tiene el menor plazo. Respecto a prioridades dinámicas, los algoritmos más ampliamente estudiados son el EDF (*Earliest Deadline First*) [4], que prioriza según el plazo absoluto y el LLF (*Least Laxity First*) [6], que asigna la mayor prioridad a la tarea con menor holgura.

2.3.2 Planificadores estáticos

En la ejecución de los sistemas de tiempo real organizados mediante un planificador estático, cada tarea se ejecuta en un instante de tiempo definido previamente. Por norma general, la planificación se lleva a cabo mediante una tabla, calculada de antemano, en la que se especifican los instantes de tiempo en los que debe ser ejecutada cada una de las actividades del sistema, de forma que todas las tareas cumplan sus plazos siempre y cuando el sistema sea planificable. Dado que el orden en el que todas las tareas van a ser ejecutadas está decidido de forma previa, se considera como un paradigma de planificación *offline*.

La principal ventaja de estos es que poseen un comportamiento único y determinista, definido en su totalidad por la tabla de planificación; es decir, la determinación del cumplimiento de todos los plazos viene implícita en la planificación. Otra ventaja es; dado que una vez el sistema ha entrado en funcionamiento la política de planificación pasa a ser de una complejidad muy reducida, ya que consiste simplemente en despachar las actividades según la tabla; el coste computacional en tiempo de ejecución es menor al de otros planificadores

El caso más utilizado es el de los ejecutivos **cíclicos**, en los que se define una única actividad periódica en la que se ejecutan de manera secuencial todas las acciones que se deseen realizar. Es el usado para el desarrollo de este proyecto, ya que en los sistemas de tiempo real crítico el plan debe venir definido de antemano. [7]

2.4 Programación lineal

Se entiende como planificación lineal al conjunto de técnicas matemáticas dedicadas a optimizar una función lineal, llamada función objetivo, mediante el uso de una serie de ecuaciones lineales que aplican restricciones a las variables de decisión, de cuyos valores depende el de la función objetivo.

Para definir un problema de programación lineal es necesario definir sus variables de decisión, su función objetivo y sus restricciones:

- Las **variables de decisión** son factores que pueden tomar diversos valores, y estos afectar al resultado de la función objetivo. Se tiene control sobre ellos, y deben cumplir la condición de no negatividad:

$$X_i \in R \quad (1)$$

$$X_i \geq 0 \quad \forall i \quad (2)$$

- La **función objetivo** es aquella cuyo valor se quiere optimizar, y que depende de las variables de decisión. Se define como:

$$z = \sum_{i=1}^N c_i \cdot X_i \quad (3)$$

Donde c_i es el coeficiente que acompaña a la variable de decisión.

- Las **restricciones** son todo lo que limita los valores que puedan tomar las variables de decisión. Pueden aparecer representadas como inecuaciones o ecuaciones:

$$\sum_{i=1}^N b_{i,j} \cdot X_i \leq B_j \quad \forall j \quad (4)$$

Donde j es el número de restricciones que existen; $b_{i,j}$ el coeficiente técnico que acompaña a la variable X_i en la restricción j ; y los términos B_j los correspondientes al vector de disponibilidades.

Se puede dar el caso en ciertos problemas de que una o varias variables de decisión hayan de ser enteras. En ese caso pasa a hablarse de Programación Lineal Entera. Existen varios tipos de programación lineal entera, en función de las distintas variables que se empleen:

- **Programación Lineal Entera Pura (IP)**, donde todas las variables han de ser enteras.
- **Programación Lineal Binaria (BIP)**, donde las variables solo pueden tomar los valores 0 y 1.
- **Programación Lineal Entera Mixta (MILP)**, donde existen variables que pueden tomar valores reales y otras que solo pueden tomarlos enteros. Se dan estas dos condiciones:

$$X_i \in R \quad (5)$$

$$X_j \in Z \quad (6)$$

Este ha sido el tipo de programación lineal usado durante el desarrollo del proyecto, dada la necesidad de computar usando variables binarias y reales.

3. Planteamiento de soluciones alternativas y justificación de la solución adoptada.

3.1 Planificadores cíclicos

3.1.1 Definición

Como se ha indicado en el capítulo anterior, los planificadores cíclicos son aquellos en los que se ejecutan las tareas siguiendo un plan de ejecución, el cual ha sido diseñado a partir del conjunto de tareas y sus restricciones temporales previo a la puesta en marcha del sistema.

Se considera planificador cíclico [8] al procedimiento iterativo que permite la planificación de un conjunto de tareas periódicas en un procesador. La planificación se hace de forma determinista con tal de que los tiempos de ejecución sean predecibles.

Como base necesaria antes de empezar la planificación, se le suponen una serie de premisas al conjunto de tareas a analizar: que exista un número de tareas que permanezca constante durante toda la vida del sistema; que los parámetros de todas las tareas sean conocidos; que cada activación esté lista para ser ejecutada a partir de su tiempo de ejecución; y que exista un único procesador en el sistema.

3.1.2 Planificación

Partiendo del conjunto de tareas y sus requisitos temporales se construye un plan principal, es decir, la secuencia de tareas que deben ejecutarse durante un período fijo de tiempo, denominado ciclo principal. Este, a su vez, se divide en uno o más planes secundarios, que describen la secuencia de tareas que deben ejecutarse durante un período de tiempo fijo denominado ciclo secundario. Por norma general, los planes secundarios de un mismo plan principal contendrán secuencias de distintas tareas, dependiendo de sus características temporales.

El momento en que un ciclo secundario finaliza y empieza el siguiente es sincronizado mediante los impulsos producidos por el reloj de ciclo secundario. Esta sincronización garantiza que se cumplan todos los requisitos temporales de las tareas. Cada impulso del reloj implica el fin de un ciclo secundario, por tanto, con cada uno debe haber acabado la ejecución de la secuencia de las tareas correspondiente al ciclo dado.

Cada plan secundario está dividido, por su parte, en uno o más marcos. Dentro de cada marco se ejecuta una tarea de la secuencia correspondiente al plan secundario. La duración de estos marcos puede ser controlada mediante un temporizador, que se active al iniciar la ejecución y se desactive tan pronto como esta acabe. Por consiguiente, los marcos tienen una duración variable, dependiendo del tiempo de cómputo de las tareas.

El problema de encontrar una planificación admisible es NP-completo [9], por lo que el único procedimiento tanto como para encontrarla como para corroborar que no existe es mediante una búsqueda en profundidad.

La secuencia de procesos correspondiente a cada ciclo secundario y la secuencia de planes correspondiente al plan principal, así como la duración de los marcos, ciclos secundarios y ciclo

principal se reflejan en tablas que definen cada plan, y son las que utiliza el planificador cíclico para llevar a cabo la planificación.

3.1.3 Diseño

A la hora de diseñar el plan, se deberán seguir los siguientes pasos:

1. Determinación de la utilización (U) del sistema.
2. Determinación del ciclo principal (T_p).
3. Determinación del ciclo secundario (T_s).
4. Planificación de las actividades de cada ciclo secundario.

La utilización es, para un conjunto de tareas periódicas, la fracción de tiempo de procesador gastada en su ejecución. La fracción de tiempo gastada en la ejecución de una tarea τ_i puede calcularse como C_i/T_i , por lo que el factor total de un conjunto de n tareas se calcula como:

$$U = \sum_{i=1}^n \frac{C_i}{T_i} \quad (7)$$

Este factor provee una medida de la carga computacional sobre el procesador. Por lo tanto, dependiendo del algoritmo usado para la planificación, hay unos valores de U que no pueden excederse. En caso de los planificadores cíclicos, el factor de utilización ha de ser menor o igual que 1, es decir:

$$U \leq 1 \quad (8)$$

La duración del ciclo principal equivale a la del mínimo común múltiplo de los períodos de las tareas, el hiperperíodo que se ha descrito anteriormente:

$$T_p = lcm \quad (9)$$

A la hora de calcular el ciclo secundario, es necesario aplicar las siguientes restricciones:

1. La duración del ciclo secundario ha de ser menor o igual que el plazo de ejecución de cualquier tarea:

$$\forall i: T_s \leq D_i \quad (10)$$

Con esta ecuación se verifica que entre el instante de activación de cada tarea y su plazo haya cabida para un ciclo secundario completo.

2. El ciclo secundario ha de ser igual o mayor que el máximo tiempo de cómputo de las tareas:

$$T_s \geq \max(C_i) \quad (11)$$

Dicho de otra forma, cada tarea debe ejecutarse completamente en un ciclo secundario.

3. El ciclo secundario debe dividir de forma exacta al ciclo principal:

$$\exists k: T_p = k \cdot T_s \quad (12)$$

Ya que T_p equivale al mínimo común múltiplo de alguna tarea, esta condición se cumple si T_s divide de forma exacta el período de alguna tarea:

$$\exists i, k: T_i = k \cdot T_s \quad (13)$$

4. Como última condición, el ciclo secundario debe cumplir:

$$\forall i: T_s + (T_s - \text{mdc}(T_s, T_i)) \leq D_i \quad (14)$$

Esta condición es necesaria para que entre el instante de activación de cada tarea y su plazo pueda haber un ciclo secundario completo. Gracias a esto, se establece una duración del T_s que permite garantizar la periodicidad de las tareas, así como detectar posibles pérdidas.

Dado que el problema de encontrar una planificación admisible es NP-Completo, y, por tanto, no se conocen algoritmos eficientes para solucionarlo de forma general. Por tanto, en el peor de los casos se debe iterar por todas las posibles soluciones hasta encontrar una planificación admisible para el conjunto de tareas, o para corroborar que esta no existe. Debido a la complejidad del espacio de soluciones, existen reglas heurísticas que pueden ayudar a obtener las soluciones con menor complejidad.

A la hora de elegir la tarea a incluir, se puede optar por los siguientes criterios:

1. Añadir la tarea con el plazo de ejecución más corto entre los restantes. Este criterio se forma en base al método de planificación Deadline Monotonic.
2. Añadir la tarea restante con el período más corto. Este se basa en el método Rate Monotonic.
3. Elegir la tarea con el mayor tiempo de cómputo entre las restantes, basado en el Largest Processing Time.

Estos tres criterios seleccionan primero las tareas con más difíciles de integrar en la planificación, con la intención de alcanzar la solución de una forma más rápida y eficiente que eligiendo las tareas de forma arbitraria.

A la hora de elegir un ciclo secundario donde incluir las ejecuciones también podemos aplicar aproximaciones heurísticas. En este caso destacan las siguientes:

1. Insertar la tarea en el primer ciclo secundario en el que quede un tiempo de cómputo mayor o igual al tiempo máximo de la tarea.
2. Insertarla en el ciclo en el que quede el menor tiempo de cómputo libre y se garanticen los requisitos temporales.

Si conocemos el número de ciclos temporales, se puede optar también por una tercera:

3. Insertar la tarea en el último ciclo secundario en el que queda y se garanticen sus requisitos.

3.1.4 Ejemplo

Como ejemplo, se procede a calcular la planificación de un conjunto de tareas compuesto por las siguientes:

Tarea	C	T	D
t ₁	10	40	40
t ₂	18	50	50
t ₃	10	200	200
t ₄	20	200	200

Tabla 1. Tarea de ejemplo

Como primer paso se calcula la utilización:

$$U = \frac{C_1}{T_1} + \frac{C_2}{T_2} + \frac{C_3}{T_3} + \frac{C_4}{T_4} = \frac{10}{40} + \frac{18}{50} + \frac{10}{200} + \frac{20}{200} = 0.76 \quad (15)$$

Dado que es menor que 1, se puede continuar con la planificación.

Como paso siguiente se calcula el hiperperíodo:

$$lcm = mcm(40,50,200) = 200 \quad (16)$$

A continuación se pasa a comprobar los criterios temporales para la selección del período secundario. Empezamos por que el período secundario ha de ser igual o mayor al mayor tiempo de cómputo:

$$T_s \geq 20 \quad (17)$$

Ahora que el ciclo secundario sea divisor exacto del principal:

$$T_s \in \{20,25,40,50,100,200\} \quad (18)$$

Por último, se comprueba que pueda haber un ciclo secundario entre el instante de activación de cada tarea y su plazo. Se supone inicialmente que $T_s=20$:

$$t_1 = T_s + (T_s - mcd(T_s, T_1)) \leq D_1 \rightarrow 40 - mcd(20,40) \leq 40 \rightarrow 20 \leq 40OK \quad (19)$$

$$t_2 = T_s + (T_s - mcd(T_s, T_2)) \leq D_2 \rightarrow 40 - mcd(20,50) \leq 50 \rightarrow 30 \leq 50OK \quad (20)$$

$$t_3, t_4 = T_s + (T_s - mcd(T_s, T_3)) \leq D_3 \rightarrow 40 - mcd(20,200) \leq 200 \rightarrow 20 \leq 200OK \quad (21)$$

Dado que se cumplen todas las condiciones, se puede realizar la planificación con $T_s=20$:

En la siguiente imagen podemos ver representada la planificación ya calculada, con cada bloque representando la ejecución de su tarea correspondiente, representado sobre el eje temporal:

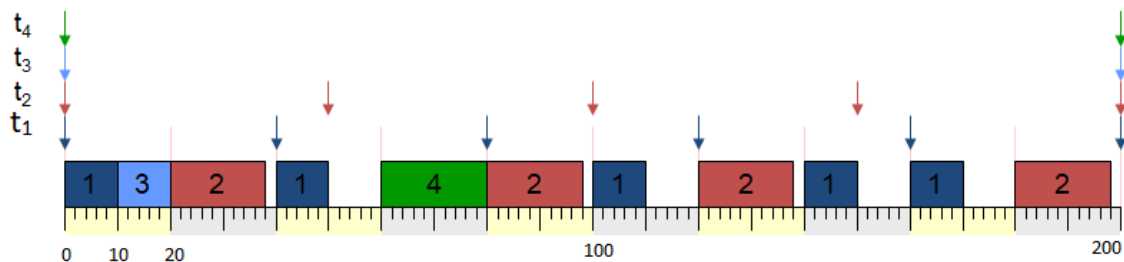


Figura 2. Planificación de las tareas

3.2 Soluciones alternativas

Recientemente, se ha empezado a utilizar técnicas para planificar diferentes a las más usadas habitualmente (como la planificación cíclica, la planificación por prioridades, etc). Uno de los más interesantes y con rango de opciones más amplio es la programación lineal entera. Sobre las aplicaciones de este método en la resolución de problemas de sistemas de tiempo real se han publicado gran variedad de artículos científicos en los tiempos más recientes.

El método de búsqueda tabú para el problema de optimización booleana se compara en Hvattum et al. [11]. Para este problema específico, Gurobi es el *solver* más rápido, y da unos resultados ligeramente mejores a los de CPLEX. CPLEX es un poco más rápido que Gurobi en términos de otorgar la solución óptima.

Los trabajos que obtienen planificaciones factibles con técnicas de programación lineal entera en modelos complejos de tiempo real incluyen, entre otros, sistemas multiprocesadores [12], optimización de consumo energético [13], consideraciones de arquitecturas con instrucciones locales o caché de datos [14], criticalidad mezclada [15], etc.

Más específicamente, con respecto al uso de la programación lineal entera en sistemas de tiempo real en Zhang et al. [16] se usa CPLEX para solucionar la planificación de tareas de tiempo real periódicas con duplicación en multiprocesador heterogéneo. En Rouxel et al. [17], las tareas se separan en subtareas de leer, ejecutar y escribir con la intención de reducir el retraso por contención en sistemas de tiempo real crítico multiprocesador, también usando CPLEX.

Respecto al uso de la programación lineal entera en sistemas de tiempo real con Gurobi, este solver se usa para generar planificadores de comunicación en Azim et al. [18]. En Nguyen et al. [14], Gurobi se usa para obtener una planificación que tenga en cuenta el efecto del caché en el peor tiempo de respuesta, para que la duración de la planificación se vea significativamente reducida.

4. Descripción detallada de la solución adoptada

En la siguiente tabla se introducen los diferentes índices, parámetros y variables usadas en el modelo:

Índices y Conjuntos	
i	Tareas $\tau_i \in \{1, 2, \dots, n\}$
a_i	Activaciones de $\tau_i \in \{1, 2, \dots, N_i\}$
Parámetros	
C_i	Peor tiempo de cómputo para τ_i
D_i	Plazo relativo de τ_i
T_i	Período de τ_i
lcm	Hiperperíodo del conjunto de tareas
N_i	Número de activaciones de $\tau_i (lcm/T_i)$
d_{ia_i}	Plazo de τ_i en la activación a_i
R_{ia_i}	$[a_i \cdot T_i, (a_i + 1) \cdot T_i]$ Posible intervalo de tiempo de ejecución para la tarea i en la activación a_i
Variables de decisión	
x_i	Matriz de ejecución de tareas. 1 si τ_i se ejecuta en el instante t y 0 en cualquier otro caso
ω_{ia_i}	Matriz de tiempo de respuesta. Tiempo de respuesta de τ_i en la activación a_i

Tabla 2. Índices, parámetros y variables del modelo

De acuerdo al planteamiento del problema, la función objetivo se define a continuación, que es minimizar el tiempo de respuesta total para todas las tareas en toda la ejecución del sistema.

$$\min Obj = \sum_{\forall(i,a_i)} \frac{\omega_{ia_i}}{D_i} \quad (22)$$

s.t:

$$\sum_{t \in R_{ia_i}} x_{it} = C_i \quad \forall i, a_i \quad (23)$$

$$t \cdot x_{it} \leq d_{ia_i} - 1 \quad \forall t \in R_{ia_i} \quad (24)$$

$$\sum_i x_{it} \leq 1 \quad \forall t \in \{0, 1, \dots, lcm\} \quad (25)$$

$$\omega_{ia_i} \geq t \cdot x_{it} - a_i \cdot T_i + 1 \quad \forall t, i, a_i \quad (26)$$

$$x_{it} \in \{0, 1\} \quad (27)$$

$$\omega_{ia_i} \geq 0 \quad (28)$$

Las restricciones (23), (24) y (25) son las restricciones clave y las condiciones de planificación básicas. La restricción (23) asegura que la tarea completa todos sus tiempos de ejecución. La restricción (24) asegura los requisitos de tiempo real, en el sentido de que las tareas deben acabar antes de la llegada de sus plazos. La restricción (25) asegura que solo una tarea se ejecuta en cada instante de tiempo. La restricción (26) calcula el tiempo de respuesta de cada activación para todas las tareas. Las ecuaciones (27) y (28) representan los dominios de variables de decisión.

5. Justificación detallada de los elementos de la solución adoptada.

En este capítulo se repasan las herramientas usadas a lo largo del desarrollo del proyecto, revisando sus funcionalidades y en qué han sido aplicadas. También se concluye con la implementación y funcionamiento del programa desarrollado.

5.1 Lenguaje de programación

5.1.1 Python



Figura 3. Logo de Python

Python es el lenguaje de programación escogido para el desarrollo de este proyecto. Se trata de un lenguaje de programación interpretado, de código abierto, alto nivel y multipropósito; disponible en múltiples sistemas operativos, poco complejo y sencillo de entender [19].

Es parte de la filosofía del lenguaje la importancia de que el código sea fácilmente legible, así como que cuente con un acceso simple y que su aprendizaje sea muy accesible.

De hecho, a pesar de no haber cursado ninguna asignatura donde se enseñara y ser esta la primera toma de contacto del alumno con el lenguaje, no ha aparecido ningún problema mayor ni que no fuera fácilmente solucionable relacionado con el código. Este ha sido el mayor motivo de su elección frente a otros que también se llegaron a probar y resultaron bastante más complejos para el diseño que se quería llevar a cabo, como C; a parte de su fácil implementación con Gurobi y CPLEX.

5.1.2 Librerías

5.1.2.1 NumPy



Figura 4. Logo de Numpy

NumPy es uno de los paquetes fundamentales de computación científica en Python. Se trata de una librería que provee un objeto vector multidimensional, varios objetos derivados y una colección de rutinas para realizar rápidamente operaciones con vectores [20].

Las principales diferencias entre los vectores de NumPy y las secuencias estándar de Python son:

- Los vectores de NumPy tienen un tamaño de creación fijo, a diferencia de las listas de Python, que pueden crecer dinámicamente.
- Todos los elementos en un vector de NumPy deben ser del mismo tipo de datos.
- Los vectores de NumPy facilitan operaciones matemáticas avanzadas y otros tipos de operación en grupos de datos de gran tamaño.

5.1.2.2 Pandas



Figura 5. Logo de Pandas

Pandas es una librería para manipulación de datos y análisis. Ofrece principalmente estructuras de datos y operaciones para manipular tablas numéricas y series temporales [21]. Las principales características que ofrece la biblioteca son:

- Herramientas para leer y escribir datos entre estructuras de datos en memoria y formatos de archivos variados.
- Alineación de dato y manejo integrado de datos faltantes.
- Reestructuración y segmentación de conjuntos de datos.
- Segmentación vertical basada en etiquetas, indexación elegante y segmentación horizontal de grandes conjuntos de datos.
- Inserción y eliminación de columnas en estructuras de datos.

- Mezcla y unión de datos.

5.1.2.3 Os

El módulo OS de Python provee funciones para interactuar con el sistema operativo [22]. En el desarrollo del proyecto se ha usado sobre todo para manejar e indicar directorios necesarios para la adquisición de datos. OS forma parte de las librerías estándar de Python. En el caso del proyecto ha sido especialmente útil para introducir y manipular directorios de datos de forma fácil y directa.

5.1.2.4 Time

Time, también parte de las librerías estándar de Python, provee al usuario de gran variedad de funciones útiles para medir e interactuar con el tiempo. Durante el desarrollo del proyecto ha sido útil sobre todo para realizar mediciones.

5.1.2.5 Sys

Sys es un módulo que proporciona acceso a varias variables usadas o mantenidas por el intérprete, y a funciones que interactúan directamente con el intérprete. Está siempre disponible como librería estándar de Python.

5.1.2.6 Csv

El formato CSV (Comma Separated Values) es el más común a la hora de importar y exportar valores de bases de datos y hojas de cálculo. Este módulo implementa clases para leer y escribir datos en forma de tabla en formato CSV.

El formato CSV destaca por ser usado para intercambiar y convertir datos entre diferentes programas de hojas de cálculo

5.1 Hardware

El único hardware que ha sido necesario emplear para la realización de este proyecto ha sido el ordenador personal del alumno, ordenador portátil de la marca Acer, modelo Aspire V 15. Sí que es cierto que a pesar de sus competentes características (memoria RAM de 16 GB DDR4, dos procesadores Intel Core i7-6700HQ 2.6 GHz, tarjeta gráfica NVIDIA GeForce GTX 950M con 2gb de VRAM) en más de una ocasión se ha quedado corto de capacidad a la hora de completar varios procesos de computación.

Esto ha conllevado a errores del sistema, la mayoría de los cuales desencadenaban en Stop Error (“pantallazo azul”), que por desgracia iba asociado con la pérdida de todo el avance en los procesos que se estuvieran llevando a cabo en ese momento, y que ha supuesto un retraso de semanas en la finalización del proyecto.

5.2 Software

A continuación, se enumerarán las herramientas de software usadas durante el desarrollo del proyecto.

5.2.2 Entornos

Se considera un entorno de programación al programa o conjunto de estos que realizan todas las tareas necesarias para el desarrollo de una aplicación. Este conjunto de tareas se puede definir en:

- **Edición del programa:**

El elemento básico de todo entorno de programación es un editor de texto, es decir, un programa que permita escribir las instrucciones del programa a desarrollar y guardarlo posteriormente en el formato de fichero deseado.

Cualquier editor de texto, por básico que sea, puede ser usado para la edición de programas, siempre que se tenga precaución a la hora de almacenar el texto sin opciones de formato (texto plano) y como el archivo correspondiente.

- **Procesadores del lenguaje:**

Estos programas realizan las acciones para que el nuestro, una vez editado, sea traducido a código máquina, y así pueda ser entendible por el ordenador en orden de ser ejecutado. Hay tres tipos de procesadores que resaltan sobre el resto:

Los compiladores, programas que realizan la conversión de uno escrito en un lenguaje determinado a su equivalente en código máquina. Devuelven como resultado un programa que puede ser ejecutado en el ordenador de destino sin necesidad de volver a tener el compilador presente. C es un ejemplo de lenguaje que necesita ser compilado.

Los intérpretes, programas que convierten línea por línea el código escrito, y a la vez que convierten ejecutan las instrucciones

Los traductores, procesadores que convierten lenguajes de unos a otros, pero no generan código máquina.

- **Enlazadores:**

Es usual dentro de la escritura de un programa el uso de otros subprogramas, bien en forma de bibliotecas de funciones o bien en forma de varios programas almacenados en diferentes ficheros. El papel de los enlazadores es unir en un único fichero ejecutable la salida de todas las compilaciones, así como todas las bibliotecas estáticas. Suele ser habitual que el enlazado forme parte de la compilación y se incluya como último paso de esta.

También es común denominar a cada uno de los ficheros que forman parte del desarrollo del programa con nombres genéricos, con tal de identificar cual es la fase en la que se encuentran. A las instrucciones escritas directamente por el programador y que conforman el programa se denominan como ficheros fuente (*source file*). El

resultado de la compilación se conoce como fichero objeto (*object file*), y el resultado como fichero ejecutable (*executable file*). Para el caso de los lenguajes interpretados el fichero fuente es ejecutado e interpretado directamente por el intérprete.

- **Depuradores:**

Una vez el programa está editado y compilado es necesario ejecutarle, pero se puede dar el caso de que, a pesar que desde el punto de vista sintáctico los ficheros generados sean correctos, estos no se comporten del modo esperado a la hora de la ejecución, debido habitualmente a errores de código. Los depuradores (*debuggers*) ayudan a la localización y corrección de estos errores, dado que ejecutan el programa paso por paso, con lo que se puede analizar el resultado de cada orden y permiten observar en su totalidad los valores de todas las variables y estructuras de datos del mismo.

5.2.2.1 Notepad++



Figura 6. Logo de Notepad++

Notepad++ es un editor de texto de software libre y código abierto para Windows [23]. Está ideado como una ampliación del bloc de notas estándar de Windows, enfocada completamente hacia la programación, y la primera versión data de 2003 (la actual es la 8.1).

Está basado en el componente de edición Scintilla [24], y escrito en C++. Entre la amplia gama de funciones que ofrece, a parte de soporte para una muy gran variedad de lenguajes de programación, destacan las de numeración de líneas, diversos temas y paletas de colores, funciones de autocompletado, buscar y reemplazar, ejecución de macros y hasta la posibilidad de apuntar notas en las pestañas del proyecto que estemos trabajando.

A pesar de que Notepad++ por defecto sea solo un editor de textos (y haya sido esta su función durante el desarrollo del proyecto), existen *plugins* para aumentar sus funcionalidades, con los que es posible compilar y ejecutar código incluso.

5.3.1.2. Anaconda



Figura 7. Logo de Anaconda

Anaconda es una distribución de los lenguajes de programación Python y R para computación científica (ciencia de datos, aplicaciones de aprendizaje máquina, procesamiento de datos a larga escala, análisis predictivo...) que apunta a simplificar la gestión de paquetes [25]. La distribución cuenta con paquetes los sistemas operativos Windows, Linux y MacOS.

A diferencia de otros gestores de paquetes, a la hora de realizar cualquier instalación anaconda primero analiza el entorno actual con todos los paquetes que tenga instalados, con tal de cerciorarse de que no aparezcan problemas de compatibilidad entre paquetes, o buscar un conjunto de dependencias que no comporte estos problemas . Cualquier paquete que se encuentre en el repositorio de anaconda, uno privado o la nube de anaconda (Anaconda Cloud) puede ser instalado desde la consola mediante el comando **conda install**. Alternativamente, anaconda proporciona también una interfaz gráfica para la gestión de aplicaciones y paquetes, Anaconda Navigator.

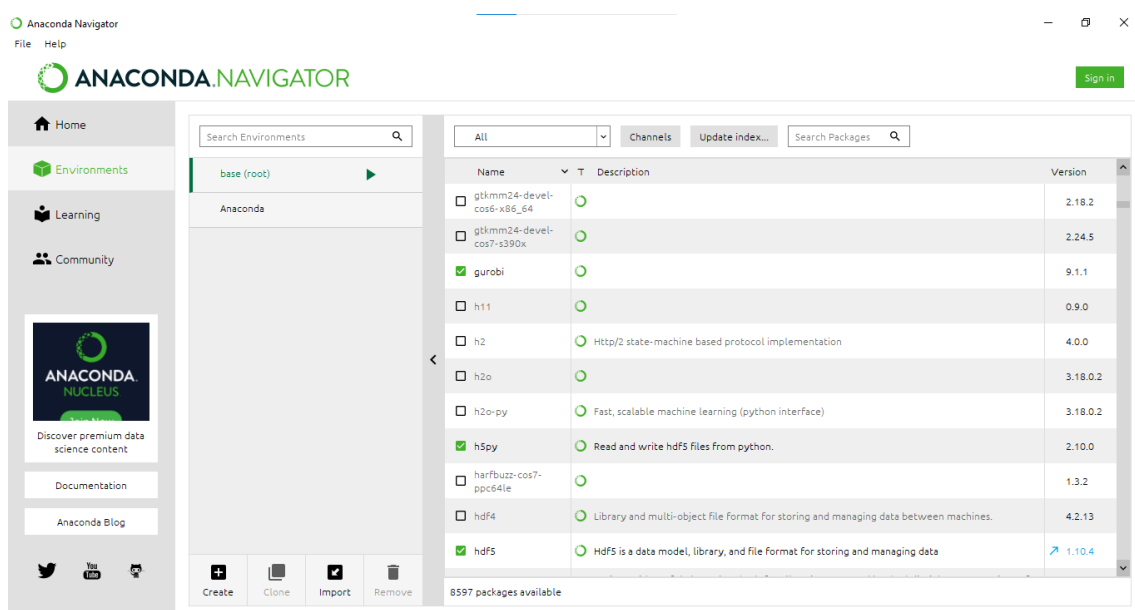


Figura 8. Ventana de instalación de módulos de Anaconda

5.2.3 Solvers

Un *solver* es un software matemático, generalmente en forma de programa de ordenador o librería de software, que se encarga de buscar soluciones para un problema matemático dado después de haberle parametrizado y descrito el problema de forma genérica. En el proyecto se han usado los dos cuyo funcionamiento se quería contrastar: CPLEX y Gurobi.

5.3.3.1 CPLEX

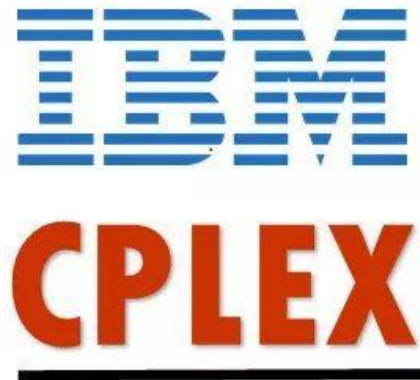


Figura 9. Logo de IBM CPLEX

IBM ILOG CPLEX Optimization Studio (2019) es un conjunto de herramientas desarrollado por IBM para el modelado y la resolución de problemas de optimización, ideado principalmente para la resolución de problemas lineales a gran escala [26]. Está compuesto por:

- **CPLEX Interactive Optimizer**, un programa ejecutable que puede leer un problema interactivamente o de ficheros en ciertos formatos estándar, solucionar el problema y entregar la solución de forma interactiva o en archivos de texto.
- **Concert Technology**, un conjunto de librerías de C++, .Net y Java que ofrecen una API que incluye facilidades de modelado, para permitir al programador encastar optimizadores desarrollados en CPLEX en aplicaciones escritas en los lenguajes enumerados anteriormente
- Una **API de Python**, una aplicación de programación en Python que otorga un total soporte al desarrollo de optimizaciones en ese lenguaje
- El **conector de CPLEX y MATLAB**, que permite al usuario definir los problemas de optimización y resolverlos en MATLAB usando los recursos que MATLAB proporciona o una clase CPLEX dentro del lenguaje de MATLAB.

Durante el desarrollo del proyecto se ha usado la versión 12.9 de CPLEX.

5.3.3.2 Gurobi



Figura 10. Logo de Gurobi

El Gurobi Optimizier Gur (2019) es un *solver* moderno para optimización matemática de problemas tanto como lineales como de otros tipos relacionados [27]. Está escrito en C y disponible en todas las plataformas de computación, así como accesible desde varios lenguajes de programación. A parte, permite el uso sistemas de modelado independientes a la hora de definir y resolver problemas.

Al igual que CPLEX, cuenta con interfaces para programar en C, C++, Matlab y Python. La versión utilizada durante el desarrollo ha sido la 9.02.

5.3 Implementación

En el siguiente capítulo se comentará la implementación completa del código en Python, en sus dos versiones, CPLEX y Gurobi.

5.3.2 Estructura

En el siguiente diagrama se puede observar la estructura que sigue el código, conforme como se va a dividir en este apartado.

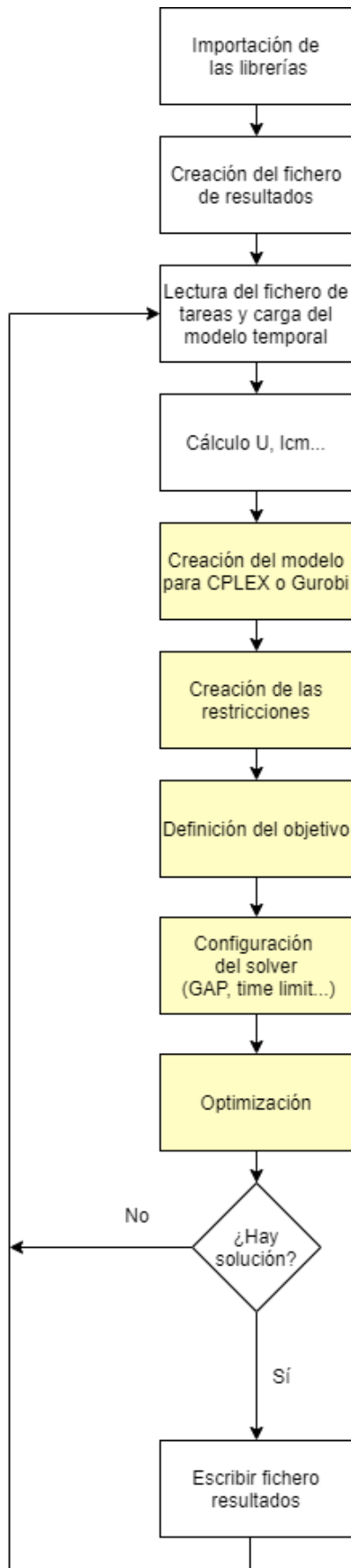


Figura 11. Estructura de la implementación

Por un lado, encontramos de color blanco los módulos afines tanto al programa de CPLEX y al de Gurobi, es decir, los que están escritos únicamente en Python, por lo que no hay diferencia entre las implementaciones. Por otro lado, en amarillo se encuentran los módulos más específicos, que sí incorporan el lenguaje propio de cada *solver*. A continuación se explicará la estructura de cada módulo y su funcionamiento:

5.3.3 Implementación común

En este apartado se describirá el código que es afín a las dos versiones.

5.4.1.1 Importación de las librerías

En primer lugar, se importan los módulos necesarios para la ejecución del programa, enumerados en los apartados anteriores:

```
from docplex.cp.model import *

from functools import reduce
from math import gcd
import numpy as np
import pandas as pd
import os
import glob
import time
import sys
import csv
```

Usando `from ... import *` se importa la totalidad del módulo, en cambio, `from ... import ...` importa solo los paquetes seleccionados del módulo. Si en cambio usamos `import ...` también se importan las librerías en su totalidad, y usando `import ... as ...` le asignamos un nombre para poder llamarla más adelante.

5.4.1.2 Creación del fichero de resultados

A continuación se define el directorio desde donde el programa recogerá los sets, y cercioraremos que no haya un fichero de resultados previo. En caso de que este exista, se eliminará:

```
os_path = r'D:\Marti\Uni\tfg\cplex\Sets'
files = sorted(os.listdir(os_path))
plan_count = 0
if os.path.isfile("results.csv"):
    os.remove("results.csv")
```

En las siguientes líneas se creará el fichero `results.csv`, donde se almacenan los resultados de todas las planificaciones, y se preparará para su posterior uso agregándole la cabecera:

```
csvFile = open('results.csv', 'a', newline='')
with csvFile:
    csvFields = ['Task', 'N', 'H', 'U', 'Time', 'OBJ', 'GAP']
    csvWriter = csv.DictWriter(csvFile, fieldnames = csvFields)
```

```
csvWriter.writeheader()
```

5.4.1.3 Lectura del fichero de tareas y carga del modelo temporal

En las siguientes líneas se crea el bucle principal del programa, en el que se recorrerán todos los conjuntos de tareas que se encuentren en formato csv dentro del directorio indicado anteriormente:

```
for fileIN in sorted(files):  
    if fileIN.endswith(".csv"):
```

Ahora asignamos cada uno de los valores del conjunto de tareas con el que estamos trabajando a una variable para poder referirlo fácilmente:

```
df = pd.read_csv(fileIN, delimiter=';')  
aux = list(df['c'].dropna())  
C = np.asarray(aux) # completion time for each job  
aux = list(df['d'].dropna())  
D = np.asarray(aux) # due date for first activation  
aux = list(df['p'].dropna())  
P = np.asarray(aux) # period for each task  
I = np.arange(len(aux))
```

5.4.1.4 Cálculo U, lcm...

En el siguiente se calcula la utilización del conjunto:

```
#utilization calculation  
U = 0  
for i in range(0, len(aux)):  
    U += C[i]/P[i]
```

A continuación se imprimen tres líneas por consola para marcar el inicio de los cálculos de cada conjunto:

```
print('**START**:')  
print(fileIN)  
print('*****')
```

Una vez impreso lo anterior, se pasa a calcular el hiperperíodo del conjunto de tareas:

```
# Hyperperiod calculation  
lcm = reduce(lambda a, b: a * b // gcd(a, b), P)  
TimeWindow = np.arange(lcm) # planning horizon
```

Con el hiperperíodo ya calculado, se define la matriz que da forma al modelo :

```
N = lcm / P # number of activation for each task  
L = []  
Tl = {}
```

```

d = {}
for i in I:
    for a in range(int(N[i])):
        l = (i, a)
        L.append(l)
        d[l] = D[i] + a * P[i] # Due date of job i in
                               # activation a
        Tl[l] = np.arange(a * P[i], (a + 1) * P[i])
                               #possible time for job i in activation a

```

5.4.2 Implementación en CPLEX

En este apartado se expone la implementación que es propia y afín solamente a CPLEX

5.4.2.1 Creación del modelo para CPLEX

Ahora se crea el objeto modelo de CPLEX y se declaran las variables del modelo de programación lineal entera mixta:

```

model = CpoModel()
x = model.binary_var_dict((i, j) for i in I for j in
    TimeWindow)
w = model.integer_var_dict((i, j) for i in I for j in
    range(int(N[i])))

```

5.4.2.2 Creación de las restricciones

Una vez creado el modelo se empieza a imponer las restricciones que definirán el modelo. Primero, que la tarea se complete antes de su peor tiempo de ejecución:

```

# task completes its wcet
for i in I:
    for a in range(int(N[i])):
        model.add((model.sum(x[i,t] for t in Tl[(i,
            a)]) == C[i]))

```

Después que cada ejecución se complete antes de su plazo:

```

# task completes before its deadline
for i in I:
    for a in range(int(N[i])):
        model.add((t * x[i,t] <= d[i, a] - 1 for t in
            Tl[(i, a)]))

```

Como siguiente condición, se define que solo se dé una ejecución de tarea por cada instante de tiempo:

```

# one instant, one task execution

```

```

model.add(model.sum(x[i,t] for i in I) <= 1 for t in
TimeWindow)

```

A continuación se define el tiempo de respuesta para cada ejecución del conjunto:

```

# response time
for i in I:
    for a in range(int(N[i])):
        model.add((w[i,a] >= (t * x[i,t] - a * P[i] +
1)) for t in Tl[(i, a)])

```

5.4.2.3 Definición del objetivo

Por último, se marca el objetivo del modelo, es decir, minimizar la función objetivo:

```

# Setting the objective
model.add(model.minimize(model.sum(1 / D[i] * w[i,a] for
i in I for a in range(int(N[i])))))

```

5.4.2.4 Configuración del solver

Una vez definido el modelo, se toma constancia del instante de tiempo previo a iniciar los cálculos, con tal de medir el tiempo transcurrido durante la computación:

```

# Calculating time
time_before = time.time()

```

En el siguiente apartado se limita el tiempo máximo de cómputo a 500 segundos:

```

msol = model.solve(TimeLimit = 500)

```

5.4.2.5 Optimización

A continuación se inicia la resolución del modelo:

```

msol = model.solve()

```

Una vez ha sido resuelto el modelo, se toma constancia del instante de finalización y se calcula el tiempo total transcurrido durante el cálculo:

```

time_after = time.time()
total_time = float(time_after - time_before)

```

Con las siguientes líneas se almacenan el GAP final y el resultado de la función objetivo en sendas variables:

```

#Getting final GAP
gap_final = msol.get_objective_gaps()

#Geting objective
funcion_obj = msol.get_objective_values()

```

5.4.3 Implementación en Gurobi

Igual que en el apartado anterior, en este se contemplará la parte de código que es única para Gurobi.

5.4.3.1 Creación del modelo para Gurobi

A continuación se crea el objeto modelo de Gurobi y se declaran las variables del modelo de programación lineal entera mixta:

```
model = Model()
x = model.addVars(I, TimeWindow, name='X',
vtype=GRB.BINARY) #plan
w = model.addVars(L, name='W', lb=0, ub=GRB.INFINITY,
vtype=GRB.CONTINUOUS) #response time
```

5.4.3.2 Creación de las restricciones

Una vez creado el modelo se empieza a imponer las restricciones que definirán el modelo. Primero, que la tarea se complete antes de su peor tiempo de ejecución:

```
# task completes its wcet
model.addConstrs((quicksum(x[i, t] for t in Tl[(i, a)]) ==
C[i] for i in I for a in range(int(N[i]))), 'c1')
```

Después que cada ejecución se complete antes de su plazo:

```
# task completes before its deadline
model.addConstrs((t * x[i, t] <= d[i, a] - 1 for i in I for
a in range(int(N[i])) for t in Tl[(i, a)]), 'c2')
```

Como siguiente condición, se define que solo se dé una ejecución de tarea por cada instante de tiempo:

```
# one instant, one task execution
model.addConstrs((quicksum(x[i, t] for i in I) <= 1 for t
in TimeWindow), 'c3')
```

A continuación se define el tiempo de respuesta para cada ejecución del conjunto:

```
# response time
model.addConstrs((w[i, a] >= t * x[i, t] - a * P[i] + 1 for
i in I for a in range(int(N[i])) for t in Tl[(i, a)]), 'cRT')
```


5.4.3.3 Definición del objetivo

En este apartado se resalta el objetivo, minimizar la función objetivo:

```
# Setting the objective
model.setObjective(quicksum(1 / D[i] * w[i, a] for i in I
for a in range(int(N[i]))), GRB.MINIMIZE)
```

5.4.3.4 Configuración del solver

Una vez construido el modelo, se definen el *gap* mínimo y el tiempo máximo de cómputo para las resoluciones:

```
max_time = 500 # seconds
min_gap = 0.01 # Gap 1%
model.setParam('TimeLimit', max_time)
model.setParam('MIPGap', min_gap)
```

5.4.3.5 Optimización

A continuación, se resuelve el modelo y se calcula el tiempo transcurrido:

```
time_prev = time.time()
model.optimize()
time_after = time.time()
total_time = float(time_after - time_prev)
```

Ahora se recoge el estado final del modelo, así como varios atributos finales alcanzados:

```
print("Final MIP gap value: %f" % model.MIPGap)
gap_final = model.MIPGap
stat = model.status #Final status: optimal,
infeasible, time limit reached, etc
#Get task name
taskName = fileIN.replace('.csv', '')
funcion_obj = float(model.objVal)
```

5.4.4 Implementación común (continuación)

5.4.4.1 Escribir fichero de resultados

Como siguiente paso, se coge el nombre del conjunto de tareas que se ha resuelto, para poder señalarlo a la hora de expresar los resultados:

```
#Get task name
taskName = fileIN.replace('.csv', '')
```


Y, si no se encuentra solución, se escribe también:

```
else:  
    planOUT.write("No solution found\n")
```

Por último, se finaliza la edición y se termina el programa

```
planOUT.close()
```

6. Resultados

El escenario de simulación desarrollado para este proyecto está ilustrado en la figura (13). Se divide en los siguientes pasos:

- Generación de la carga
- Ejecución de los *solvers* de MILP
- Validación

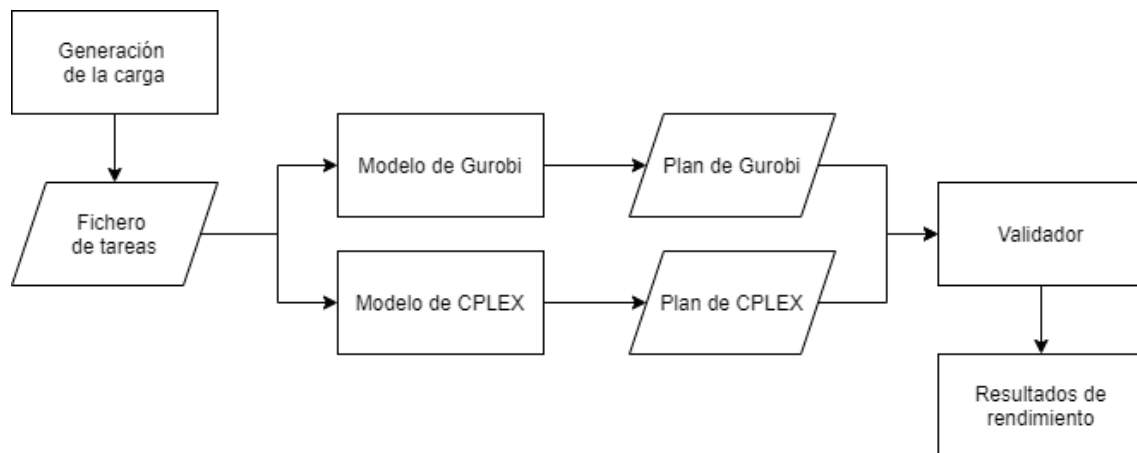


Figura 13. Escenario de simulación

La carga se crea usando un generador de tareas sintético. Dado un valor de utilización de un sistema y un número de tareas para cada conjunto, la utilización se comparte entre las tareas usando el algoritmo de descarte UuniFast [28]. Los tiempos de cómputo se generan de forma aleatoria dentro del intervalo [2,10] y los períodos se deducen de la utilización del sistema. Se

restringe el hiperperíodo para que este no sea mayor que 200, así que se descartan los conjuntos que excedan este límite y se repite la generación hasta conseguir suficientes instancias factibles.

La validación cuenta con dos pasos: por un lado, se comprueba la factibilidad de forma que todos los plazos se cumplen en todos los conjuntos de tareas. Por otro lado, algunos parámetros de rendimiento se obtienen para comparar ambos *solvers*. Específicamente, estos parámetros son los que se obtiene para cada conjunto:

- **Tiempo de respuesta:** se calcula el tiempo de respuesta medio respecto al plazo de la tarea, que es $\sum_{(i,a_i)} \frac{\omega_{ia_i}}{D_i}$. Se trata de la misma función que la función objetivo que el modelo de MILP trata de minimizar.
- **Tiempo de solución:** para ambos *solvers* se calcula el tiempo invertido en obtener una solución. Dado que los modelos de MILP simples pueden ser demasiado intensivos computacionalmente según el número de tareas, *lcm* o U_i aumentan, ambos *solvers* están limitados a un tiempo de solución de 500 segundos. La solución es almacenada pasado este tiempo.
- **Gap óptimo:** si el tiempo límite comentado anteriormente es alcanzado, la solución no es óptima. En este caso, la distancia a la solución se almacena también. Esta distancia, conocida como *gap*, es la distancia estimada entre el mejor objetivo posible y el mejor objetivo encontrado. Dado que buscar soluciones óptimas demostradas tarda mucho tiempo en computar, una práctica común es buscar una solución que garantice un máximo de $x\%$ (*gap*) de la solución óptima. Una ventaja significativa es que la mayoría del *gap* suele reducirse bastante en los primeros instantes de cómputo.

Los resultados pertinentes al tiempo de solución se muestran en las figuras (14) y (15). La figura (14) representa el tiempo que CPLEX y Gurobi necesitan para obtener la solución en función del número de tareas. En ambos *solvers*, a mayor número de tareas, mayor el tiempo invertido en encontrar una solución.

Lo mismo ocurre si se representa el tiempo de solución respecto al hiperperíodo (figura(15)). En estas figuras se representa la media de todas las tareas del conjunto ejecutado, la totalidad de los valores de los tiempos de solución puede verse en las figuras (16) y (17).

En todos los experimentos, Gurobi tarda menos tiempo en encontrar una solución. De hecho, CPLEX alcanza el tiempo límite en la mayoría de los casos, especialmente con U , N o *lcm* altos. Estas tres variables marcan el tamaño del problema, como se explica en Guasque et al. (2020) [29].

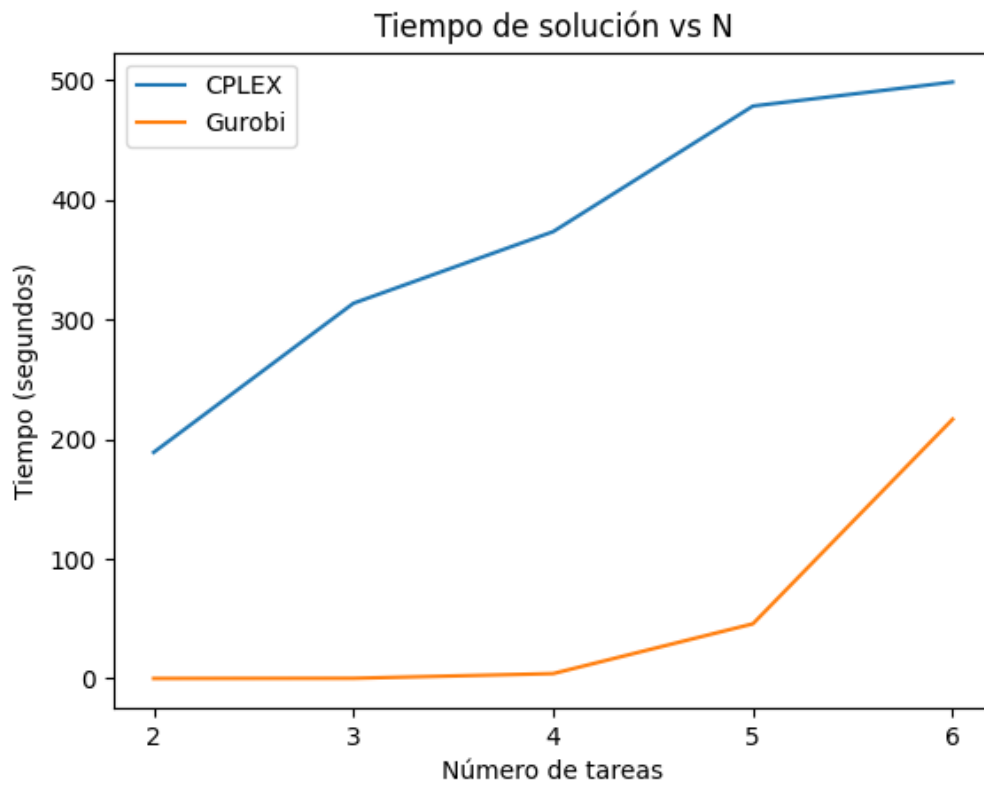


Figura 14. Tiempo de solución vs N

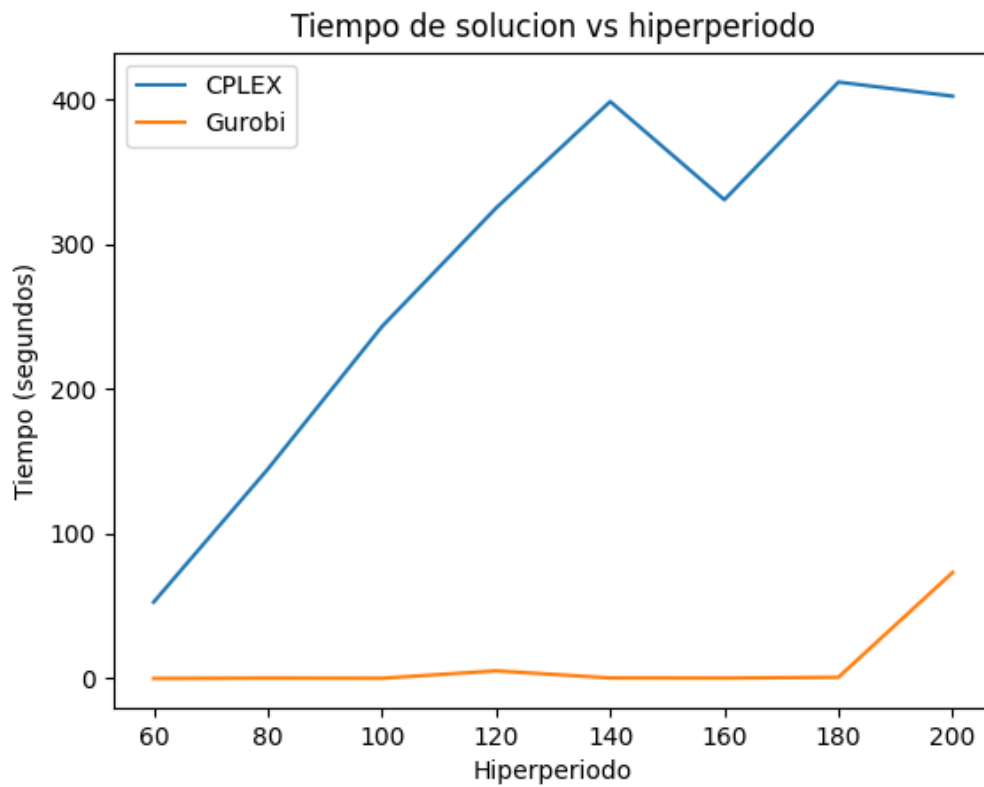


Figura 15. Tiempo de solución vs hiperperiodo

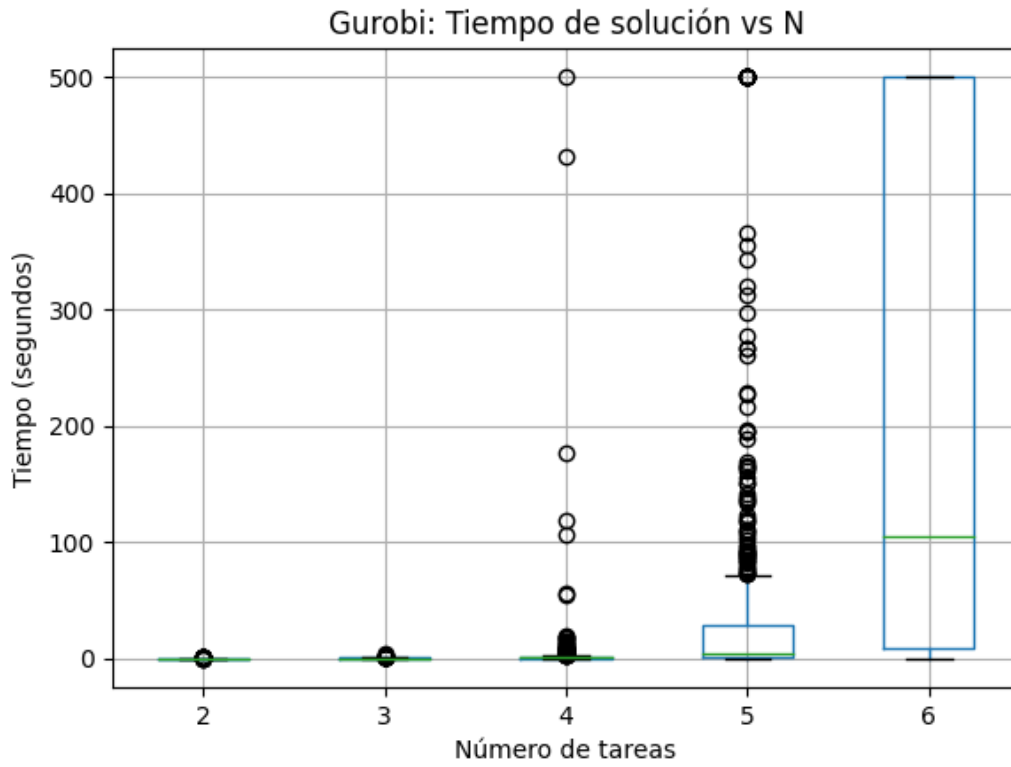


Figura 16. Gurobi: Tiempo de solución vs N

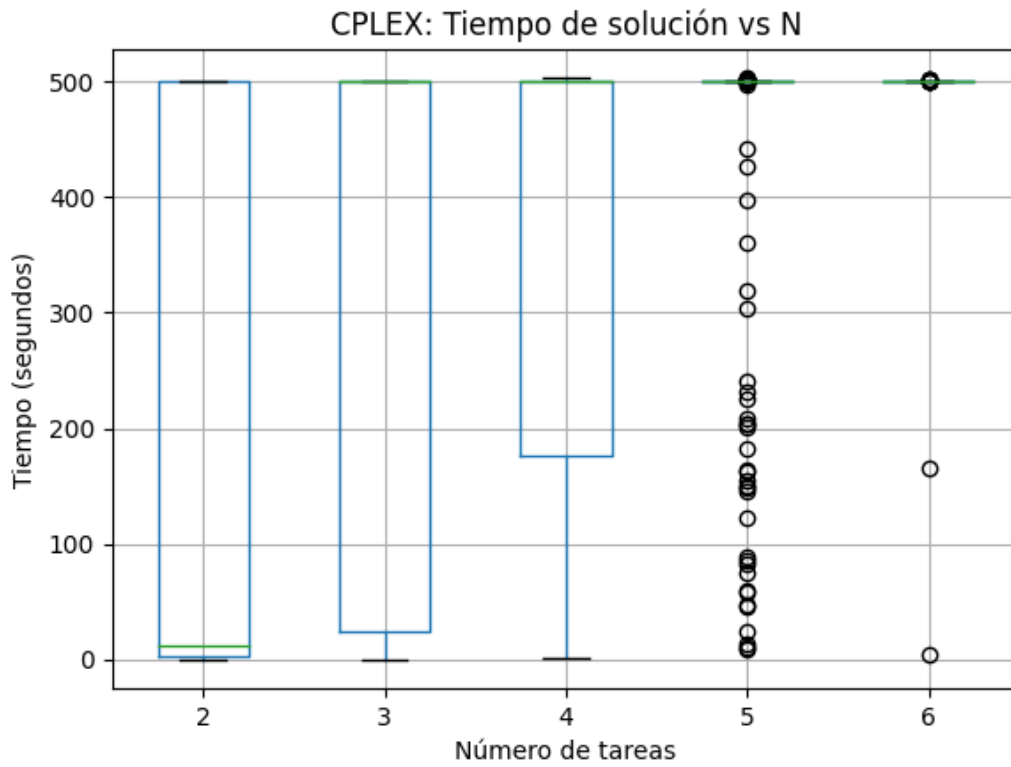


Figura 17. CPLEX: Tiempo de solución vs N

Para saber si la solución obtenida es óptima, podemos observar los resultados del tiempo de respuesta, que es el objetivo a minimizar en ambos *solvers*. Estos resultados se muestran en las figuras (18) y (19) respecto a la utilización del conjunto de tareas y al número de tareas, respectivamente. También se puede observar como ambos *solvers* obtienen la misma solución. Hasta el momento, Gurobi ha conseguido mejores resultados que CPLEX; por consiguiente, si ambos *solvers* obtienen el mismo objetivo, es de esperar también que también obtengan el mismo *gap*. En la figura () se muestra el *gap* obtenido para ambos *solvers*, aunque, en contra de lo esperado, CPLEX presenta uno mucho mayor que Gurobi.

Esto podría deberse a, como viene expresado en el manual de usuario de CPLEX [26]:

“En ocasiones ILOG CPLEX encuentra una buena solución entera, pero varios nodos adicionales deben ser examinados para poder demostrar que la solución es óptima. La optimalidad relativa por defecto es 0.0001. Con esta tolerancia, la solución entera final está garantizada para encontrarse en el 0.01% del valor óptimo. Por supuesto, varias formulaciones de programas tanto enteros como enteros mixtos no requieren una tolerancia tan alta, por lo que requerir que ILOG CPLEX busque soluciones enteras que cumplan este requisito de tolerancia en esos casos es computación malgastada.”

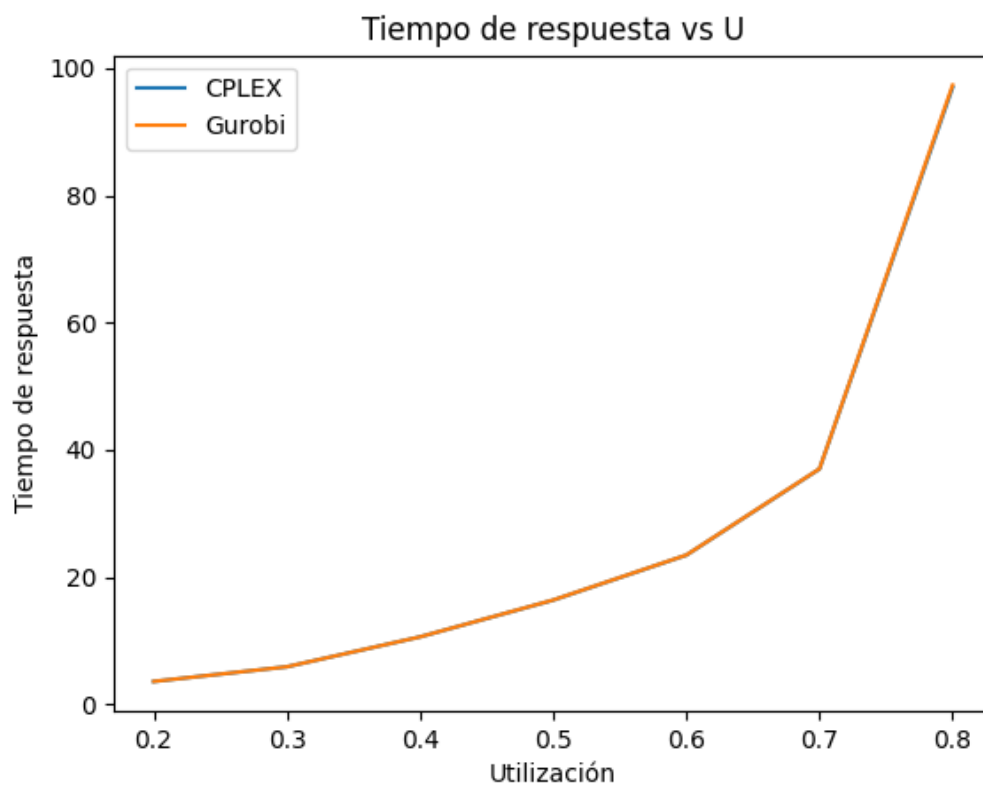


Figura 18. Tiempo de respuesta vs U

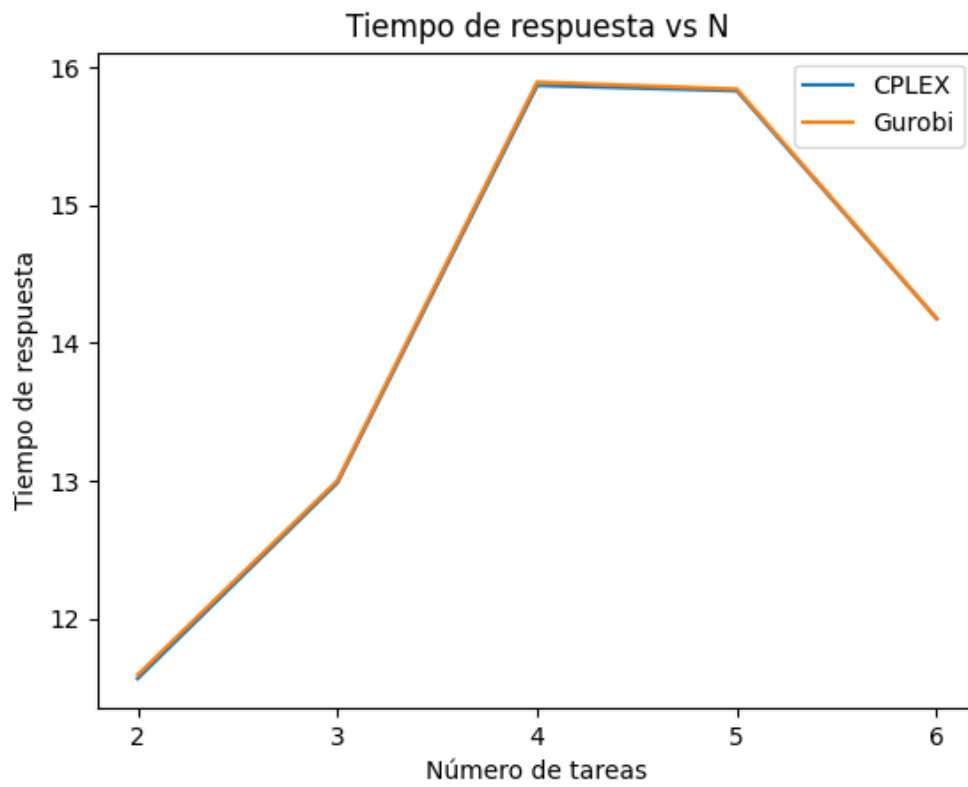


Figura 19. Tiempo de respuesta vs N

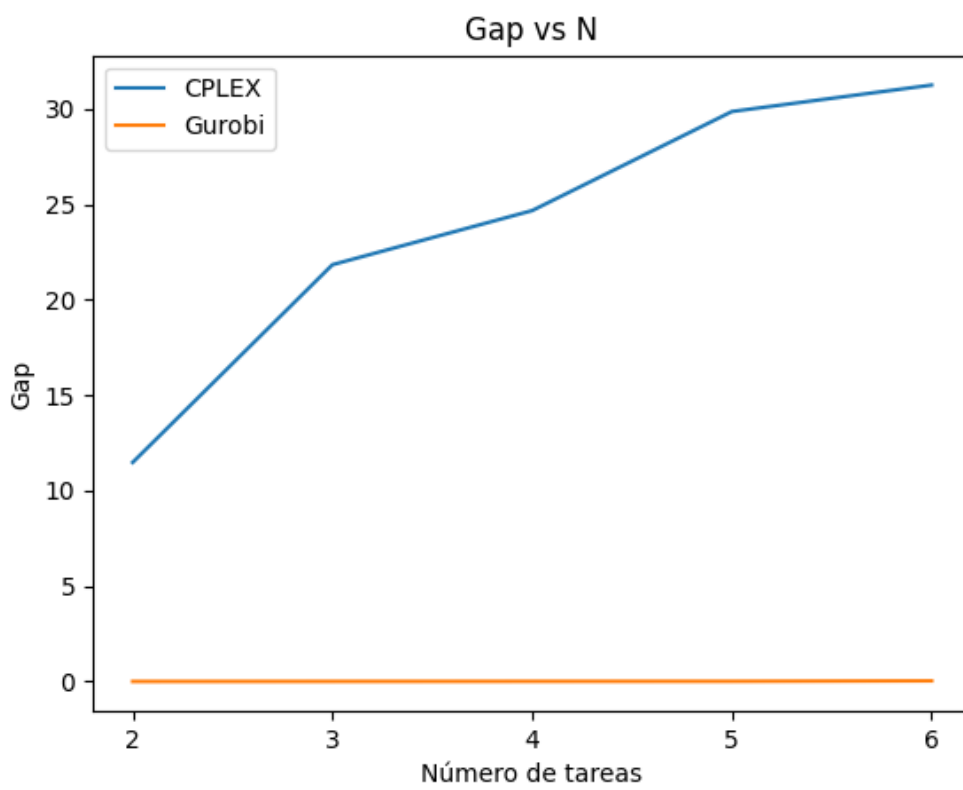


Figura 20. Gap vs N

Entonces, lo que puede haber ocurrido es que CPLEX haya encontrado la solución óptima al mismo tiempo que Gurobi, pero tarde bastante tiempo en confirmar que esa solución sea la óptima. Para corroborar esa asunción, la figura (21) muestra la comparación del *gap* resultante en CPLEX para tiempos límites de 500 y 1000 segundo, y la figura (22) para sus correspondientes tiempos de respuesta. Como se puede observar, los tiempos de respuesta obtenidos son los mismos, pero el *gap* decrece cuando el tiempo límite incrementa. Probablemente, según aumente el tiempo límite, también disminuirá el *gap* hasta 0 con un tiempo de respuesta similar. El problema es que puede llevar horas alcanzar el *gap* 0 en CPLEX y asegurarse de que se ha obtenido la solución óptima.

Como ejemplo, un conjunto de 4 tareas con los parámetros presentados en la tabla (3), con $lcm=20$ y $U=0.46$ obtiene los resultados para Gurobi y CPLEX mostrados en la tabla (4).

	C	D	T
τ_1	1	5	8
τ_2	7	15	25
τ_3	3	90	100
τ_4	5	166	200

Tabla 3. Conjunto de ejemplo

	Tiempo de solución	Tiempo de respuesta	Gap
Gurobi	3.411	9.4266	0.01
CPLEX	66155.33	9.4266	0.01

Tabla 4. Resultados tarea de ejemplo

Como se puede observar, ambos obtienen el mismo resultado, que es óptimo, pero a CPLEX le cuesta varias órdenes de magnitud más que a Gurobi resolver la planificación. En este caso podemos observar el mismo comportamiento comentado en el manual de CPLEX, el objetivo 9.4226 es alcanzado casi automáticamente, pero tarda varias horas en confirmar que el resultado es óptimo.

Como conclusión, Gurobi alcanza la solución óptima considerablemente más rápido que CPLEX para este tipo de problemas.

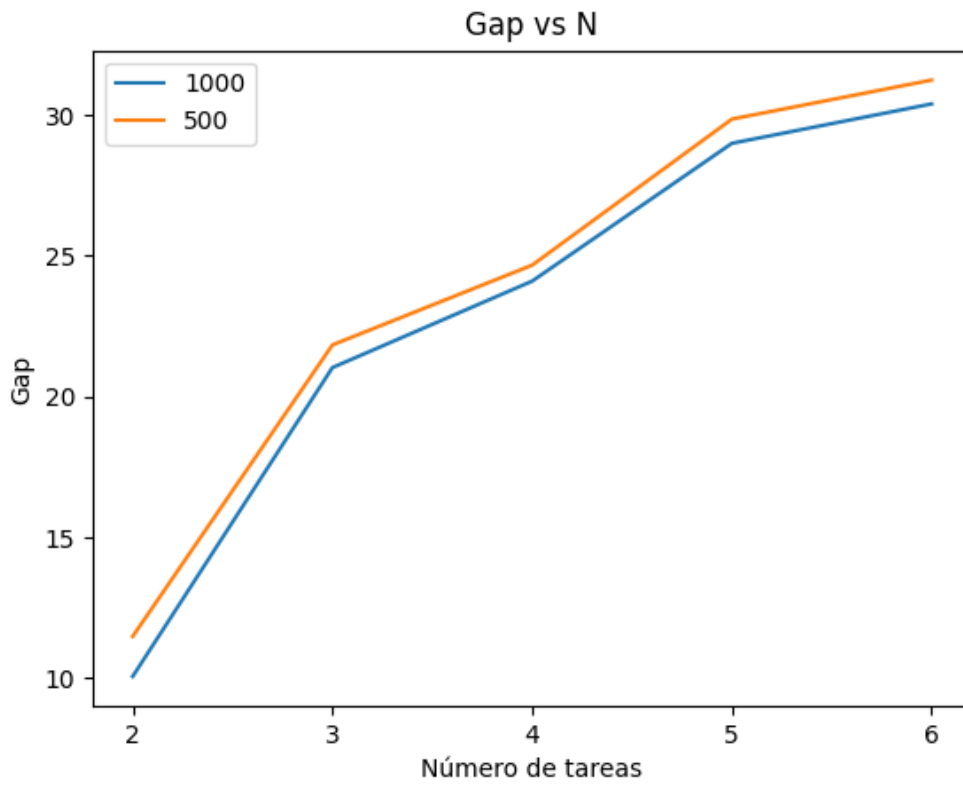


Figura 21. Gap vs N para límites de 500 y 1000

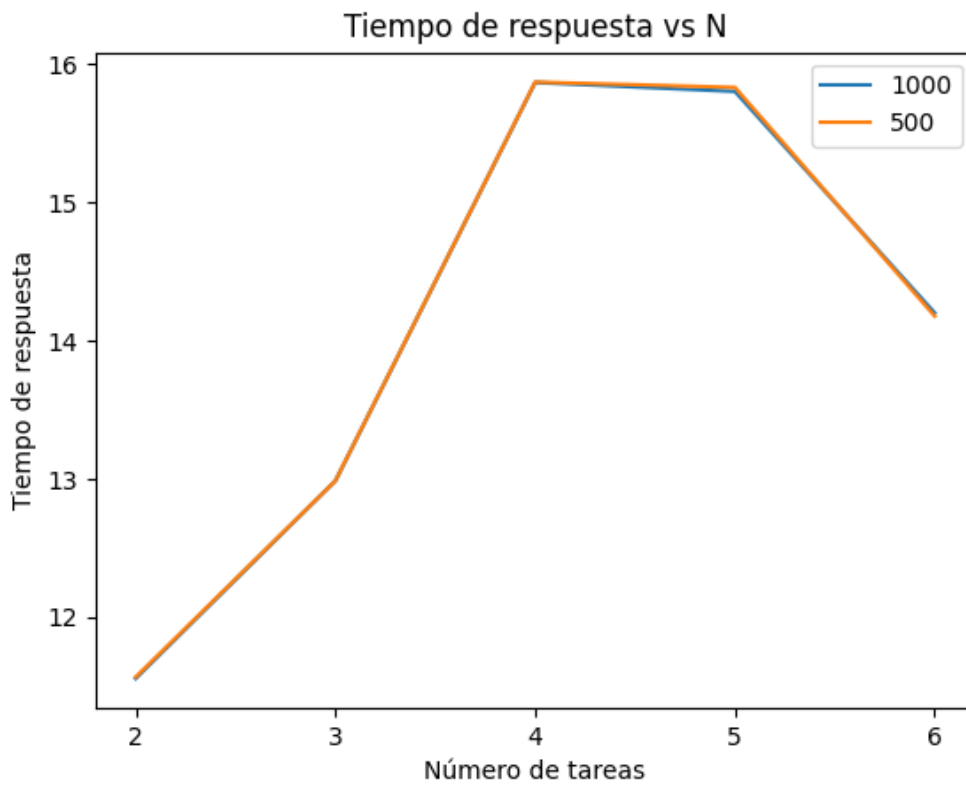


Figura 22. Tiempo de respuesta vs N para límites de 500 y 1000

7. Presupuesto

En este apartado del proyecto se muestran los costes de los materiales y mano de obra empleados para llevar a cabo el proyecto.

Primero se exponen los materiales que han sido utilizados para el desarrollo del proyecto, en este caso el ordenador personal del alumno. Se tiene en cuenta, en vez del coste total del mismo, la amortización correspondiente a un año de uso, usando el valor anual que marca el ministerio de Hacienda [30]:

MATERIALES				
Uds.	Denominación	Cantidades	Precio	Total
u	Ordenador personal Acer Aspire V15	1	799,00 €	
%	Amortización	26	207,74 €	207,74 €
SUBTOTAL MATERIALES				207,74 €

Tabla 5. Desglose de materiales

A continuación se desglosan las horas de trabajo empleadas por el alumno para la realización de este proyecto.

MANO DE OBRA				
Uds.	Tarea	Cantidades	Precio	Total
h	Instalación de software	3	20,00 €	60,00 €
h	Aprendizaje de software	45	20,00 €	900,00 €
h	Implementación de los modelos	170	20,00 €	3.400,00 €
h	Evaluación de los modelos	30	20,00 €	600,00 €
h	Redacción de la memoria	52	20,00 €	1.040,00 €
SUBTOTAL MANO DE OBRA				6000,00 €

Tabla 6. Desglose de la mano de obra

No se incluye el coste de las licencias de software en este documento, ya que para su realización se han usado con licencias académicas gratuitas.

Por último, se muestra la tabla resumen del presupuesto, en la que se añade el IVA y se refleja el coste total de proyecto.

PEM				
	Materiales	Mano de obra	Costes directos complementarios (%)	Total
Aplicación	207,74 €	6.000,00 €		6.207,74 €
IVA			21%	1.303,63 €
SUBTOTAL				7.511,37 €

Tabla 7. Coste total del proyecto

8. Conclusiones y futuros campos de desarrollo

Podemos concluir que se ha alcanzado el objetivo final de este proyecto, comparar el rendimiento de los dos *solvers* más usados, CPLEX y Gurobi, para la resolución de problemas de planificación en sistemas de tiempo real monoprocesador usando la programación lineal entera mixta.

La comparación se ha realizado en términos del tiempo empleado para alcanzar la solución óptima, la solución obtenida y la distancia a la óptima. Los resultados muestran como Gurobi emplea considerablemente menos tiempo en encontrar la solución óptima, así que puede ser considerado como el predilecto a utilizar en futuros desarrollos para proyectos similares.

Un campo en el que podría ahondarse un futuro trabajo sería la implementación de este modelo de programación lineal entera mixta a sistemas de tiempo real multiprocesador, para experimentar y comprobar más a fondo su rendimiento.

También señalar que en base a este proyecto se ha escrito un artículo de investigación, "Comparison of integer programming solvers for hard real-time scheduling, (Martí Moreno, Ana Guasque, Patricia Balbastre)", actualmente con su publicación solicitada en la revista *Microprocessors and Microsystems*.

9. Bibliografía

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ANEXO I: CÓDIGO ADICIONAL

En este documento se muestra el código adicional del desarrollo del proyecto, en concreto, el usado para trazar las gráficas del apartado 6.

Archivo `plotsCC_es.py`

```
#!/usr/bin/env python3

from functools import reduce
import numpy as np
import pandas as pd
import os
import glob
import sys
import matplotlib.pyplot as plt

if len(sys.argv) == 2:
    dirSets = str(sys.argv[1])

files = glob.glob(dirSets+'/*.csv')
#Cplex with diferent time limits

dfNmeanOBJ = []
dfUmeanOBJ = []
dfNmeanGAP = []
dfUmeanGAP = []
dfNmeanLCM = []
dfNmeanTime = []
dfUmeanLCM = []
dfUmeanTime = []
dfHmeanTime = []
dfNTime = []
dfUTime = []
```

```

for f in files:

    Title = os.path.splitext(os.path.basename(f))[0]

    df = pd.read_csv(f, delimiter=',')

    df.boxplot(column='Time', by='N')

    plt.suptitle("")

    plt.title(Title +': Tiempo de solución vs N')

    plt.ylabel('Tiempo (segundos)')

    plt.xlabel('Número de tareas')

    plt.savefig(Title+'BoxplotN.png')

    plt.show()

    plt.close()

    dfNmeanGAP.append(df.groupby("N")['GAP'].mean())

    dfNmeanOBJ.append(df.groupby("N")['OBJ'].mean())

    dfNmeanLCM.append(df.groupby("N")['H'].mean())

    dfNmeanTime.append(df.groupby("N")['Time'].mean())

# dfUmeanGAP.append(df.groupby("U")['GAP'].mean())

dfUmeanGAP.append(df.groupby(pd.cut(df['U'], bins=7))['GAP'].mean())

dfUmeanOBJ.append(df.groupby(pd.cut(df['U'], bins=7))['OBJ'].mean())

dfUmeanTime.append(df.groupby(pd.cut(df['U'], bins=7))['Time'].mean())

dfUmeanLCM.append(df.groupby(pd.cut(df['U'], bins=7))['H'].mean())

dfHmeanTime.append(df.groupby(pd.cut(df['H'], bins=8))['Time'].mean())

dfNTime.append(df.groupby("N")['Time'])

bins2 = [60, 80, 100, 120, 140, 160, 180, 200]

dfHmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="H"), dfHmeanTime)

dfHmeanTimemerged.columns = ['1000', '500']

print(dfHmeanTimemerged)

dfHmeanTimemerged.plot()

plt.title('Tiempo de solución vs hiperperiodo')

plt.ylabel('Tiempo (segundos)')

```

```

plt.xlabel('Hiperperiodo')
plt.xticks([0,1,2,3,4,5,6,7],bins2)
plt.savefig('Time_H2.png')
plt.show()
plt.close()

dfNmeanOBJmerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanOBJ)
dfNmeanOBJmerged.columns = ['1000', '500']
print(dfNmeanOBJmerged)
dfNmeanOBJmerged.plot()
plt.title('Tiempo de respuesta vs N')
plt.ylabel('Tiempo de respuesta')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('OBJ_N2.png')
plt.show()
plt.close()
print("\n\n")

dfNmeanGAPmerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanGAP)
dfNmeanGAPmerged.columns = ['1000', '500']
print(dfNmeanGAPmerged)
dfNmeanGAPmerged.plot()
plt.title('Gap vs N')
plt.ylabel('Gap')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('GAP_N2.png')
plt.show()
plt.close()
print("\n\n")

```

```

dfNmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanTime)
dfNmeanTimemerged.columns = ['1000', '500']
print(dfNmeanTimemerged)
dfNmeanTimemerged.plot()
plt.title('Tiempo de solución vs N')
plt.ylabel('Tiempo (segundos)')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('Time_N2.png')
plt.show()
plt.close()

# bins = [0.2,0.3,0.4,0.5,0.6,0.7,0.8]

# dfUmeanOBJmerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanOBJ)
# #dfUmeanOBJmerged.reset_index(inplace=True)
# dfUmeanOBJmerged.columns = ['1000', '500']
# dfUmeanOBJmerged.plot()
# plt.title('Tiempo de respuesta vs U')
# plt.ylabel('Tiempo de respuesta')
# plt.xlabel('Utilización')
# plt.xticks([0,1,2,3,4,5,6],bins)
# plt.savefig('OBJ_U2.png')
# plt.show()
# plt.close()
# print("\n\n")

# dfUmeanGAPmerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanGAP)
# dfUmeanGAPmerged.columns = ['1000', '500']
# print(dfUmeanGAPmerged)

```

```
# dfUmeanGAPmerged.plot()

# plt.title('Gap vs U')

# plt.ylabel('Gap')

# plt.xlabel('Utilización')

# plt.xticks([0,1,2,3,4,5,6],bins)

# plt.savefig('GAP_U2.png')

# plt.show()

# plt.close()

# print("\n\n")

# dfUmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanTime)

# dfUmeanTimemerged.columns = ['1000', '500']

# print(dfUmeanTimemerged)

# dfUmeanTimemerged.plot()

# plt.title('Tiempo de solución vs U')

# plt.ylabel('Tiempo (segundos)')

# plt.xlabel('Utilización')

# plt.xticks([0,1,2,3,4,5,6],bins)

# plt.savefig('Time_U2.png')

# plt.show()
```

Archivo plotsCG_es.py

```
#!/usr/bin/env python3

from functools import reduce
import numpy as np
import pandas as pd
import os
import glob
import sys
import matplotlib.pyplot as plt

if len(sys.argv) == 2:
    dirSets = str(sys.argv[1])

files = glob.glob(dirSets+'/*.csv')

dfNmeanOBJ = []
dfUmeanOBJ = []
dfNmeanGAP = []
dfUmeanGAP = []
dfNmeanLCM = []
dfNmeanTime = []
dfUmeanLCM = []
dfUmeanTime = []
dfHmeanTime = []
dfNTime = []
dfUTime = []

for f in files:
    Title = os.path.splitext(os.path.basename(f))[0]
    df = pd.read_csv(f, delimiter=',')
```

```

df.boxplot(column='Time', by='N')

plt.suptitle("")

plt.title(Title +' : Tiempo de solución vs N')

plt.ylabel('Tiempo (segundos)')

plt.xlabel('Número de tareas')

plt.savefig(Title+'BoxplotN.png')

plt.show()

plt.close()

dfNmeanGAP.append(df.groupby("N")['GAP'].mean())

dfNmeanOBJ.append(df.groupby("N")['OBJ'].mean())

dfNmeanLCM.append(df.groupby("N")['H'].mean())

dfNmeanTime.append(df.groupby("N")['Time'].mean())

# dfUmeanGAP.append(df.groupby("U")['GAP'].mean())

dfUmeanGAP.append(df.groupby(pd.cut(df['U'], bins=7))['GAP'].mean())

dfUmeanOBJ.append(df.groupby(pd.cut(df['U'], bins=7))['OBJ'].mean())

dfUmeanTime.append(df.groupby(pd.cut(df['U'], bins=7))['Time'].mean())

dfUmeanLCM.append(df.groupby(pd.cut(df['U'], bins=7))['H'].mean())

dfHmeanTime.append(df.groupby(pd.cut(df['H'], bins=8))['Time'].mean())

dfNTime.append(df.groupby("N")['Time'])

bins2 = [60, 80, 100, 120, 140, 160, 180, 200]

dfHmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="H"), dfHmeanTime)

dfHmeanTimemerged.columns = ['CPLEX', 'Gurobi']

print(dfHmeanTimemerged)

dfHmeanTimemerged.plot()

plt.title('Tiempo de solución vs hiperperiodo')

plt.ylabel('Tiempo (segundos)')

plt.xlabel('Hiperperiodo')

plt.xticks([0,1,2,3,4,5,6,7],bins2)

plt.savefig('Time_H.png')

```

```

plt.show()

plt.close()

dfNmeanOBJmerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanOBJ)
dfNmeanOBJmerged.columns = ['CPLEX', 'Gurobi']
print(dfNmeanOBJmerged)
dfNmeanOBJmerged.plot()
plt.title('Tiempo de respuesta vs N')
plt.ylabel('Tiempo de respuesta')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('OBJ_N.png')
plt.show()
plt.close()
print("\n\n")

dfNmeanGAPmerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanGAP)
dfNmeanGAPmerged.columns = ['CPLEX', 'Gurobi']
print(dfNmeanGAPmerged)
dfNmeanGAPmerged.plot()
plt.title('Gap vs N')
plt.ylabel('Gap')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('GAP_N.png')
plt.show()
plt.close()
print("\n\n")

dfNmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="N"), dfNmeanTime)
dfNmeanTimemerged.columns = ['CPLEX', 'Gurobi']

```



```

print(dfNmeanTimemerged)
dfNmeanTimemerged.plot()
plt.title('Tiempo de solución vs N')
plt.ylabel('Tiempo (segundos)')
plt.xlabel('Número de tareas')
plt.xticks(np.arange(2, 7, step=1))
plt.savefig('Time_N.png')
plt.show()
plt.close()

bins = [0.2,0.3,0.4,0.5,0.6,0.7,0.8]

dfUmeanOBJmerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanOBJ)
#dfUmeanOBJmerged.reset_index(inplace=True)
dfUmeanOBJmerged.columns = ['CPLEX', 'Gurobi']
dfUmeanOBJmerged.plot()
plt.title('Tiempo de respuesta vs U')
plt.ylabel('Tiempo de respuesta')
plt.xlabel('Utilización')
plt.xticks([0,1,2,3,4,5,6],bins)
plt.savefig('OBJ_U.png')
plt.show()
plt.close()
# print("\n\n")

dfUmeanGAPmerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanGAP)
dfUmeanGAPmerged.columns = ['CPLEX', 'Gurobi']
print(dfUmeanGAPmerged)
dfUmeanGAPmerged.plot()
plt.title('Gap vs U')
plt.ylabel('Gap')

```

```
plt.xlabel('Utilización')
plt.xticks([0,1,2,3,4,5,6],bins)
plt.savefig('GAP_U.png')
plt.show()
plt.close()
print("\n\n")

dfUmeanTimemerged = reduce(lambda a, b: pd.merge(a,b, on="U"), dfUmeanTime)
dfUmeanTimemerged.columns = ['CPLEX', 'Gurobi']
print(dfUmeanTimemerged)
dfUmeanTimemerged.plot()
plt.title('Tiempo de solución vs U')
plt.ylabel('Tiempo (segundos)')
plt.xlabel('Utilización')
plt.xticks([0,1,2,3,4,5,6],bins)
plt.savefig('Time_U.png')
plt.show()
```

ANEXO II: TABLAS DE RESULTADOS

En este documento se mostrarán los resultados de los cálculos.

Task	N	H	U	Time	OBJ	GAP
setTask0	2	200	0.2150	0.0973	27.039	0.00613977792290294
setTask1	2	200	0.2100	0.0793	185.464	0.0
setTask10	2	200	0.2450	0.0335	122.054	0.0
setTask100	2	72	0.3056	0.1002	130.446	0.0
setTask1000	4	200	0.2350	16.710	103.235	0.0
setTask1001	4	200	0.2500	0.3179	877.752	0.009880594588808562
setTask1002	4	200	0.2350	0.5223	184.762	0.009822969635385545
setTask1003	4	200	0.2400	12.142	310.939	0.008286130650993038
setTask1004	4	200	0.2450	0.4542	803.743	0.009865458089295901
setTask1005	4	200	0.2650	41.519	212.821	0.009250760482576802
setTask1006	4	200	0.2500	0.4449	100.976	0.008251912465507936
setTask1007	4	200	0.2750	12.759	0.666667	0.009412096250554008
setTask1008	4	200	0.3050	96.196	123.611	0.0
setTask1009	4	200	0.2600	33.668	155.905	0.0
setTask101	2	104	0.3269	0.0534	100.926	0.0
setTask1010	4	200	0.2500	0.6635	803.704	0.008225702897762041
setTask1011	4	200	0.2150	0.0908	120.234	0.0016702725894043985
setTask1012	4	200	0.2100	0.3008	289.714	0.00932757297947458
setTask1013	4	200	0.2150	0.2852	313.878	0.009873892115816152
setTask1014	4	200	0.2550	0.9261	133.911	0.009598558844577405
setTask1015	4	200	0.2450	0.1159	234.844	0.006522959623389761
setTask1016	4	200	0.2350	0.4440	177.778	0.003761252750389055
setTask1017	4	200	0.2300	0.4738	3.4	0.0
setTask1018	4	200	0.2500	0.5827	188.818	0.009525042224061638
setTask1019	4	200	0.2250	0.3164	100.466	0.004571473652393368
setTask102	2	189	0.3016	0.2162	556.373	0.007186081694399289
setTask1020	4	200	0.2650	0.5051	227.817	0.009647455565093749
setTask1021	4	200	0.2750	0.8695	121.315	0.008267926002596243

setTask1022	4	200	0.2450	0.1615	134.121	0.0
setTask1023	4	200	0.2450	96.902	27.201	0.007858538601089439
setTask1024	4	200	0.2850	0.0987	720.755	0.0075861462182779185
setTask1025	4	200	0.2900	0.6245	291.744	0.0
setTask1026	4	200	0.2550	0.7965	15.8	0.007948784664635394
setTask1027	4	200	0.2400	0.1492	110.679	0.00946328889240681
setTask1028	4	200	0.2300	0.6963	808.553	0.00987401024271567
setTask1029	4	200	0.2650	0.3664	169.524	0.009478084578545784
setTask103	2	200	0.3350	0.0844	30.625	0.002772963604849132
setTask1030	4	200	0.2300	0.4687	447.741	0.009533298825565585
setTask1031	4	200	0.2500	0.3949	133.619	0.00987734791181474
setTask1032	4	200	0.2400	12.403	2.6	0.008378787117908243
setTask1033	4	200	0.3000	0.1002	180.565	0.00988260699346934
setTask1034	4	200	0.2700	0.3007	150.794	0.008944891987243492
setTask1035	4	200	0.2750	18.496	220.015	0.009780192079938571
setTask1036	4	200	0.2600	0.6017	204.167	0.0099292264758614
setTask1037	4	200	0.2350	0.5186	285.294	0.008008010414029414
setTask1038	4	200	0.2550	0.6704	451.077	0.005558370965069373
setTask1039	4	200	0.2400	0.3248	138.832	0.009123164421878579
setTask104	2	156	0.3013	0.1315	313.636	0.0
setTask1040	4	200	0.2600	0.6565	504.878	0.009211282243902018
setTask1041	4	200	0.2600	0.0506	100.727	0.0054051607922771415
setTask1042	4	200	0.2300	0.2317	289.692	0.009902290514678131
setTask1043	4	200	0.2500	0.8408	290.923	0.009919851790613375
setTask1044	4	200	0.2700	0.0648	0.698093	0.007935772825757314
setTask1045	4	200	0.2700	12.234	0.403846	0.009768896808698614
setTask1046	4	200	0.2800	11.815	0.798097	0.007726319577405044
setTask1047	4	200	0.2200	0.1392	409.211	0.009853975092736162
setTask1048	4	200	0.2200	0.1611	230.149	0.009835179508652024
setTask1049	4	200	0.2450	0.5325	272.952	0.009645666511636645

setTask105	2	188	0.3138	0.0533	502.151	0.0
setTask1050	4	200	0.2800	18.843	166.667	0.00865469487688925
setTask1051	4	200	0.2750	13.399	132.605	0.00955221706145249
setTask1052	4	200	0.2450	14.590	200.704	0.005232997828974572
setTask1053	4	200	0.2800	0.1016	133.857	0.005554985982626452
setTask1054	4	200	0.2650	62.278	200.176	0.0
setTask1055	4	200	0.2500	0.4039	0.285256	0.0
setTask1056	4	200	0.2650	0.9385	597.619	0.0017677619750522903
setTask1057	4	200	0.3100	0.7166	253.226	0.009864340475988541
setTask1058	4	200	0.2200	0.1600	25.596	0.008571277295941985
setTask1059	4	200	0.2650	0.6252	281.897	0.009798125058930587
setTask106	2	88	0.3068	0.0469	851.515	0.0
setTask1060	4	200	0.2200	12.630	0.772251	0.007623036479469394
setTask1061	4	200	0.2600	14.896	338.375	0.004291241920539574
setTask1062	4	200	0.2700	15.864	214.253	0.0
setTask1063	4	200	0.2100	0.1321	246.078	0.009397718422599406
setTask1064	4	200	0.2650	12.066	207.229	0.008673030568550146
setTask1065	4	200	0.2250	0.3654	109.692	0.009666176106824485
setTask1066	4	200	0.2650	0.7254	0.977273	0.004489287495712243
setTask1067	4	200	0.2550	0.4336	577.679	0.00892645254296855
setTask1068	4	200	0.2550	0.3244	0.77193	0.008541839475217881
setTask1069	4	200	0.2650	0.4166	361.538	0.009849850289258203
setTask107	2	126	0.3095	0.1159	134.405	0.0
setTask1070	4	200	0.2650	0.5426	672.481	0.007326772035284608
setTask1071	4	200	0.2250	0.6719	29.127	0.006557051237012719
setTask1072	4	200	0.2250	0.1849	4	0.008947433918218946
setTask1073	4	200	0.2450	0.1117	0.924739	0.008301110201013642
setTask1074	4	200	0.2800	51.690	200.667	0.002677856901798509
setTask1075	4	200	0.2300	0.4148	230.769	0.006511984198560795
setTask1076	4	200	0.2600	0.6046	669.982	0.009946253763690039

setTask1077	4	200	0.2550	13.435	608.163	0.005686149280840412
setTask1078	4	200	0.2650	0.7641	255.357	0.008100984121674102
setTask1079	4	200	0.2550	78.475	148.611	0.006164240462860274
setTask108	2	90	0.3111	0.0469	226.602	0.0
setTask1080	4	200	0.2500	0.1416	579.693	0.006080259424402511
setTask1081	4	200	0.2900	62.155	291.925	0.009687842709313235
setTask1082	4	200	0.2550	0.4816	100.588	0.009135472358538177
setTask1083	4	200	0.2850	0.1717	133.542	0.007765643230464923
setTask1084	4	200	0.2250	0.7371	575.527	0.005429951266149257
setTask1085	4	200	0.3150	0.1536	113.559	0.009907330544671055
setTask1086	4	200	0.2650	10.386	370.202	0.008085555875289918
setTask1087	4	200	0.2800	0.0906	578.307	0.009690322109386147
setTask1088	4	200	0.2500	12.824	201.136	0.005645486067778975
setTask1089	4	200	0.2500	0.8785	5.25	0.008627078580434535
setTask109	2	60	0.3167	0.0507	260.675	0.0
setTask1090	4	200	0.2850	0.0722	755.236	0.00907754521644467
setTask1091	4	200	0.2250	0.1664	481.159	0.009608911707504067
setTask1092	4	200	0.2400	0.1471	161.505	0.009587512030301308
setTask1093	4	200	0.2500	13.086	477.143	0.009301771076853383
setTask1094	4	200	0.2500	0.4501	240.196	0.009630069084827159
setTask1095	4	200	0.2150	0.4633	520.588	0.009988135912805158
setTask1096	4	200	0.3050	0.5722	211.111	0.00986860836909689
setTask1097	4	200	0.2250	0.4829	387.791	0.008065009266245532
setTask1098	4	200	0.2900	0.1315	698.413	0.009902660134795242
setTask1099	4	200	0.2800	47.272	121.252	0.007702160327059707
setTask11	2	64	0.2031	0.0469	296.524	0.0
setTask110	2	195	0.3077	0.2192	245.274	0.0
setTask1100	4	200	0.3250	0.5210	267.857	0.00999900376576528
setTask1101	4	200	0.3700	0.1002	456.364	0.0060952798143710735
setTask1102	4	200	0.3150	0.2162	5.55	0.009918109374525648

setTask1103	4	200	0.3250	15.867	189.348	0.0051339947549292825
setTask1104	4	200	0.3550	0.8978	82.619	0.007519968134155029
setTask1105	4	200	0.3450	0.1291	574.569	0.008835934860650737
setTask1106	4	200	0.3850	11.687	174.667	0.006162187949293595
setTask1107	4	200	0.3450	0.0312	212.879	0.0059310375933022035
setTask1108	4	200	0.3600	0.3840	328.302	0.009805032872366464
setTask1109	4	200	0.3400	0.6686	754.274	0.009939844374890042
setTask111	2	156	0.3141	0.0469	13.539	0.0
setTask1110	4	200	0.3800	61.912	2	0.009280580313252823
setTask1111	4	200	0.3250	36.121	501.515	0.007188176162568623
setTask1112	4	200	0.3700	0.1110	672.464	0.008727324112333677
setTask1113	4	200	0.3450	0.7905	235.294	0.009235503057526597
setTask1114	4	200	0.3850	4.316.412	0.791209	0.009962069119858284
setTask1115	4	200	0.3100	0.2340	5.45	0.009284048244381282
setTask1116	4	200	0.3500	0.2703	288.966	0.007889160119974498
setTask1117	4	200	0.3600	0.5063	217.483	0.007431014400385728
setTask1118	4	200	0.3500	16.061	788.462	0.008516161093011074
setTask1119	4	200	0.3300	0.0690	111.467	0.009201004319723032
setTask112	2	96	0.3021	0.0690	676.923	0.0
setTask1120	4	200	0.3550	0.5858	100.455	0.007365190833073604
setTask1121	4	200	0.3200	42.153	512.222	0.00359339175073471
setTask1122	4	200	0.3300	11.682	100.513	0.009655502870993414
setTask1123	4	200	0.3500	0.3315	370.417	0.0
setTask1124	4	200	0.3500	0.0312	10.137	0.002175624901628841
setTask1125	4	200	0.3300	0.1313	101.333	0.009680532355914146
setTask1126	4	200	0.3400	0.6129	466.667	0.008812469599327412
setTask1127	4	200	0.3500	0.2304	275.497	0.003102699844587087
setTask1128	4	200	0.3450	140.985	968.333	0.007253261405908907
setTask1129	4	200	0.3700	0.1471	159.957	0.007822182379480212
setTask113	2	175	0.3029	0.1158	358.088	0.0

setTask1130	4	200	0.3350	14.089	711.765	0.00943021803520844
setTask1131	4	200	0.3300	0.1698	2.4	0.00812585726755088
setTask1132	4	200	0.3300	0.1386	257.919	0.009748119197489337
setTask1133	4	200	0.3450	10.459	23.267	0.008402336083626208
setTask1134	4	200	0.3500	0.0911	323.611	0.006413003804757016
setTask1135	4	144	0.3056	0.8514	345.455	0.00840810855676169
setTask1136	4	200	0.3600	0.0312	109.764	0.0072474635556470214
setTask1137	4	200	0.3800	14.940	343.333	0.008396737100485328
setTask1138	4	200	0.3350	13.243	106.923	0.006818206490770504
setTask1139	4	200	0.3450	0.1778	12.987	0.007139327383785003
setTask114	2	200	0.3250	0.1849	3.2	0.009100101112234565
setTask1140	4	200	0.3450	47.930	8.125	0.009126635663988306
setTask1141	4	200	0.3250	0.6756	357.143	0.008966051502071982
setTask1142	4	200	0.3300	0.5455	261.538	0.008987376303260845
setTask1143	4	98	0.3061	0.4763	169.551	0.0
setTask1144	4	200	0.3150	0.3629	390.741	0.009951142992532514
setTask1145	4	200	0.3500	10.324	267.273	0.009737914367659629
setTask1146	4	200	0.3200	0.2379	507.792	0.009913543848822171
setTask1147	4	200	0.3550	0.4677	883.333	0.00867158213836366
setTask1148	4	200	0.3400	0.1290	146.947	0.008690983967796773
setTask1149	4	200	0.3150	10.396	612.174	0.009875570735487619
setTask115	2	135	0.3111	0.1315	7.125	0.0
setTask1150	4	200	0.3450	0.3453	756.349	0.009799484775806245
setTask1151	4	200	0.3600	14.820	480.556	0.009474772016760967
setTask1152	4	200	0.3600	0.2441	311.228	0.00846632595542133
setTask1153	4	200	0.3400	16.429	231.621	0.007785220080362299
setTask1154	4	200	0.3400	11.606	886.667	0.005965563441647765
setTask1155	4	200	0.3900	0.7287	271.429	0.008848434131081027
setTask1156	4	200	0.3300	11.586	144.602	0.005041770518718127
setTask1157	4	200	0.4000	0.2847	509.091	0.006006926503921291

setTask1158	4	200	0.3600	0.2147	0.74001	0.009309816729791863
setTask1159	4	200	0.3500	15.872	382.692	0.007127793596068128
setTask116	2	140	0.3143	0.0960	172.069	0.0
setTask1160	4	200	0.3600	0.1065	0.721908	0.008247077956621413
setTask1161	4	200	0.3350	0.2139	137.045	0.0
setTask1162	4	200	0.3650	0.1506	239.234	0.00962541565068615
setTask1163	4	200	0.3400	21.818	5.75	0.007020521435016417
setTask1164	4	200	0.3700	0.9047	259.596	0.009372104832593311
setTask1165	4	200	0.3300	0.7663	158.333	0.0
setTask1166	4	200	0.3600	0.3313	675.362	0.009921318612339485
setTask1167	4	200	0.3700	0.1693	475.484	0.007097018787179723
setTask1168	4	200	0.3550	0.2478	255.152	0.008769116105288386
setTask1169	4	200	0.3550	124.538	328.226	0.008759005408913445
setTask117	2	114	0.3246	0.0607	4.75	0.0
setTask1170	4	200	0.3450	0.2028	5.625	0.009772769501071732
setTask1171	4	200	0.3500	0.5315	374.098	0.00960160451954067
setTask1172	4	200	0.3300	0.2128	395.238	0.009682945195490367
setTask1173	4	200	0.3300	0.9476	707.692	0.007935338077423687
setTask1174	4	200	0.3300	29.031	286.957	0.009590624599799391
setTask1175	4	200	0.3700	0.2002	259.231	0.009723092950601985
setTask1176	4	200	0.3500	0.0533	116.267	0.005527341524800492
setTask1177	4	180	0.3056	0.4329	27.807	0.008235330816982212
setTask1178	4	200	0.3450	0.0690	101.467	0.008758895234930654
setTask1179	4	200	0.3500	12.670	121.286	0.009812960545475478
setTask118	2	148	0.3041	0.0496	11.525	0.0
setTask1180	4	200	0.3450	0.1547	8.52	0.006674073762664172
setTask1181	4	200	0.3300	14.699	170.769	0.009987922564346097
setTask1182	4	200	0.3550	0.2492	9.125	0.005420219792482234
setTask1183	4	180	0.3167	0.1315	255.366	0.006587181441121483
setTask1184	4	200	0.3600	0.4557	134.327	0.009636943176717167

setTask1185	4	200	0.3800	16.129	581.955	0.008404011163329159
setTask1186	4	200	0.3500	0.2108	2.95	0.0073442172021841905
setTask1187	4	200	0.3500	12.792	260.847	0.002689376447996556
setTask1188	4	200	0.3500	0.3702	358.384	0.009901123179632964
setTask1189	4	200	0.3500	0.1153	144.474	0.009390900068409369
setTask119	2	138	0.3188	0.1078	723.077	0.0
setTask1190	4	200	0.3400	0.9089	211.706	0.009118258120001133
setTask1191	4	200	0.3600	0.8418	423.333	0.009728547005491512
setTask1192	4	200	0.3400	0.3604	829.762	0.009855635470801344
setTask1193	4	200	0.3350	0.1629	237.968	0.006317453725370352
setTask1194	4	132	0.3106	0.1090	301.596	0.00451610768560292
setTask1195	4	200	0.3600	0.1471	5.45	0.009479641107095335
setTask1196	4	200	0.3450	0.7929	267.533	0.009530999339448256
setTask1197	4	200	0.3800	0.2442	114.686	0.00849605138163496
setTask1198	4	200	0.3500	0.4126	114.563	0.00815235352287546
setTask1199	4	200	0.3750	0.4628	369.444	0.008531177415325684
setTask12	2	54	0.2037	0.0468	207.333	0.0
setTask120	2	150	0.3267	0.1635	539.963	0.0
setTask1200	4	200	0.5850	0.0158	271.429	0.005144498260234376
setTask1201	4	200	0.4300	0.3052	101.083	0.0
setTask1202	4	156	0.4167	0.1429	763.636	0.0
setTask1203	4	200	0.4900	0.1809	592.857	0.008872167844068427
setTask1204	4	200	0.4750	19.713	164.462	0.009851021584224398
setTask1205	4	200	0.4250	13.010	586.111	0.00773873880315618
setTask1206	4	200	0.4700	0.0312	331.818	0.0
setTask1207	4	200	0.4600	1.765.310	474.725	0.009935635799093546
setTask1208	4	200	0.4650	0.1088	400.681	0.009831685813516833
setTask1209	4	90	0.4222	0.0161	114.791	0.0
setTask121	2	140	0.3071	0.0469	173.559	0.0
setTask1210	4	200	0.4900	0.0690	79.283	0.006829187445708952

setTask1211	4	200	0.4700	47.634	895.364	0.008526608192250323
setTask1212	4	200	0.4500	0.4245	678.511	0.009104008234428224
setTask1213	4	200	0.4200	0.6529	139.617	0.009755825621585208
setTask1214	4	200	0.6050	0.0406	616.667	0.009915808219728739
setTask1215	4	200	0.4250	10.989	271.507	0.00994236496314116
setTask1216	4	154	0.4156	13.902	836.571	0.009292310884291161
setTask1217	4	200	0.4200	19.377	100.138	0.009135293895539848
setTask1218	4	200	0.5000	0.6852	418.966	0.00926916740206318
setTask1219	4	200	0.4750	0.2536	565.385	0.009956775181108797
setTask122	2	160	0.3063	0.1477	200.159	0.0
setTask1220	4	200	0.4400	15.422	200.492	0.009986808023619087
setTask1221	4	200	0.4500	0.0183	386.667	0.002049349969500512
setTask1222	4	200	0.4350	0.5546	32.75	0.009960918445520604
setTask1223	4	200	0.4450	0.2977	847.143	0.0063358184663006994
setTask1224	4	200	0.4450	0.0156	544.809	0.008584772924161089
setTask1225	4	168	0.4107	14.176	100.089	0.0
setTask1226	4	182	0.4121	12.280	508.158	0.009840161360565574
setTask1227	4	200	0.4550	0.3033	883.333	0.009386075386905269
setTask1228	4	200	0.5850	0.0182	100.115	0.008696060967905091
setTask1229	4	200	0.4850	0.3320	13.4	0.006662177185052275
setTask123	2	168	0.3036	0.1488	181.304	0.0
setTask1230	4	200	0.4700	0.1536	160.602	0.006505752580337335
setTask1231	4	200	0.4550	0.3159	544.118	0.009684162775671943
setTask1232	4	200	0.4600	0.1159	298.936	0.007831220733727261
setTask1233	4	200	0.4500	12.918	148.966	0.009556898254892754
setTask1234	4	200	0.4650	0.2334	564.286	0.009800981870101401
setTask1235	4	200	0.4550	13.958	806.757	0.009040372215686644
setTask1236	4	200	0.4250	0.1438	134.023	0.008664472892831291
setTask1237	4	200	0.4150	93.441	630.303	0.007689188393577348
setTask1238	4	200	0.4650	0.1689	8	0.009477687079452757

setTask1239	4	200	0.4250	31.685	12.859	0.008113482956951912
setTask124	2	200	0.3100	0.0687	663.636	0.007896221094157906
setTask1240	4	200	0.4650	0.1196	8.325	0.009025081279625893
setTask1241	4	200	0.4550	16.297	581.614	0.009084750943506354
setTask1242	4	200	0.4450	0.1521	931.111	0.0057225978568930655
setTask1243	4	200	0.4700	0.0821	483.333	0.00807034926080968
setTask1244	4	200	0.4800	0.1546	537.815	0.009483460139824682
setTask1245	4	200	0.4250	0.0313	133.917	0.0018467220683295368
setTask1246	4	200	0.4600	69.280	590.909	0.0023526863715289067
setTask1247	4	200	0.5750	0.0096	107.083	0.00849161488420318
setTask1248	4	200	0.4650	0.6658	400.909	0.009423887886020775
setTask1249	4	200	0.4550	0.2446	7.6	0.0038359161315399543
setTask125	2	189	0.3069	0.0632	9.8	0.0009592326139088814
setTask1250	4	200	0.4450	0.0625	161.339	0.002547350048352816
setTask1251	4	200	0.4450	0.3164	81.039	0.008582755236629564
setTask1252	4	200	0.5000	0.1515	508.333	0.008752924947757642
setTask1253	4	200	0.4300	0.7644	779.091	0.009328052885246232
setTask1254	4	200	0.4650	0.3583	100.099	0.009626013407650359
setTask1255	4	200	0.4200	0.0180	7.3	0.0018631610184293402
setTask1256	4	200	0.4600	0.2618	319.231	0.008768644845660008
setTask1257	4	200	0.4450	0.5808	100.092	0.009819075094590514
setTask1258	4	200	0.4200	0.1041	646.667	0.008585997437139545
setTask1259	4	200	0.4550	556.788	391.048	0.00999989104493111
setTask126	2	108	0.3056	0.0875	626.667	0.0
setTask1260	4	168	0.4048	114.989	623.333	0.005890190828185229
setTask1261	4	200	0.4250	0.0302	100.137	0.002075740033467519
setTask1262	4	200	0.4250	0.8788	215.072	0.009532351902122883
setTask1263	4	200	0.4400	13.127	255.686	0.007571733334324713
setTask1264	4	200	0.4750	18.962	9.72	0.009986394781585358
setTask1265	4	200	0.5150	0.3334	739.316	0.008957244838585274

setTask1266	4	200	0.4600	0.0991	138.478	0.004475914053944849
setTask1267	4	200	0.4950	0.2026	313.859	0.009835842886509601
setTask1268	4	132	0.4091	0.5182	5.85	0.0
setTask1269	4	168	0.4048	56.667	132.222	0.00971819862171835
setTask127	2	119	0.3193	0.0727	307.259	0.0
setTask1270	4	200	0.4700	10.114	8.525	0.009967811454715121
setTask1271	4	200	0.4400	23.552	592.045	0.009884515698221984
setTask1272	4	200	0.4450	0.4020	7.6	0.004609786118691477
setTask1273	4	200	0.4300	0.1655	821.667	0.009554757568719078
setTask1274	4	200	0.4750	0.1239	501.293	0.005949108984079933
setTask1275	4	200	0.5000	0.4139	143.917	0.008996548914995156
setTask1276	4	200	0.4600	0.2426	14.336	0.0057108763403752915
setTask1277	4	200	0.4250	0.6286	624.242	0.00989197361406021
setTask1278	4	200	0.4950	0.3112	476.364	0.009025819328346386
setTask1279	4	200	0.4500	0.8868	566.992	0.009510833239148595
setTask128	2	200	0.3250	0.0780	848.864	0.003232758620689604
setTask1280	4	200	0.4500	0.1159	159.375	0.0035833626372440025
setTask1281	4	200	0.4850	0.5361	828.846	0.00905537600631598
setTask1282	4	200	0.4700	0.1725	108.194	0.005035003417927007
setTask1283	4	180	0.4111	0.3969	587.302	0.009806491784003557
setTask1284	4	200	0.4350	0.3007	315.769	0.009024479879245756
setTask1285	4	190	0.4158	0.1003	649.242	0.00797332851415905
setTask1286	4	200	0.4350	0.5605	763.077	0.00935450288178053
setTask1287	4	200	0.4350	12.970	501.022	0.0030598918076648633
setTask1288	4	200	0.4750	66.471	120.909	0.009556984482858893
setTask1289	4	200	0.4700	49.547	548.377	0.009977484065667184
setTask129	2	84	0.3095	0.0820	200.922	0.0
setTask1290	4	200	0.4600	30.021	719.444	0.009887449558298237
setTask1291	4	200	0.6200	0.0309	113.571	0.003375228540077572
setTask1292	4	80	0.4125	0.7390	340.054	0.0

setTask1293	4	200	0.4550	0.4776	476.623	0.00840433506737001
setTask1294	4	200	0.5850	0.0337	8.2	0.008881237990666993
setTask1295	4	200	0.4250	0.3652	603.509	0.009575763616982107
setTask1296	4	200	0.4500	0.6635	100.071	0.009240782587869412
setTask1297	4	200	0.4600	0.0801	640.294	0.008301544406916949
setTask1298	4	180	0.4111	16.592	77.439	0.007491007194244515
setTask1299	4	200	0.4700	12.020	111.167	0.009955275464045992
setTask13	2	200	0.2100	0.1382	613.889	0.009228994424135472
setTask130	2	66	0.3030	0.0832	434.759	0.0
setTask1300	4	200	0.6100	0.2161	8	0.009576295697640961
setTask1301	4	96	0.5208	0.3069	371.714	0.0
setTask1302	4	200	0.6250	0.0303	938.889	0.004336158789794355
setTask1303	4	200	0.5350	0.1190	13	0.005934510460024369
setTask1304	4	200	0.7150	0.0703	100.064	0.009916395939952246
setTask1305	4	200	0.5500	15.587	379.762	0.006342112032879003
setTask1306	4	200	0.5150	69.757	5.65	0.006627490745156798
setTask1307	4	200	0.6800	0.0469	762.121	0.008414109680743779
setTask1308	4	200	0.5300	0.9779	109.714	0.009979186276542483
setTask1309	4	200	0.5550	82.439	765.517	0.009431171635448628
setTask131	2	90	0.3222	0.0519	9.5	0.0
setTask1310	4	200	0.5800	0.7520	194.444	0.008314642098035271
setTask1311	4	200	0.5450	14.269	5.125	0.009637978328229331
setTask1312	4	200	0.5350	61.425	13.8	0.009862279451194507
setTask1313	4	200	0.5650	0.1722	100.084	0.00544055622536662
setTask1314	4	180	0.5167	0.3126	134.941	0.005661750388795137
setTask1315	4	200	0.5600	0.0846	652.025	0.008608328242376378
setTask1316	4	200	0.5550	12.078	11.85	0.009988627153595378
setTask1317	4	200	0.5550	0.3198	445.837	0.008131215242515713
setTask1318	4	180	0.5056	0.5083	114.524	0.005857346768417611
setTask1319	4	200	0.5750	0.1007	62.663	0.009903741069696818

setTask132	2	200	0.3100	0.1314	705.455	0.0
setTask1320	4	126	0.5079	0.2930	9.25	0.007091490211745671
setTask1321	4	120	0.5250	0.3730	8.175	0.009915576933330323
setTask1322	4	200	0.5350	55.298	334.142	0.007807391069024815
setTask1323	4	200	0.5400	32.320	9.25	0.003948079599575345
setTask1324	4	168	0.5060	0.8494	242.769	0.008909459028054557
setTask1325	4	200	0.5800	0.0508	247.526	0.003485788376905445
setTask1326	4	200	0.5100	1.071.776	356.092	0.009708889773828127
setTask1327	4	200	0.6150	0.0312	596.023	0.004244037934996973
setTask1328	4	200	0.5650	0.1248	5.025	0.0035772690106280233
setTask1329	4	200	0.5200	57.827	374.725	0.008952003374952324
setTask133	2	96	0.3021	0.1132	27.55	0.0
setTask1330	4	144	0.5139	0.5624	11.36	0.009441427722528081
setTask1331	4	200	0.6250	0.0499	105.455	0.009979849400784743
setTask1332	4	200	0.5350	0.2319	3.95	0.005179763298469974
setTask1333	4	200	0.5650	0.0325	249.964	0.0036525008499693557
setTask1334	4	200	0.5400	0.4462	176.429	0.009015649821709297
setTask1335	4	120	0.5250	0.0305	783.175	0.008447204968946107
setTask1336	4	200	0.5750	0.0404	694.444	0.009035635228879284
setTask1337	4	200	0.5100	12.015	320.635	0.004099101814441787
setTask1338	4	84	0.5119	10.501	102.952	0.0
setTask1339	4	200	0.5950	0.0399	25.101	0.008970990165803279
setTask134	2	60	0.3167	0.0369	312.987	0.0
setTask1340	4	200	0.5850	0.1107	547.917	0.006038401694833014
setTask1341	4	200	0.5200	34.269	159.706	0.008905874996082128
setTask1342	4	200	0.5650	183.043	232.292	0.009766811863155103
setTask1343	4	200	0.5900	0.1314	733.333	0.00902907851068588
setTask1344	4	200	0.5600	0.0404	100.096	0.007640871839187601
setTask1345	4	200	0.5600	0.1319	52.619	0.0
setTask1346	4	180	0.5278	0.3319	837.955	0.008124777606490366

setTask1347	4	200	0.5250	0.3892	836.364	0.009768410778185925
setTask1348	4	200	0.5550	19.934	167.561	0.00969339539613173
setTask1349	4	200	0.5550	0.0156	521.111	0.0098285405753083
setTask135	2	88	0.3409	0.0257	379.337	0.0
setTask1350	4	200	0.5050	0.9395	4.65	0.0
setTask1351	4	140	0.5071	0.5568	978.571	0.009511605725783533
setTask1352	4	200	0.6550	0.0324	511.429	0.003175149704407857
setTask1353	4	200	0.5800	0.0183	267.628	0.005934097144096412
setTask1354	4	200	0.5750	0.0751	129.565	0.007252537634955582
setTask1355	4	200	0.5600	57.689	766.667	0.009708852991787706
setTask1356	4	200	0.5350	0.6098	717.857	0.00988538503626116
setTask1357	4	180	0.5167	56.601	506.349	0.009897716951191661
setTask1358	4	200	0.5550	0.0711	12.194	0.00892809027940405
setTask1359	4	200	0.5800	0.2208	146.174	0.008668503915963443
setTask136	2	170	0.3176	0.1404	736.364	0.0
setTask1360	4	132	0.5152	176.544	39.871	0.00968682946404765
setTask1361	4	200	0.5650	0.2929	133.333	0.009647722928842447
setTask1362	4	200	0.5300	26.702	791.852	0.009991272695966712
setTask1363	4	180	0.5444	0.2562	136.071	0.008784773080752527
setTask1364	4	132	0.5076	0.3373	165.333	0.006136212238781188
setTask1365	4	180	0.5111	10.245	581.818	0.009729082472666017
setTask1366	4	200	0.5750	0.1092	475.897	0.00899047093083855
setTask1367	4	130	0.5077	64.094	740.278	0.007667692965390784
setTask1368	4	180	0.5389	0.0926	5.3	0.0038938415821295337
setTask1369	4	200	0.5300	24.434	477.105	0.009252101866461665
setTask137	2	200	0.3200	0.0683	109.455	0.0019392372333518033
setTask1370	4	200	0.5750	0.0101	984.203	0.009202854255506909
setTask1371	4	180	0.5056	19.168	557.105	0.009705472860823555
setTask1372	4	200	0.5800	0.3790	150.962	0.009678072455935363
setTask1373	4	154	0.5195	0.3925	342.353	0.009281563249943529

setTask1374	4	200	0.5400	39.880	145.455	0.007060822889783696
setTask1375	4	156	0.5321	0.0938	843.333	0.004349610176447317
setTask1376	4	200	0.5600	0.0199	446.154	0.0050017658087714075
setTask1377	4	200	0.5300	179.171	876.623	0.009628722348160196
setTask1378	4	200	0.6800	0.0156	251.571	0.0031917638651370226
setTask1379	4	120	0.5083	0.5113	985.714	0.0
setTask138	2	198	0.3030	0.1277	424.109	0.0
setTask1380	4	200	0.5700	0.0356	20.25	0.007577734594867037
setTask1381	4	168	0.5060	0.8503	3.5	0.004592525889248948
setTask1382	4	200	0.5500	0.0904	540.385	0.008770726668520499
setTask1383	4	200	0.5200	0.5382	14.875	0.009923115301938875
setTask1384	4	200	0.5150	19.844	10.3	0.009837798799484713
setTask1385	4	200	0.5950	0.0288	522.222	0.005809511369747823
setTask1386	4	200	0.5550	0.2005	137.917	0.007955542873242337
setTask1387	4	200	0.5600	72.622	100.179	0.009487593086136187
setTask1388	4	200	0.5900	0.0312	136.667	0.004700278718848118
setTask1389	4	200	0.5400	144.470	8	0.009682203488558859
setTask139	2	200	0.3250	0.0709	482.143	0.0031847133757960788
setTask1390	4	144	0.5069	0.2891	939.091	0.008697244346790995
setTask1391	4	123	0.5041	5.000.276	75.023	0.041215456080663126
setTask1392	4	200	0.5300	75.592	533.333	0.009096429087088267
setTask1393	4	200	0.5400	0.2699	128.571	0.0092911394201709
setTask1394	4	100	0.5400	0.0972	888.889	0.0
setTask1395	4	168	0.5119	32.456	133.333	0.009261501210660281
setTask1396	4	144	0.5417	0.4231	958.333	0.00447552447552791
setTask1397	4	200	0.5200	0.6857	641.667	0.009407242891601464
setTask1398	4	200	0.5650	0.7408	303.167	0.009782601132703342
setTask1399	4	200	0.5600	0.0846	398.378	0.00875337748244363
setTask14	2	200	0.2400	0.0508	484.286	0.005489478499542524
setTask140	2	63	0.3333	0.0522	141.852	0.0

setTask1400	4	70	0.6286	0.2939	861.818	0.0
setTask1401	4	180	0.6167	0.8590	132.143	0.00755331753556481
setTask1402	4	200	0.6850	13.575	144.048	0.009972011294418794
setTask1403	4	200	0.6650	0.1516	9.25	0.006285201918882701
setTask1404	4	88	0.6364	0.4452	26.123	0.007943439753124865
setTask1405	4	200	0.6450	1.190.068	7.35	0.009479379686417442
setTask1406	4	112	0.6339	18.659	401.095	0.009344336321804926
setTask1407	4	120	0.6083	0.0797	102.051	0.0
setTask1408	4	200	0.7750	0.0439	485.714	0.009664482834910072
setTask1409	4	200	0.6100	186.757	853.846	0.009909136519250785
setTask141	2	80	0.3375	0.0339	171.925	0.0
setTask1410	4	140	0.6214	0.0476	34.375	0.0
setTask1411	4	84	0.6310	0.0691	46	0.0
setTask1412	4	180	0.6167	0.6415	128.571	0.0
setTask1413	4	200	0.6850	0.1132	784.615	0.008867630287530457
setTask1414	4	120	0.6250	0.2162	191.667	0.007062146892616817
setTask1415	4	200	0.6250	0.3371	9.2	0.0069408191948324505
setTask1416	4	170	0.6353	0.4238	146.333	0.008965350133268622
setTask1417	4	200	0.6750	0.0668	115.333	0.00570976614462428
setTask1418	4	140	0.6214	0.0608	157.857	0.0
setTask1419	4	98	0.6224	13.509	750.549	0.00940587062958199
setTask142	2	200	0.3400	0.0701	22.25	0.007504690431519674
setTask1420	4	180	0.6111	57.886	201.044	0.0068598985881703186
setTask1421	4	200	0.6500	0.0425	968.182	0.006868120999200836
setTask1422	4	84	0.6190	0.3703	11.098	0.005733309264783758
setTask1423	4	192	0.6198	0.7209	463.333	0.009852435901275786
setTask1424	4	200	0.6850	12.220	702.105	0.00955870975450668
setTask1425	4	140	0.6429	0.1003	492.593	0.008062108091967281
setTask1426	4	200	0.7050	0.1380	371.538	0.008545574472529394
setTask1427	4	200	0.6850	0.0223	7.475	0.004174216088632216

setTask1428	4	72	0.6528	0.0406	584.795	0.0076227173730944
setTask1429	4	192	0.6094	0.0505	6.4	0.0020856507230252756
setTask143	2	168	0.3095	0.1144	5	0.0
setTask1430	4	130	0.6385	0.1691	209.524	0.009696999788980443
setTask1431	4	100	0.6100	15.907	18.35	0.008409723334286337
setTask1432	4	200	0.7300	0.2461	121.486	0.009059987464169712
setTask1433	4	200	0.6450	0.1997	282.609	0.008235130244493651
setTask1434	4	144	0.6250	0.6975	695.238	0.009790026456455684
setTask1435	4	200	0.6950	0.0927	114.762	0.006020779673676941
setTask1436	4	200	0.6500	0.6335	698.413	0.009792869164958482
setTask1437	4	200	0.6250	77.050	516.585	0.007837454870266358
setTask1438	4	200	0.6300	0.2568	777.447	0.009441663342210001
setTask1439	4	56	0.6250	0.1628	401.429	0.009895391574780747
setTask144	2	165	0.3636	0.0372	874.621	0.006837798453088142
setTask1440	4	200	0.6600	0.3263	27.795	0.00862717494485345
setTask1441	4	200	0.6700	0.0292	428.571	0.008845963305196916
setTask1442	4	200	0.6300	33.927	384.163	0.009949377540333277
setTask1443	4	200	0.6600	10.859	139.464	0.0050461204557818076
setTask1444	4	84	0.6310	0.2482	7.05	0.00900021816751294
setTask1445	4	150	0.6133	0.4857	19.5	0.008252992371440726
setTask1446	4	180	0.6389	0.4347	13.6	0.007134203795937141
setTask1447	4	200	0.6950	0.0269	328.571	0.00816159743769126
setTask1448	4	200	0.6350	17.188	100.627	0.009644590122051497
setTask1449	4	200	0.7150	0.0182	101.173	0.0023950831663269345
setTask145	2	190	0.3053	0.1262	224.455	0.0
setTask1450	4	84	0.6190	0.1112	196.237	0.0037148827490133397
setTask1451	4	112	0.6339	0.2025	13.371	0.0
setTask1452	4	200	0.6800	68.891	371.014	0.009975611450624061
setTask1453	4	200	0.6450	0.0304	210.946	0.008061268389045015
setTask1454	4	200	0.6350	0.8939	143.002	0.009138321119865891

setTask1455	4	200	0.6600	14.711	121.511	0.007307641210694417
setTask1456	4	200	0.6650	88.245	693.276	0.007440684335197149
setTask1457	4	200	0.6950	0.1107	109.223	0.009358641511783535
setTask1458	4	130	0.6308	33.726	31.355	0.008514159896230156
setTask1459	4	200	0.6700	0.0156	166.957	0.007574328953178889
setTask146	2	168	0.3036	0.1775	10.111	0.0
setTask1460	4	160	0.6187	35.580	227.919	0.008747220163076603
setTask1461	4	200	0.7050	0.0101	134.277	0.007198489497286352
setTask1462	4	144	0.6319	0.4626	185.175	0.005611402583648161
setTask1463	4	144	0.6319	12.189	112.458	0.009959984639674553
setTask1464	4	200	0.6800	27.825	100.901	0.009796167179400584
setTask1465	4	200	0.7750	0.0345	23.237	0.007644928818768435
setTask1466	4	200	0.6400	0.0324	189.136	0.004129462129020744
setTask1467	4	200	0.6050	0.4463	11.712	0.006934790463455066
setTask1468	4	144	0.6181	0.3832	376.107	0.009910945130683583
setTask1469	4	168	0.6131	15.970	431.256	0.0024107526171527386
setTask147	2	200	0.3050	0.1240	512.992	0.0
setTask1470	4	120	0.6167	0.0920	147.047	0.008663008951777131
setTask1471	4	200	0.7550	0.0688	148.783	0.007825027060522604
setTask1472	4	112	0.6250	13.376	456.886	0.009557829696911895
setTask1473	4	190	0.6579	0.1158	266.652	0.007857142857142868
setTask1474	4	200	0.6850	0.0862	197.192	0.007511598489555814
setTask1475	4	200	0.6950	0.4279	175.462	0.009345695209447698
setTask1476	4	200	0.6550	72.594	0.992065	0.008533289359881934
setTask1477	4	200	0.7950	0.0340	122.096	0.008552399542600687
setTask1478	4	200	0.6250	0.4358	192.924	0.009059977716712256
setTask1479	4	180	0.6167	0.5885	101.198	0.0075225970349964135
setTask148	2	56	0.3036	0.0324	21.052	0.0
setTask1480	4	200	0.6300	545.206	30.122	0.009758639094804535
setTask1481	4	200	0.7000	80.753	351.495	0.008748300443267718

setTask1482	4	200	0.7700	0.0080	242.568	0.00873812220928463
setTask1483	4	165	0.6182	0.3417	0.896077	0.00959828898311261
setTask1484	4	200	0.6600	0.0382	319.458	0.007785416969652292
setTask1485	4	112	0.6250	0.2744	184.474	0.009000692360950335
setTask1486	4	88	0.6364	0.0484	0.890683	0.0057136920839196415
setTask1487	4	56	0.6250	0.0533	455.088	0.0
setTask1488	4	156	0.6538	0.0312	171.129	0.0
setTask1489	4	66	0.6818	0.0170	230.723	0.008175175336980908
setTask149	2	60	0.3167	0.0686	133.948	0.0
setTask1490	4	100	0.6500	0.0676	100.924	0.0
setTask1491	4	200	0.6450	0.4457	152.724	0.009677348348900213
setTask1492	4	200	0.6600	11.053	466.045	0.009652987196209061
setTask1493	4	112	0.6250	0.0750	135.368	0.00439001003488552
setTask1494	4	90	0.6556	0.0469	148.409	0.004591104734576607
setTask1495	4	200	0.6500	0.0625	129.255	0.009394201586455788
setTask1496	4	200	0.6500	0.4386	455.178	0.009405215951520171
setTask1497	4	200	0.6550	123.636	199.594	0.009848017025517583
setTask1498	4	138	0.6232	15.099	134.388	0.003940471547020749
setTask1499	4	180	0.6167	0.7822	149.861	1,74E+07
setTask15	2	200	0.2150	0.0827	201.326	0.001843317972350371
setTask150	2	110	0.3091	0.1178	156.172	0.008695652173903454
setTask1500	5	200	0.2700	13.762	186.701	0.009027487127248511
setTask1501	5	200	0.2800	0.4453	134.437	0.00999526615737771
setTask1502	5	200	0.2850	43.743	135.192	0.007109295169848891
setTask1503	5	200	0.2650	30.667	510.439	0.00790880735747388
setTask1504	5	200	0.2600	37.135	461.208	0.0064202544147055896
setTask1505	5	200	0.2600	65.909	290.443	0.009993161776080934
setTask1506	5	200	0.3100	923.794	100.884	0.009798184528860136
setTask1507	5	200	0.2400	17.447	122.948	0.003306921492130172
setTask1508	5	200	0.3200	5.000.230	234.297	0.048225395840027385

setTask1509	5	200	0.2850	1.969.043	160.157	0.009961153468470747
setTask151	2	72	0.3056	0.0675	155.054	0.0
setTask1510	5	200	0.2800	13.838	129.262	0.008678430349150857
setTask1511	5	200	0.2450	105.125	16.619	0.008972080105138716
setTask1512	5	200	0.3000	530.048	136.025	0.009481943155357673
setTask1513	5	200	0.2600	321.246	124.984	0.009638638138454175
setTask1514	5	200	0.2450	0.6778	189.637	0.00348117563924969
setTask1515	5	200	0.2800	216.441	154.259	0.009520821380991848
setTask1516	5	200	0.3050	0.9693	135.268	0.008865434994228202
setTask1517	5	200	0.2450	86.517	100.981	0.009270535175108074
setTask1518	5	200	0.2200	0.6032	20.087	0.0
setTask1519	5	200	0.2650	50.147	119.009	0.0
setTask152	2	98	0.3061	0.0502	206.292	0.0
setTask1520	5	200	0.2600	74.037	16.709	0.003663039515103904
setTask1521	5	200	0.2550	45.084	509.625	0.009912251346429141
setTask1522	5	200	0.2900	880.639	589.521	0.00970735533681864
setTask1523	5	200	0.2550	953.085	101.312	0.007085630351918891
setTask1524	5	200	0.2300	40.814	132.052	0.0
setTask1525	5	200	0.2550	439.291	233.109	0.009752821343664479
setTask1526	5	200	0.2500	72.357	211.042	0.008734576843148724
setTask1527	5	200	0.2450	728.933	160.267	0.00885072845623066
setTask1528	5	200	0.2250	0.4690	11.291	0.009992801660169186
setTask1529	5	200	0.2550	210.097	101.475	0.009111346776035189
setTask153	2	105	0.3143	0.0783	168.146	0.0
setTask1530	5	200	0.2500	554.680	207.538	0.00970009044921601
setTask1531	5	200	0.2850	0.2730	294.394	0.009909255049166607
setTask1532	5	200	0.2650	169.476	314.122	0.0
setTask1533	5	200	0.2550	877.045	191.987	0.009902567946163706
setTask1534	5	200	0.2650	39.315	538.346	0.00961918849537369
setTask1535	5	200	0.3100	1.502.348	134.614	0.009127569772419176

setTask1536	5	200	0.2600	207.184	141.569	0.0
setTask1537	5	200	0.2450	66.905	10.827	0.008702284648028144
setTask1538	5	200	0.2550	11.493	764.185	0.00916701628290283
setTask1539	5	200	0.2950	653.657	482.596	0.009308277993183511
setTask154	2	52	0.3077	0.0470	140.455	0.0
setTask1540	5	200	0.2700	0.2191	252.307	0.009915279815406545
setTask1541	5	200	0.2500	12.536	8.2	0.009857310139311288
setTask1542	5	200	0.2450	1.367.862	296.544	0.009934183656812924
setTask1543	5	200	0.2700	1.087.764	412.736	0.009880704086530037
setTask1544	5	200	0.2650	251.050	327.033	0.004476708019399895
setTask1545	5	200	0.2600	560.840	433.962	0.009433026695258303
setTask1546	5	200	0.2400	425.448	371.026	0.009776056268408648
setTask1547	5	200	0.3000	84.220	219.231	0.009453306052214963
setTask1548	5	200	0.2600	16.095	485.411	0.0
setTask1549	5	200	0.2800	292.332	487.099	0.00996685293050316
setTask155	2	126	0.3095	0.1416	230.539	0.009708737864077764
setTask1550	5	200	0.3150	1.207.740	171.543	0.009491707682932593
setTask1551	5	200	0.2800	52.734	176.637	0.008907517226400354
setTask1552	5	200	0.2850	973.918	322.745	0.00996706746734513
setTask1553	5	200	0.2500	98.942	222.679	0.009614856001961129
setTask1554	5	200	0.2350	627.042	360.985	0.00988988757684983
setTask1555	5	200	0.2350	163.442	250.833	0.0055147169760255115
setTask1556	5	200	0.2900	3.560.612	451.786	0.00989337550389973
setTask1557	5	200	0.2650	12.444	768.056	0.00959284344771432
setTask1558	5	200	0.2750	0.3590	684.325	0.00688089918990951
setTask1559	5	200	0.2550	1.621.818	245.205	0.009944139249105644
setTask156	2	190	0.3316	0.1149	340.103	0.0
setTask1560	5	200	0.2600	405.419	6.3	0.009564663331638815
setTask1561	5	200	0.2300	169.572	453.745	0.008835779327267746
setTask1562	5	200	0.2750	384.028	52.619	0.009895731738984557

setTask1563	5	200	0.2650	0.9017	930.952	0.006851218787564121
setTask1564	5	200	0.2850	896.085	216.374	0.00955225826594655
setTask1565	5	200	0.2850	245.249	437.222	0.009267203054490204
setTask1566	5	200	0.2750	120.756	67.619	0.0066752713099428665
setTask1567	5	200	0.2400	49.603	293.506	0.0
setTask1568	5	200	0.2700	845.096	428.063	0.007369857971577319
setTask1569	5	200	0.2800	780.616	320.229	0.008667058755423042
setTask157	2	108	0.3056	0.0489	281.111	0.0
setTask1570	5	200	0.3000	2.282.704	282.023	0.009956037630065482
setTask1571	5	200	0.2750	2.162.167	48.631	0.00994534951812482
setTask1572	5	200	0.2500	186.769	518.056	0.009576418225176995
setTask1573	5	200	0.2250	61.011	7.5	0.0
setTask1574	5	200	0.2900	837.194	397.807	0.009676228421896612
setTask1575	5	200	0.2450	30.080	451.645	0.009174837394242023
setTask1576	5	200	0.2400	10.940	629.592	0.007527784435410359
setTask1577	5	200	0.2400	62.183	874.041	0.009948235567179069
setTask1578	5	200	0.2650	27.559	0.978981	0.0010652521224515559
setTask1579	5	200	0.2300	53.256	367.679	0.009006666134119207
setTask158	2	120	0.3083	0.0988	290.351	0.0
setTask1580	5	200	0.2500	1.662.785	23.431	0.009816418023941448
setTask1581	5	200	0.2750	127.186	510.175	0.00955598529566327
setTask1582	5	200	0.2750	220.486	614.286	0.009519457400873226
setTask1583	5	200	0.2850	904.799	391.964	0.009777858239695202
setTask1584	5	200	0.2800	216.992	76.234	0.009632736033343399
setTask1585	5	200	0.3000	447.007	56.478	0.009446724878772182
setTask1586	5	200	0.2500	53.018	359.431	0.009952727007723115
setTask1587	5	200	0.2850	5.000.307	816.149	0.015378611803749264
setTask1588	5	200	0.3250	1.083.928	477.778	0.009274595868802507
setTask1589	5	200	0.2700	50.528	48.518	0.004260565621905919
setTask159	2	140	0.3071	0.0526	101.415	0.0

setTask1590	5	200	0.2400	144.067	323.834	0.007729079850637463
setTask1591	5	200	0.2700	311.784	485.542	0.008946027694981259
setTask1592	5	200	0.2300	0.8155	451.552	0.008621316660362317
setTask1593	5	200	0.2750	69.292	773.018	0.0
setTask1594	5	200	0.2300	92.565	109.942	0.003690198497162291
setTask1595	5	200	0.2250	78.129	866.658	0.008582716368192304
setTask1596	5	200	0.2650	74.931	101.811	0.007878288799024578
setTask1597	5	200	0.2600	11.778	256.744	0.009839370804789143
setTask1598	5	200	0.2450	1.509.640	508.235	0.009894310321169927
setTask1599	5	200	0.2950	791.755	218.566	0.009867978736205379
setTask16	2	180	0.2167	0.0424	768.726	0.0024283632831469323
setTask160	2	90	0.3111	0.0845	105.857	0.0
setTask1600	5	200	0.3600	3.431.683	367.137	0.009919926146306266
setTask1601	5	200	0.3650	1.048.717	25.669	0.009899718149245356
setTask1602	5	200	0.3600	5.000.199	47.498	0.04696773335586775
setTask1603	5	200	0.3350	0.6929	685.345	0.009556787000633612
setTask1604	5	200	0.3500	0.2161	454.048	0.009758973191137625
setTask1605	5	200	0.3500	0.2784	267.736	0.008764826625497558
setTask1606	5	200	0.4150	80.985	106.113	0.009188343118456673
setTask1607	5	200	0.3700	0.6059	289.725	0.009911546450534835
setTask1608	5	200	0.3450	0.2013	280.514	0.008910990725311489
setTask1609	5	200	0.3600	0.1405	205.793	0.009411901502315047
setTask161	2	72	0.3056	0.0798	247.619	0.0
setTask1610	5	200	0.4000	0.5013	168.773	0.00998189168763512
setTask1611	5	200	0.3650	711.430	778.571	0.009787680182602421
setTask1612	5	200	0.3200	95.484	256.161	0.009789260813418348
setTask1613	5	200	0.3600	2.612.639	865.678	0.009905202581704601
setTask1614	5	200	0.3350	39.095	563.333	0.007444799164385824
setTask1615	5	200	0.3350	5.000.189	801.042	0.04287829624934643
setTask1616	5	200	0.3350	814.782	173.672	0.009481376351251984

setTask1617	5	200	0.3450	62.964	303.616	0.0099538355167982
setTask1618	5	200	0.3750	14.647	739.615	0.009873191774199565
setTask1619	5	200	0.3600	0.0913	395.412	0.0052006311739048695
setTask162	2	80	0.3125	0.1194	372.742	0.0
setTask1620	5	200	0.3650	153.917	582.619	0.009850930160133558
setTask1621	5	200	0.3600	0.2005	553.896	0.007911316143985995
setTask1622	5	200	0.3350	3.127.562	857.487	0.009961804801738593
setTask1623	5	200	0.3450	0.6613	518.229	0.00992609015491152
setTask1624	5	200	0.3150	65.214	170.828	0.009215570242271369
setTask1625	5	200	0.3600	0.2005	406.384	0.009956216468411912
setTask1626	5	200	0.3700	5.000.267	481.579	0.045871370304573604
setTask1627	5	200	0.3700	0.2165	168.912	0.009658465911693026
setTask1628	5	200	0.3550	102.884	183.333	0.00967649354468799
setTask1629	5	200	0.3450	15.250	194.539	0.008924715367075413
setTask163	2	117	0.3675	0.0316	135.102	0.0
setTask1630	5	200	0.3550	0.6666	488.126	0.00796286888502175
setTask1631	5	200	0.3450	15.965	520.979	0.009778169324813537
setTask1632	5	200	0.3450	260.316	45.202	0.009160919482676127
setTask1633	5	200	0.3550	0.5823	33.447	0.009746858077514116
setTask1634	5	200	0.3450	184.672	6.6	0.009785472074560434
setTask1635	5	200	0.3750	1.955.914	163.752	0.009808159440529186
setTask1636	5	200	0.3600	0.3381	143.278	0.00983854266551375
setTask1637	5	200	0.3400	0.1146	334.219	0.00833982850974586
setTask1638	5	200	0.3700	190.968	116.414	0.00867175029074687
setTask1639	5	200	0.3750	1.886.554	420.723	0.00989101097986138
setTask164	2	84	0.3095	0.0910	21.649	0.0
setTask1640	5	200	0.3600	0.6728	475.618	0.009569133895356515
setTask1641	5	200	0.3850	5.000.250	32.753	0.05239297153959274
setTask1642	5	200	0.3650	196.775	375.741	0.00974192683511196
setTask1643	5	200	0.3250	30.814	201.575	0.0098061081232758

setTask1644	5	200	0.3450	0.3007	3.907	0.008546988499097005
setTask1645	5	200	0.4000	706.942	836.469	0.009812487308936387
setTask1646	5	200	0.3700	0.8727	24.898	0.007144044235900878
setTask1647	5	200	0.3600	5.000.147	471.146	0.021828806443188856
setTask1648	5	200	0.3400	82.831	195.602	0.008442618765997167
setTask1649	5	200	0.3450	12.305	37.912	0.009723211370001128
setTask165	2	200	0.3300	0.0962	472.072	0.007653061224487422
setTask1650	5	200	0.3300	517.992	400.645	0.009743174476715619
setTask1651	5	200	0.3900	46.609	229.286	0.008696826111898565
setTask1652	5	200	0.3550	0.9531	200.492	0.009476609029215034
setTask1653	5	200	0.3350	214.604	100.191	0.008502426565101012
setTask1654	5	200	0.3600	15.810	30.125	0.009949811505174202
setTask1655	5	200	0.3950	0.5014	500.588	0.00963389151325627
setTask1656	5	200	0.3350	473.785	569.375	0.00987844755095576
setTask1657	5	200	0.3400	286.214	115.828	0.0
setTask1658	5	200	0.3800	100.230	262.572	0.008301939843318323
setTask1659	5	200	0.3650	76.403	203.441	0.009576473004641541
setTask166	2	68	0.3088	0.0289	147.359	0.0
setTask1660	5	200	0.3750	82.976	912.379	0.009852952800680773
setTask1661	5	200	0.3750	0.5607	157.328	0.009464908903487853
setTask1662	5	200	0.3450	0.3227	756.004	0.008497355362004709
setTask1663	5	200	0.4100	1.191.637	400.847	0.009940025639772433
setTask1664	5	200	0.3500	0.2407	9.7	0.009739349682682929
setTask1665	5	200	0.3250	692.921	5.7	0.009961886556148707
setTask1666	5	200	0.4000	922.934	135.847	0.009925855389218799
setTask1667	5	200	0.3450	1.944.157	102.168	0.007436569412466145
setTask1668	5	200	0.3200	10.147	135.731	0.00434778934671147
setTask1669	5	200	0.3500	363.664	421.429	0.009965056984972843
setTask167	2	132	0.3409	0.0242	790.095	0.0
setTask1670	5	200	0.3450	11.676	268.703	0.009825639581940706

setTask1671	5	200	0.4000	199.672	83.875	0.009839084547722376
setTask1672	5	200	0.3600	36.216	711.429	0.007221273038817725
setTask1673	5	200	0.3450	22.612	667.952	0.009617111763101316
setTask1674	5	200	0.3950	1.167.203	535.579	0.00991221609826516
setTask1675	5	200	0.3650	0.4544	663.326	0.00920096525492042
setTask1676	5	200	0.3250	0.2848	77.119	0.009745403502352307
setTask1677	5	200	0.3650	198.470	268.719	0.009937340109249748
setTask1678	5	200	0.3350	470.571	47.723	0.009928054766217012
setTask1679	5	200	0.3600	140.467	544.133	0.009507883053132486
setTask168	2	200	0.3400	0.0997	100.208	0.009915014164305673
setTask1680	5	200	0.3400	19.271	908.824	0.009879351875557838
setTask1681	5	200	0.3600	132.473	955.215	0.009931144260533842
setTask1682	5	200	0.3650	0.6084	642.353	0.009363470776158206
setTask1683	5	200	0.3450	636.206	430.031	0.00983192709852724
setTask1684	5	200	0.3800	584.998	499.167	0.00982326416281255
setTask1685	5	200	0.3600	0.3082	127.874	0.008203233271681775
setTask1686	5	200	0.4200	151.815	100.878	0.009736917863129045
setTask1687	5	200	0.3550	85.128	146.619	0.007922068014720089
setTask1688	5	200	0.4000	1.548.238	220.296	0.009961376134424035
setTask1689	5	200	0.3650	907.096	293.733	0.0
setTask169	2	120	0.3250	0.0484	564.459	0.0
setTask1690	5	200	0.3350	406.668	422.281	0.009849629476506909
setTask1691	5	200	0.3500	560.984	536.508	0.009649860129522741
setTask1692	5	200	0.3800	80.233	20.299	0.009291528414743212
setTask1693	5	200	0.3300	0.1049	107.685	0.004861498031381611
setTask1694	5	200	0.4100	32.219	467.613	0.009291198452025555
setTask1695	5	200	0.3750	42.614	580.634	0.009238061378251746
setTask1696	5	200	0.3600	506.270	100.178	0.009929401122735167
setTask1697	5	200	0.3900	0.2007	351.568	0.009616098977149967
setTask1698	5	200	0.3850	880.386	214.629	0.009847599495206466

setTask1699	5	200	0.3700	504.019	909.617	0.009446220864283018
setTask17	2	200	0.2100	0.0855	629.439	0.009204470742932343
setTask170	2	198	0.3131	0.1316	136.014	0.0
setTask1700	5	200	0.4800	0.0503	691.818	0.00476454015437469
setTask1701	5	200	0.6350	0.0690	292.273	0.007217525372618742
setTask1702	5	200	0.4750	1.229.760	677.945	0.009992284385867346
setTask1703	5	200	0.4700	5.000.377	1.949	0.025941831359082353
setTask1704	5	200	0.4750	0.5958	160.619	0.009227025753662957
setTask1705	5	200	0.4350	417.113	122.917	0.008979651237345112
setTask1706	5	200	0.4200	16.605	773.214	0.009065709968395218
setTask1707	5	200	0.4450	1.385.309	684.392	0.009809758322275434
setTask1708	5	200	0.4950	0.0707	607.778	0.00926131915289335
setTask1709	5	200	0.4750	282.369	421.717	0.009688089317879378
setTask171	2	78	0.3205	0.0378	637.132	0.0
setTask1710	5	200	0.4200	77.931	190.669	0.00870834936185181
setTask1711	5	200	0.5000	0.0468	190.891	0.008616471993415423
setTask1712	5	200	0.4300	183.793	454.747	0.0
setTask1713	5	200	0.4400	0.3733	29.217	0.009406440127281972
setTask1714	5	200	0.5000	0.3432	531.147	0.00998793007237865
setTask1715	5	200	0.4250	0.1675	247.685	0.007491306811687327
setTask1716	5	200	0.5100	0.9867	906.108	0.009966925685978597
setTask1717	5	200	0.4400	244.774	5.083	0.007589748196254273
setTask1718	5	200	0.4150	122.720	106.801	0.009860348807338985
setTask1719	5	200	0.4550	134.622	504.618	0.009640850354039577
setTask172	2	150	0.3067	0.1228	801.875	0.0
setTask1720	5	200	0.4600	89.657	114.909	0.006574760987855491
setTask1721	5	200	0.4600	0.4428	333.571	0.008267477575881178
setTask1722	5	200	0.4550	12.585	190.333	0.009510950353594604
setTask1723	5	200	0.4850	0.2382	633.555	0.009963100335842821
setTask1724	5	200	0.4550	0.2725	236.132	0.008981816027467216

setTask1725	5	200	0.4400	0.8550	144.426	0.0057747078768729644
setTask1726	5	200	0.4850	731.792	943.215	0.00982762453415184
setTask1727	5	200	0.4200	0.8344	975.882	0.009804627061101733
setTask1728	5	200	0.4300	110.896	665.353	0.009987168595492982
setTask1729	5	200	0.4600	140.099	571.667	0.0
setTask173	2	112	0.3036	0.1213	145.727	0.0
setTask1730	5	200	0.4450	214.982	582.778	0.009681179701814646
setTask1731	5	200	0.5950	0.0195	114.462	0.008418472301713725
setTask1732	5	200	0.4250	103.687	628.986	0.00979327126233364
setTask1733	5	200	0.4450	261.237	173.087	0.0
setTask1734	5	200	0.4900	0.0792	100.344	0.004885300268900634
setTask1735	5	200	0.4650	375.283	47.814	0.009682941626824383
setTask1736	5	200	0.4950	21.565	114.305	0.00993038888598232
setTask1737	5	200	0.4700	1.021.049	501.947	0.009897911614240366
setTask1738	5	200	0.4800	1.644.651	52.076	0.00980176165732444
setTask1739	5	200	0.4950	0.8550	167.552	0.009979932524908072
setTask174	2	115	0.3304	0.0498	639.286	0.0
setTask1740	5	200	0.4700	2.274.947	173.174	0.00992095673879995
setTask1741	5	200	0.4750	18.611	187.895	0.009262449680751508
setTask1742	5	200	0.5650	291.231	188.917	0.009645644501461874
setTask1743	5	200	0.4650	0.2695	273.726	0.009964856013940116
setTask1744	5	200	0.5000	0.4268	703.472	0.008722613777643972
setTask1745	5	200	0.4400	1.693.003	202.194	0.009886026620897381
setTask1746	5	200	0.5250	624.671	148.458	0.00996742892534791
setTask1747	5	200	0.4450	1.102.730	105.606	0.009945046542826354
setTask1748	5	200	0.5600	0.0156	35.375	0.0059071612661362
setTask1749	5	200	0.4400	405.536	106.333	0.008761665517711176
setTask175	2	90	0.3111	0.1068	718.713	0.0
setTask1750	5	200	0.4200	0.6512	637.836	0.009833824583507834
setTask1751	5	200	0.4400	18.380	2	0.00901863184784754

setTask1752	5	200	0.4400	0.9706	763.415	0.009850075341036277
setTask1753	5	200	0.4600	3.655.011	145.071	0.009973754415169433
setTask1754	5	200	0.4750	0.2731	62.248	0.009129808891928007
setTask1755	5	200	0.4500	96.966	499.351	0.009195586515468571
setTask1756	5	200	0.4550	0.4864	955.955	0.009938080387398933
setTask1757	5	200	0.4300	0.2005	857.895	0.009183642210603802
setTask1758	5	200	0.4850	856.530	24.975	0.009924873976857998
setTask1759	5	200	0.5600	2.665.942	288.068	0.009971277751468338
setTask176	2	168	0.3036	0.1604	244.418	0.0
setTask1760	5	200	0.4400	258.896	883.333	0.00945567374434623
setTask1761	5	200	0.4200	12.703	81.645	0.00941206448531873
setTask1762	5	200	0.4400	82.263	130.952	0.009720226202303756
setTask1763	5	200	0.5050	17.213	106.444	0.009411398279743254
setTask1764	5	200	0.4200	526.442	28.5	0.008251744763805514
setTask1765	5	200	0.4600	0.2611	50.582	0.009016857599977232
setTask1766	5	200	0.4550	286.400	127.888	0.009921711310361845
setTask1767	5	200	0.4550	0.1699	136.759	0.009244994262661333
setTask1768	5	200	0.4250	128.197	335.896	0.005856742373292695
setTask1769	5	200	0.4700	64.866	75.169	0.009757493313643327
setTask177	2	200	0.3250	0.1354	868.182	0.0
setTask1770	5	200	0.4400	0.3471	137.692	0.00995538491483423
setTask1771	5	200	0.4750	0.8070	299.387	0.00858720415952761
setTask1772	5	200	0.4850	23.772	180.993	0.00998960702993904
setTask1773	5	200	0.4500	225.376	263.616	0.009726448690852804
setTask1774	5	200	0.5100	5.000.399	23.729	0.020836177991264002
setTask1775	5	200	0.4350	18.286	7.875	0.009559822389158085
setTask1776	5	200	0.4750	28.938	100.668	0.009948938978683533
setTask1777	5	200	0.6100	0.0404	588.831	0.004691959890449762
setTask1778	5	200	0.4650	85.950	414.167	0.009633525545418593
setTask1779	5	200	0.4300	0.0650	403.306	0.006968928527238116

setTask178	2	76	0.3026	0.0679	280.615	0.0
setTask1780	5	200	0.4350	120.880	113.624	0.009913109805838753
setTask1781	5	200	0.4850	5.000.249	806.667	0.0733337709135106
setTask1782	5	200	0.6200	0.0509	93.863	0.005372653918420691
setTask1783	5	200	0.4550	469.215	876.786	0.009770534040164343
setTask1784	5	200	0.5300	0.1390	827.411	0.006296009121250107
setTask1785	5	200	0.4900	0.3788	35.515	0.009548885147753872
setTask1786	5	200	0.4500	518.138	113.377	0.009675195022466528
setTask1787	5	200	0.5150	10.985	128.272	0.009557548289795628
setTask1788	5	200	0.4550	112.669	409.524	0.0
setTask1789	5	200	0.4550	0.3316	892.174	0.009537324707918626
setTask179	2	200	0.3100	0.1257	440.734	0.0
setTask1790	5	200	0.4650	0.2695	125.663	0.009882107271700885
setTask1791	5	200	0.4500	5.000.180	118.556	0.012228059868949334
setTask1792	5	200	0.4800	0.5679	115.159	0.00943005937872233
setTask1793	5	200	0.4500	2.772.785	204.206	0.009918740920021528
setTask1794	5	200	0.4800	197.305	327.436	0.009993375110803816
setTask1795	5	200	0.4900	23.482	11.486	0.009969203279077882
setTask1796	5	200	0.4850	0.5294	946.364	0.00862447981009691
setTask1797	5	200	0.5150	2.981.901	580.641	0.009939055786391118
setTask1798	5	200	0.4950	655.060	26.089	0.009839822119411252
setTask1799	5	200	0.4550	14.733	112.829	0.009975927884507544
setTask18	2	200	0.2400	0.0838	53.013	0.009805153991200749
setTask180	2	124	0.3065	0.1100	102.321	0.009920634920634877
setTask1800	5	200	0.5950	0.1514	102.756	0.007274922537353463
setTask1801	5	200	0.5600	140.420	479.286	0.009346182228579351
setTask1802	5	200	0.5600	740.866	125.775	0.00978045477106603
setTask1803	5	200	0.5500	13.534	853.623	0.008857648382383065
setTask1804	5	200	0.5650	0.6702	310.819	0.00915787687264481
setTask1805	5	200	0.5400	12.683	172.333	0.009534298713101075

setTask1806	5	200	0.5650	134.475	64.023	0.0
setTask1807	5	200	0.5350	69.078	15.3	0.0
setTask1808	5	200	0.6100	0.9567	12.8	0.008178629051765874
setTask1809	5	200	0.5350	209.011	345.139	0.009994467163278816
setTask181	2	62	0.3065	0.0691	986.667	0.0
setTask1810	5	200	0.5650	89.647	299.185	0.009316381079886037
setTask1811	5	200	0.5500	0.5012	705.455	0.0075377317394930265
setTask1812	5	200	0.6250	134.483	141.859	0.009810205652674441
setTask1813	5	200	0.6050	0.1849	137.745	0.009905717084013037
setTask1814	5	200	0.5550	0.1401	42.6	0.007131695094581459
setTask1815	5	200	0.5350	50.994	777.803	0.00992954596093462
setTask1816	5	200	0.5600	13.893	637.821	0.009884176035206083
setTask1817	5	200	0.5950	0.1740	402.757	0.00508738153528563
setTask1818	5	200	0.5500	0.8327	247.143	0.009489490831441004
setTask1819	5	200	0.5800	0.2713	145.577	0.009099926144210142
setTask182	2	108	0.3056	0.0957	104.524	0.0
setTask1820	5	200	0.5250	3.207.294	388.636	0.00994580570391509
setTask1821	5	200	0.5200	25.446	850.476	0.009374182422625629
setTask1822	5	200	0.5750	204.220	318.324	0.008927458328612336
setTask1823	5	200	0.5500	194.250	128.444	0.009924573637917794
setTask1824	5	200	0.5200	108.482	129.776	0.00988880170396234
setTask1825	5	200	0.6000	13.018	108.154	0.00987018646553522
setTask1826	5	200	0.6000	120.461	190.648	0.009787022297368395
setTask1827	5	200	0.5350	123.262	281.727	0.0
setTask1828	5	156	0.5192	35.439	108.385	0.009615390836036485
setTask1829	5	200	0.5700	12.670	989.286	0.009802852784016
setTask183	2	150	0.3067	0.1158	768.687	0.00733333333324447
setTask1830	5	200	0.5700	0.9892	397.143	0.00903200281966586
setTask1831	5	200	0.6850	0.0184	311.146	0.005885568465104037
setTask1832	5	200	0.6400	0.0640	12.2	0.00751888334105177

setTask1833	5	200	0.5500	0.0856	929.229	0.0021019078254851014
setTask1834	5	200	0.6000	5.000.310	123.838	0.010262729666454546
setTask1835	5	200	0.5200	121.588	208.095	0.009196635098840448
setTask1836	5	200	0.5350	100.844	512.778	0.009983222032544297
setTask1837	5	200	0.5850	13.728	326.352	0.009843039304731528
setTask1838	5	200	0.5550	81.352	13.368	0.009956865639524342
setTask1839	5	200	0.5600	92.959	170.175	0.008679765268298525
setTask184	2	85	0.3176	0.0222	205.669	0.0
setTask1840	5	200	0.5550	43.553	116.407	0.009996398445688556
setTask1841	5	200	0.5150	16.831	43.413	0.005366377207533219
setTask1842	5	200	0.5450	5.000.205	910.417	0.013441439068056199
setTask1843	5	200	0.5850	21.514	272.444	0.009946636794379992
setTask1844	5	200	0.5250	19.472	283.889	0.009812623405453389
setTask1845	5	200	0.5550	5.000.134	249.145	0.05138146828813824
setTask1846	5	120	0.5250	0.1811	117.929	0.009056389415542099
setTask1847	5	200	0.6000	125.787	163.462	0.009938805055544835
setTask1848	5	200	0.5600	64.957	45.75	0.008926502242494326
setTask1849	5	200	0.5600	0.2762	535.556	0.009789129459802507
setTask185	2	175	0.3086	0.1229	393.521	0.0
setTask1850	5	200	0.5650	19.806	112.549	0.00970862548950281
setTask1851	5	200	0.5800	0.0065	116.157	0.006779345854618778
setTask1852	5	200	0.5850	0.0182	115.061	0.009618469404417384
setTask1853	5	200	0.5550	171.763	10.023	0.00977997585781257
setTask1854	5	200	0.5150	0.1109	404.643	0.005760462372103083
setTask1855	5	200	0.5550	602.376	201.367	0.009991572807675533
setTask1856	5	200	0.5350	28.650	651.471	0.009566791274129927
setTask1857	5	200	0.5900	11.272	864.545	0.009596196355560895
setTask1858	5	200	0.5550	10.473	128.361	0.009881349663559247
setTask1859	5	200	0.5550	347.387	872.069	0.009669905986415171
setTask186	2	60	0.3167	0.0481	258.583	0.0

setTask1860	5	200	0.5700	0.8204	739.744	0.008696589717425596
setTask1861	5	200	0.5550	0.1310	102.621	0.007825304326866329
setTask1862	5	200	0.5600	5.000.217	867.647	0.012870267281365373
setTask1863	5	200	0.5950	0.2288	187.323	0.008686424811446535
setTask1864	5	200	0.5900	13.082	243.636	0.00988115427985264
setTask1865	5	200	0.5250	16.173	996.405	0.00845685220682325
setTask1866	5	200	0.5250	430.935	118.147	0.00956942198463484
setTask1867	5	200	0.5400	46.022	997.222	0.008775455271331504
setTask1868	5	200	0.5650	186.276	121.667	0.008390271257203671
setTask1869	5	200	0.6950	0.0585	6.25	0.0075873371755561456
setTask187	2	200	0.3400	0.1084	886.623	0.00642594859241129
setTask1870	5	200	0.6050	0.2200	109.451	0.009667504028795553
setTask1871	5	200	0.5700	1.342.018	134.872	0.009718313264565091
setTask1872	5	200	0.5550	0.1839	75.381	0.008984052235822939
setTask1873	5	200	0.6450	19.727	168.174	0.009719740076772747
setTask1874	5	200	0.5400	14.899	30.5	0.009889405913596699
setTask1875	5	200	0.5650	21.826	26.45	0.009834497381859946
setTask1876	5	200	0.5700	0.2279	124.703	0.009676354069244147
setTask1877	5	200	0.5800	0.0605	194.444	0.005654201783815638
setTask1878	5	200	0.5300	102.127	18.154	0.009766349193576957
setTask1879	5	200	0.5200	423.276	110.212	0.009028210061368653
setTask188	2	99	0.3131	0.0938	250.294	0.0
setTask1880	5	200	0.5350	174.017	124.911	0.009766388867632172
setTask1881	5	200	0.5400	1.412.811	198.051	0.0072336712894256715
setTask1882	5	200	0.6000	19.059	105.346	0.009903757921647945
setTask1883	5	200	0.6600	0.1380	102.483	0.009666896932895061
setTask1884	5	200	0.5850	0.0990	106.787	0.008909709305276669
setTask1885	5	200	0.5550	0.1692	347.356	0.006404704102670761
setTask1886	5	200	0.6000	0.2693	106.806	0.0088613167113696
setTask1887	5	200	0.5400	86.097	360.948	0.008650454515450056

setTask1888	5	200	0.5700	0.2003	12.25	0.004630982987932159
setTask1889	5	200	0.5650	0.3031	975.417	0.006219402756982217
setTask189	2	200	0.3050	0.1286	402.584	0.0
setTask1890	5	200	0.6350	242.605	675.188	0.009905482967270764
setTask1891	5	200	0.5550	176.317	922.857	0.009732106172758352
setTask1892	5	200	0.5450	73.981	233.824	0.00997773301545595
setTask1893	5	200	0.6150	11.467	702.482	0.009774736373398452
setTask1894	5	200	0.5800	0.3163	363.019	0.008970908053762843
setTask1895	5	200	0.6400	0.0952	117.111	0.009636187353826512
setTask1896	5	200	0.5950	5.000.261	808.333	0.01791496184257975
setTask1897	5	200	0.6100	0.1214	101.863	0.009919708959906473
setTask1898	5	200	0.5250	97.020	995.404	0.00994516729650975
setTask1899	5	200	0.5950	0.1772	132.611	0.009531508917365407
setTask19	2	200	0.2400	0.0588	194.517	0.0
setTask190	2	198	0.3030	0.1077	158.447	0.0
setTask1900	5	90	0.6111	47.538	193.781	0.009124448578577547
setTask1901	5	200	0.7300	10.367	2.602	0.009778182392493272
setTask1902	5	200	0.6350	353.690	117.872	0.009898093994183179
setTask1903	5	200	0.6300	0.4343	202.403	0.009321570024835212
setTask1904	5	200	0.8200	0.0304	18.462	0.005146728911932922
setTask1905	5	200	0.7050	0.2404	151.306	0.009744153151496753
setTask1906	5	200	0.6700	5.000.293	118.215	0.01847835059586966
setTask1907	5	200	0.6700	0.1158	27.767	0.004718045663622973
setTask1908	5	198	0.6212	41.052	315.108	0.00989127756064179
setTask1909	5	168	0.6131	10.847	228.985	0.009389970103552426
setTask191	2	52	0.3269	0.0309	142.151	0.0
setTask1910	5	200	0.6300	30.855	205.981	0.009189963696016656
setTask1911	5	200	0.6800	74.783	680.321	0.00814061657640343
setTask1912	5	200	0.6550	179.204	318.487	0.00918425522324926
setTask1913	5	200	0.7050	0.1820	124.584	0.009446467731485518

setTask1914	5	112	0.6250	0.2938	162.157	0.008402577539839294
setTask1915	5	200	0.7500	13.535	254.392	0.009997457959263507
setTask1916	5	200	0.6550	17.636	264.806	0.008496575471536967
setTask1917	5	200	0.6250	5.000.352	192.059	0.025124916408234013
setTask1918	5	120	0.6250	0.0792	224.127	0.003003521826484876
setTask1919	5	200	0.6400	492.073	10.364	0.00971402087800982
setTask192	2	120	0.3167	0.0456	202.061	0.0
setTask1920	5	200	0.8050	0.0383	183.485	0.009800946093412114
setTask1921	5	200	0.7000	0.1431	190.614	0.009880419342128202
setTask1922	5	200	0.6600	46.664	504.753	0.00996333744450317
setTask1923	5	144	0.6111	0.8952	203.875	0.008920857461015157
setTask1924	5	200	0.6500	16.295	294.153	0.009511057982248536
setTask1925	5	200	0.6600	16.576	268.606	0.009885659774392852
setTask1926	5	200	0.7050	14.165	229.079	0.009575498421117238
setTask1927	5	200	0.7150	14.531	161.329	0.00933661858921125
setTask1928	5	84	0.6071	147.169	102.823	0.009868938364495575
setTask1929	5	200	0.7400	0.2929	171.892	0.008847005033043823
setTask193	2	192	0.3073	0.0937	181.424	0.0
setTask1930	5	200	0.8550	0.0221	198.644	0.009354963340587814
setTask1931	5	200	0.6650	15.927	309.312	0.009628438217285824
setTask1932	5	200	0.6300	5.000.884	264.319	0.03607416380980426
setTask1933	5	200	0.6700	30.330	194.772	0.009943803645519604
setTask1934	5	200	0.7100	27.153	137.806	0.007598059451997773
setTask1935	5	200	0.6400	47.119	202.061	0.009894801764626097
setTask1936	5	200	0.7750	0.0605	180.866	0.008979121202480485
setTask1937	5	200	0.6350	391.217	173.662	0.009846361774588482
setTask1938	5	200	0.6500	1.639.904	135.526	0.009999650324670577
setTask1939	5	200	0.7050	0.1617	235.093	0.008901814682106126
setTask194	2	108	0.3148	0.0690	205.367	0.0
setTask1940	5	200	0.6700	0.2903	236.283	0.009924847429040427

setTask1941	5	200	0.6550	411.313	262.621	0.009930069238861163
setTask1942	5	200	0.7800	0.0403	183.397	0.007109526335388601
setTask1943	5	200	0.6350	10.101	188.522	0.009911583412085994
setTask1944	5	189	0.6190	0.7236	216.341	0.006746547665063421
setTask1945	5	200	0.7200	0.2003	151.293	0.009973681166683656
setTask1946	5	200	0.6800	0.9489	135.281	0.008431806411387351
setTask1947	5	200	0.6950	0.0378	132.993	0.004694524964206553
setTask1948	5	126	0.6111	0.8543	149.144	0.0
setTask1949	5	180	0.6222	13.616	225.545	0.009977565447338778
setTask195	2	165	0.3152	0.1465	483.265	0.0
setTask1950	5	180	0.6111	297.880	192.352	0.009813954652380885
setTask1951	5	200	0.6300	88.431	308.799	0.008917243341749285
setTask1952	5	140	0.6643	0.2727	102.374	0.008863113999817445
setTask1953	5	200	0.6550	40.126	181.814	0.009855972673481848
setTask1954	5	200	0.6800	701.747	127.416	0.009815833649329288
setTask1955	5	195	0.6359	0.4620	454.911	0.005011245084702641
setTask1956	5	200	0.7650	0.1713	206.774	0.009362642220628407
setTask1957	5	200	0.6350	71.642	168.537	0.009844102366866463
setTask1958	5	200	0.6650	0.2700	242.298	0.006229317471915121
setTask1959	5	200	0.6800	0.1428	20.014	0.00849616633718537
setTask196	2	90	0.3111	0.0667	239.541	0.0
setTask1960	5	200	0.7500	13.034	273.005	0.009543363096253815
setTask1961	5	200	0.7150	44.178	192.023	0.009964430851441627
setTask1962	5	200	0.7100	384.423	142.455	0.009889684842124567
setTask1963	5	200	0.6550	0.9915	32.104	0.0098901046010973
setTask1964	5	200	0.6600	0.0505	101.609	0.006479752607066609
setTask1965	5	200	0.6450	0.0993	170.032	0.008309383921797609
setTask1966	5	200	0.6250	145.520	123.271	0.009735642382671982
setTask1967	5	200	0.6750	24.893	191.875	0.009953581127078122
setTask1968	5	200	0.6400	74.349	164.897	0.009118106304705302

setTask1969	5	200	0.7100	1.347.848	282.514	0.009674758886972883
setTask197	2	176	0.3068	0.1695	124.945	0.009643916913946383
setTask1970	5	200	0.6350	54.087	301.774	0.008832579029519817
setTask1971	5	200	0.6300	13.703	12.802	0.009242952408052108
setTask1972	5	200	0.6900	2.665.773	188.605	0.009908304433380253
setTask1973	5	72	0.6111	0.8951	13.648	0.008000579376914204
setTask1974	5	200	0.6700	27.220	139.519	0.009986015503455781
setTask1975	5	200	0.6500	0.1266	136.937	0.009018320852134935
setTask1976	5	200	0.6500	296.339	286.875	0.009851550058133466
setTask1977	5	200	0.6800	0.3674	202.616	0.008368604603451194
setTask1978	5	200	0.6550	726.338	10.712	0.009530040902346854
setTask1979	5	200	0.7000	0.0385	150.042	0.0018458516592425318
setTask198	2	160	0.3250	0.0630	202.877	0.0
setTask1980	5	200	0.6600	0.3616	252.956	0.004393828507522977
setTask1981	5	200	0.6500	150.476	214.139	0.009396169239605541
setTask1982	5	84	0.6310	0.6226	154.725	0.009842968625463955
setTask1983	5	180	0.6111	62.357	247.193	0.00660031107159976
setTask1984	5	200	0.7800	0.0625	443.734	0.009887376486415324
setTask1985	5	200	0.7050	31.311	537.079	0.009992800444762574
setTask1986	5	200	0.6450	0.3916	163.918	0.007986441460025405
setTask1987	5	200	0.6600	0.0675	103.296	0.008879800378866287
setTask1988	5	200	0.7350	0.0929	140.871	0.008447940175235308
setTask1989	5	200	0.7650	0.9344	263.748	0.008869507574524853
setTask199	2	176	0.3068	0.2012	171.304	0.0
setTask1990	5	150	0.6267	0.1340	53.616	0.006290261646452705
setTask1991	5	200	0.7050	23.751	202.152	0.00995152300716655
setTask1992	5	200	0.6650	277.218	339.669	0.009602848342453384
setTask1993	5	200	0.6400	65.732	686.682	0.003424923176758823
setTask1994	5	200	0.6750	17.462	288.079	0.009945523902107907
setTask1995	5	200	0.6900	52.837	191.779	0.009771025575151818

setTask1996	5	200	0.6550	0.0348	628.348	0.0031549159079392467
setTask1997	5	200	0.6400	0.6491	262.749	0.009518057241141815
setTask1998	5	200	0.6950	755.392	345.264	0.009763512692621526
setTask1999	5	200	0.6700	0.7699	26.288	0.009065659080383787
setTask2	2	84	0.2024	0.0584	171.842	0.0
setTask20	2	200	0.2450	0.1012	464.224	0.0
setTask200	2	130	0.4308	0.1032	258.636	0.0
setTask2000	6	200	0.2550	2.024.788	34.224	0.009977939786769233
setTask2001	6	200	0.2650	284.569	102.898	0.00998818619348972
setTask2002	6	200	0.2750	622.877	751.228	0.0
setTask2003	6	200	0.2600	5.000.339	374.829	0.034986857715432446
setTask2004	6	200	0.2750	60.824	25.214	0.008276512047433989
setTask2005	6	200	0.2900	5.000.256	28.909	0.08287268560385436
setTask2006	6	200	0.2800	651.629	205.059	0.009350532802269088
setTask2007	6	200	0.2800	625.021	34.648	0.009927656518076384
setTask2008	6	200	0.2500	761.841	547.414	0.009708006737032005
setTask2009	6	200	0.2750	5.000.327	150.745	0.09106174462438493
setTask201	2	184	0.4239	0.1348	598.022	0.0
setTask2010	6	200	0.2550	5.000.194	245.712	0.11745321472732136
setTask2011	6	200	0.3000	884.567	123.457	0.00966149103077755
setTask2012	6	200	0.2800	5.000.151	42.312	0.21144944934410184
setTask2013	6	200	0.2700	5.000.192	170.479	0.05894264774020518
setTask2014	6	200	0.3050	5.000.163	363.102	0.10183272209370832
setTask2015	6	200	0.2650	1.461.793	763.778	0.009569758822225152
setTask2016	6	200	0.2600	866.360	649.427	0.009881635920191824
setTask2017	6	200	0.2900	5.000.141	302.528	0.06852327342748432
setTask2018	6	200	0.2850	5.000.248	144.573	0.1362842028647226
setTask2019	6	200	0.2600	5.000.203	420.692	0.07388185158881254
setTask202	2	200	0.4400	0.0751	264.842	0.005743696852155747
setTask2020	6	200	0.3050	5.000.201	418.199	0.06503422193987403

setTask2021	6	200	0.3350	4.563.312	241.171	0.00850704051471395
setTask2022	6	200	0.2900	5.000.266	816.027	0.05037155655018992
setTask2023	6	200	0.2650	92.256	242.797	0.009647255264193503
setTask2024	6	200	0.2550	167.708	304.522	0.008356437487022039
setTask2025	6	200	0.2850	5.000.167	208.743	0.12767601353737093
setTask2026	6	200	0.2500	5.000.263	146.501	0.06162891415064783
setTask2027	6	200	0.2950	5.000.131	384.181	0.0185838510664226
setTask2028	6	200	0.3000	5.000.426	647.449	0.11584025082942181
setTask2029	6	200	0.2600	5.000.208	351.778	0.03744073726450791
setTask203	2	120	0.4083	0.0778	102.921	0.0
setTask2030	6	200	0.2650	5.000.123	873.283	0.16343411579991482
setTask2031	6	200	0.2800	5.000.183	240.251	0.047737148607174505
setTask2032	6	200	0.2950	5.000.209	862.535	0.1473966182079901
setTask2033	6	200	0.2850	5.000.254	330.241	0.01771992057695268
setTask2034	6	200	0.3400	5.000.264	662.611	0.09723979722595075
setTask2035	6	200	0.2900	5.000.104	370.728	0.0956044558122171
setTask2036	6	200	0.2900	1.151.253	387.743	0.009980064330082541
setTask2037	6	200	0.3250	5.000.313	580.114	0.030604529689967425
setTask2038	6	200	0.2750	1.121.216	252.682	0.009963439245297346
setTask2039	6	200	0.2350	91.017	255.745	0.009567099872106214
setTask204	2	150	0.4133	0.0497	170.165	0.0
setTask2040	6	200	0.2600	1.907.545	252.387	0.006063665251032159
setTask2041	6	200	0.2900	5.000.312	101.996	0.07257472812379215
setTask2042	6	200	0.2550	5.000.291	359.744	0.14569308836735634
setTask2043	6	200	0.2900	1.100.284	170.554	0.009980777653526245
setTask2044	6	200	0.2550	1.855.586	238.499	0.009952421794319537
setTask2045	6	200	0.2900	1.682.288	331.048	0.009686844152947943
setTask2046	6	200	0.2900	5.001.248	306.069	0.08083389611560084
setTask2047	6	200	0.3100	5.000.239	563.638	0.088350410218057
setTask2048	6	200	0.2900	48.162	52.627	0.00977081341347648

setTask2049	6	200	0.2500	5.000.264	151.526	0.17022042484510413
setTask205	2	143	0.4266	0.1409	514.809	0.0
setTask2050	6	200	0.3050	5.000.138	106.489	0.18692434657180365
setTask2051	6	200	0.3050	5.000.113	298.994	0.13603508610998183
setTask2052	6	200	0.2500	1.852.016	434.132	0.00991979845561362
setTask2053	6	200	0.2500	5.000.282	224.137	0.19885967924347103
setTask2054	6	200	0.2700	5.000.183	208.401	0.16113130113317653
setTask2055	6	200	0.2650	1.326.045	122.637	0.009886551455297305
setTask2056	6	200	0.2500	5.000.263	25.583	0.18150247091372776
setTask2057	6	200	0.2850	1.146.578	492.276	0.009460517926456054
setTask2058	6	200	0.3150	478.509	170.489	0.009915268823913973
setTask2059	6	200	0.3000	5.000.324	299.084	0.1667830754150863
setTask206	2	150	0.4333	0.0719	720.398	0.004775549188156746
setTask2060	6	200	0.3150	5.000.167	280.938	0.1411458195302385
setTask2061	6	200	0.2850	5.000.313	114.873	0.05544941606725796
setTask2062	6	200	0.2600	5.000.229	792.857	0.061584392124567615
setTask2063	6	200	0.3450	47.369	875.782	0.009840131850552334
setTask2064	6	200	0.2650	883.518	399.094	0.003603819109597507
setTask2065	6	200	0.2650	189.458	867.341	0.009710442929714128
setTask2066	6	200	0.2650	0.8376	293.496	0.009571727889219896
setTask2067	6	200	0.2600	108.128	282.078	0.007800358970997383
setTask2068	6	200	0.3050	5.000.203	932.522	0.010995098029687116
setTask2069	6	200	0.3150	5.001.069	429.261	0.22852517682638523
setTask207	2	200	0.4350	0.0821	759.892	0.004927726675426931
setTask2070	6	200	0.2950	5.000.230	452.426	0.3739482029040113
setTask2071	6	200	0.3100	2.634.574	119.099	0.009998186416981148
setTask2072	6	200	0.2900	5.000.213	523.285	0.0946554709781512
setTask2073	6	200	0.3350	5.000.228	172.441	0.12892158787971839
setTask2074	6	200	0.2250	10.172	439.163	0.008058918358208876
setTask2075	6	200	0.3250	5.000.214	885.477	0.05292344001215616

setTask2076	6	200	0.2400	13.417	103.406	0.008123801487526132
setTask2077	6	200	0.2600	5.000.357	69.532	0.09792536435225824
setTask2078	6	200	0.2800	5.000.300	100.364	0.11809394483932127
setTask2079	6	200	0.2900	1.490.064	675.799	0.009947117448574709
setTask208	2	200	0.4300	0.1495	677.828	0.0
setTask2080	6	200	0.3000	5.000.228	203.012	0.06349610839979321
setTask2081	6	200	0.2750	1.104.630	51.701	0.009977766423364448
setTask2082	6	200	0.2600	5.000.310	981.192	0.18662078646900557
setTask2083	6	200	0.2450	577.059	275.547	0.009956826372720185
setTask2084	6	200	0.2900	2.548.157	408.549	0.009961209772861072
setTask2085	6	200	0.2850	5.000.285	27.013	0.10382432311316585
setTask2086	6	200	0.3000	3.422.937	103.967	0.009983031515864901
setTask2087	6	200	0.2600	5.000.277	336.498	0.18208411452519685
setTask2088	6	200	0.2500	5.000.124	850.101	0.07744874917813345
setTask2089	6	200	0.2600	5.000.206	95.734	0.04449467938272652
setTask209	2	105	0.4095	0.1461	811.674	0.0
setTask2090	6	200	0.3100	5.000.257	100.513	0.14909725954773653
setTask2091	6	200	0.2550	387.649	486.786	0.005825474229262321
setTask2092	6	200	0.2700	5.000.245	135.987	0.020807692364611625
setTask2093	6	200	0.2900	632.903	321.597	0.0014848383761209617
setTask2094	6	200	0.2750	2.246.529	10.407	0.009657384522884373
setTask2095	6	200	0.2500	0.7973	118.593	0.008766397601192973
setTask2096	6	200	0.2850	353.743	475.246	0.008497349786462353
setTask2097	6	200	0.2600	870.021	211.015	0.009988880246957935
setTask2098	6	200	0.3100	5.000.266	7.139	0.04346854878978187
setTask2099	6	200	0.2900	5.000.163	254.961	0.05196819579715107
setTask21	2	140	0.2071	0.1312	402.067	0.0018382352941173903
setTask210	2	140	0.4071	0.1002	61.076	0.004056795131845884
setTask2100	6	200	0.3550	782.530	699.562	0.008436253328439884
setTask2101	6	200	0.3950	5.000.257	971.244	0.02726072442548237

setTask2102	6	200	0.3700	5.000.129	100.406	0.027439309957622383
setTask2103	6	200	0.4050	5.000.297	923.944	0.03891881530068887
setTask2104	6	200	0.3700	5.000.262	271.292	0.02348147066365616
setTask2105	6	200	0.3450	1.341.224	971.575	0.009939743722205432
setTask2106	6	200	0.3800	5.000.244	102.239	0.010446496561618671
setTask2107	6	200	0.3600	1.271.051	584.099	0.00981048731273935
setTask2108	6	200	0.3400	5.000.376	110.075	0.025384340905186337
setTask2109	6	200	0.3400	328.091	422.989	0.007779283859902607
setTask211	2	112	0.4107	0.0781	12.748	0.0
setTask2110	6	200	0.3350	129.617	388.296	0.009750163115231787
setTask2111	6	200	0.3850	5.000.240	202.765	0.06669988004109129
setTask2112	6	200	0.3600	4.297.218	748.832	0.00998761713544691
setTask2113	6	200	0.3400	5.000.210	15.312	0.11872472941578906
setTask2114	6	200	0.3650	5.000.352	543.606	0.06908668220318571
setTask2115	6	200	0.3250	228.867	187.595	0.0
setTask2116	6	200	0.3700	5.000.357	191.431	0.11358489959767917
setTask2117	6	200	0.4050	204.425	202.711	0.009996181355286165
setTask2118	6	200	0.4550	5.000.238	262.937	0.11600299797946627
setTask2119	6	200	0.3350	5.001.216	469.663	0.026987042889972047
setTask212	2	72	0.4028	0.0851	100.384	0.0
setTask2120	6	200	0.3300	5.000.128	171.361	0.07577689859043756
setTask2121	6	200	0.4100	73.496	942.267	0.00998685506676206
setTask2122	6	200	0.3800	822.186	401.185	0.009181731301862256
setTask2123	6	200	0.3850	5.000.108	190.338	0.012368764381190653
setTask2124	6	200	0.3900	362.270	270.039	0.009906833945616216
setTask2125	6	200	0.4000	5.000.236	525.405	0.09749216665901313
setTask2126	6	200	0.3600	5.000.410	12.873	0.17863424206230305
setTask2127	6	200	0.3650	25.375	334.147	0.009359841968941808
setTask2128	6	200	0.3400	5.000.317	129.173	0.12759360182658702
setTask2129	6	200	0.3800	981.516	620.838	0.009802799335276528

setTask213	2	182	0.4121	0.1468	102.135	0.0
setTask2130	6	200	0.3600	119.937	527.196	0.009369080263702562
setTask2131	6	200	0.3700	17.453	510.216	0.009893483400318287
setTask2132	6	200	0.4100	5.001.165	376.249	0.15184784058136366
setTask2133	6	200	0.3650	94.705	560.527	0.009276304892644872
setTask2134	6	200	0.3850	1.306.819	112.467	0.007411914456425215
setTask2135	6	200	0.3850	961.936	500.798	0.009987181250216633
setTask2136	6	200	0.3850	5.000.351	204.835	0.08553553249497936
setTask2137	6	200	0.4200	414.954	202.472	0.008552217303156187
setTask2138	6	200	0.4350	5.000.089	271.165	0.010492302218133921
setTask2139	6	200	0.3750	0.6324	50.055	0.009815330129759008
setTask214	2	90	0.4111	0.1316	516.884	0.0
setTask2140	6	200	0.3400	5.000.351	595.257	0.16832991895273638
setTask2141	6	200	0.4000	5.000.052	736.623	0.1733646292725848
setTask2142	6	200	0.3850	144.332	525.794	0.009949288821916756
setTask2143	6	200	0.3600	17.129	128.326	0.009206098715519855
setTask2144	6	200	0.3900	2.897.844	222.638	0.00999360557959384
setTask2145	6	200	0.3650	1.247.119	930.163	0.009943629114374965
setTask2146	6	200	0.3500	956.610	128.199	0.009431232364563433
setTask2147	6	200	0.3500	350.060	546.339	0.00981204255016385
setTask2148	6	200	0.4300	5.000.989	10.394	0.2193071327648069
setTask2149	6	200	0.3850	230.796	503.239	0.009998604147145344
setTask215	2	154	0.4156	0.2066	209.907	0.0
setTask2150	6	200	0.3650	15.465	111.739	0.009685542374450854
setTask2151	6	200	0.3500	539.378	124.418	0.009836583343367483
setTask2152	6	200	0.3750	5.000.238	44.799	0.2161022903440651
setTask2153	6	200	0.3800	2.390.012	176.992	0.009760123923486146
setTask2154	6	200	0.4100	5.000.331	761.649	0.04514321320734549
setTask2155	6	200	0.3700	4.881.403	793.894	0.009990895987126389
setTask2156	6	200	0.3700	322.427	351.398	0.004885846203502229

setTask2157	6	200	0.4400	5.000.230	48.559	0.010816812173882216
setTask2158	6	200	0.3700	5.000.256	629.173	0.03169139331186037
setTask2159	6	200	0.3550	5.000.139	101.291	0.06746786931947876
setTask216	2	150	0.4067	0.0781	100.559	0.005706134094151193
setTask2160	6	200	0.3250	232.243	415.983	0.009714538041905902
setTask2161	6	200	0.3650	5.000.297	853.956	0.14820089961813732
setTask2162	6	200	0.3650	432.801	100.411	0.009765187709695842
setTask2163	6	200	0.3950	3.007.074	114.903	0.009984283453398133
setTask2164	6	200	0.4050	37.637	849.113	0.009956208134252202
setTask2165	6	200	0.3700	171.430	202.079	0.009781229991580905
setTask2166	6	200	0.3500	21.691	920.554	0.009768222361545216
setTask2167	6	200	0.3800	785.739	756.921	0.009991955454982302
setTask2168	6	200	0.3500	5.000.241	340.622	0.10967054050138111
setTask2169	6	200	0.4000	5.000.359	574.808	0.20740451595855616
setTask217	2	75	0.4133	0.1414	101.575	0.0
setTask2170	6	200	0.3650	5.000.678	318.505	0.09880798781813328
setTask2171	6	200	0.4100	2.200.421	102.539	0.009979172571159467
setTask2172	6	200	0.3650	5.000.242	698.205	0.1258775748230323
setTask2173	6	200	0.3900	0.9954	833.735	0.0077401210120915595
setTask2174	6	200	0.3900	262.793	103.253	0.009900712414028014
setTask2175	6	200	0.3650	330.886	105.281	0.009903716349930154
setTask2176	6	200	0.3900	24.915	55.568	0.009899837416816855
setTask2177	6	200	0.3500	5.000.258	129.861	0.03625472840606061
setTask2178	6	200	0.4050	0.3407	119.068	0.009374432240295995
setTask2179	6	200	0.3650	1.297.333	739.294	0.009999572011361101
setTask218	2	177	0.4520	0.0988	201.918	0.0
setTask2180	6	200	0.3300	49.248	103.173	0.004742394990314473
setTask2181	6	200	0.3900	1.315.835	249.769	0.009879434957721533
setTask2182	6	200	0.3850	5.000.267	114.656	0.044883885060119255
setTask2183	6	200	0.3350	51.018	22.316	0.008835931693294741

setTask2184	6	200	0.3550	5.000.238	527.652	0.017437632334262366
setTask2185	6	200	0.3750	5.000.316	323.804	0.0846607191855605
setTask2186	6	200	0.4100	5.000.392	427.863	0.011113830416552877
setTask2187	6	200	0.3500	5.000.387	106.763	0.01405509376575682
setTask2188	6	200	0.3650	671.427	414.312	0.007969996097059586
setTask2189	6	200	0.3850	1.366.744	576.193	0.009897091660144033
setTask219	2	96	0.4167	0.0738	974.782	0.0
setTask2190	6	200	0.3550	1.686.552	58.663	0.009782703013175006
setTask2191	6	200	0.3750	5.000.192	810.345	0.0788772790375748
setTask2192	6	200	0.3700	110.248	100.621	0.009733165685830074
setTask2193	6	200	0.4200	3.616.092	296.394	0.009997128761242018
setTask2194	6	200	0.4150	5.000.287	970.016	0.13374297256843418
setTask2195	6	200	0.4000	5.000.143	12.2	0.06043554901091925
setTask2196	6	200	0.3550	92.304	505.781	0.00998515518696023
setTask2197	6	200	0.4450	1.071.995	118.169	0.009984937914641933
setTask2198	6	200	0.3800	896.031	325.122	0.008924242881304409
setTask2199	6	200	0.4200	94.636	171.738	0.009980474451003953
setTask22	2	200	0.2200	0.0519	191.667	0.0
setTask220	2	200	0.4350	0.0160	502.668	0.007436787307882309
setTask2200	6	200	0.4600	27.568	526.635	0.009975499975485982
setTask2201	6	200	0.4550	154.512	259.106	0.00943165654216764
setTask2202	6	200	0.4600	20.763	100.413	0.009944072382924262
setTask2203	6	200	0.4350	1.033.485	203.985	0.009881729549612731
setTask2204	6	200	0.4700	0.0728	104.108	0.009825009671865151
setTask2205	6	200	0.4200	5.000.490	574.945	0.05658008112088118
setTask2206	6	200	0.4950	5.000.202	338.227	0.09338448474448038
setTask2207	6	200	0.4750	0.9449	585.611	0.009591647673224214
setTask2208	6	200	0.4250	5.000.111	293.578	0.028456267202236058
setTask2209	6	200	0.4550	423.991	247.076	0.009905860891508989
setTask221	2	200	0.4150	0.0432	696.818	0.002986560477849481

setTask2210	6	200	0.4650	36.313	762.902	0.00996103147079244
setTask2211	6	200	0.4500	17.264	253.142	0.009999285743045663
setTask2212	6	200	0.4600	261.979	102.991	0.008763413645035772
setTask2213	6	200	0.4550	622.854	494.534	0.007625893660765468
setTask2214	6	200	0.5550	81.917	101.313	0.009759523086308602
setTask2215	6	200	0.4350	5.000.234	100.408	0.07745229034813654
setTask2216	6	200	0.5150	150.672	402.709	0.009470400583364945
setTask2217	6	200	0.4950	14.075	583.916	0.009899717737822082
setTask2218	6	200	0.5000	1.785.141	992.987	0.009993364335975245
setTask2219	6	200	0.5400	223.033	896.003	0.009056436959770688
setTask222	2	200	0.4050	0.0341	113.265	0.0
setTask2220	6	200	0.4500	2.535.162	146.953	0.009956560214224733
setTask2221	6	200	0.5000	5.000.380	593.025	0.02082086859364465
setTask2222	6	200	0.4650	51.327	170.295	0.009992981897586637
setTask2223	6	200	0.4950	233.955	146.247	0.009287621360545084
setTask2224	6	200	0.4500	5.000.213	189.338	0.033258671220812025
setTask2225	6	200	0.5050	5.000.314	71.685	0.1323756364487963
setTask2226	6	200	0.5400	0.9661	959.914	0.009555044436118055
setTask2227	6	200	0.5200	115.170	361.326	0.006757436411842749
setTask2228	6	200	0.4350	389.580	37.995	0.009449210748633714
setTask2229	6	200	0.4450	10.150	232.786	0.009993168178424043
setTask223	2	70	0.4143	0.0253	498.423	0.0
setTask2230	6	200	0.6400	0.0542	100.319	0.007073221117816215
setTask2231	6	200	0.4700	0.5352	451.602	0.00923521006886521
setTask2232	6	200	0.4400	44.033	170.903	0.009862640015543324
setTask2233	6	200	0.4650	5.000.234	179.752	0.0228313972125791
setTask2234	6	200	0.4850	79.551	894.442	0.009501473337673568
setTask2235	6	200	0.4950	5.000.287	278.833	0.03506088274273252
setTask2236	6	200	0.4850	3.305.635	477.363	0.009977333837454493
setTask2237	6	200	0.4850	5.000.276	647.419	0.10219949134092945

setTask2238	6	200	0.4500	11.249	110.244	0.009734733087868876
setTask2239	6	200	0.4600	160.640	474.561	0.009873438767542635
setTask224	2	156	0.4295	0.0668	253.481	0.0
setTask2240	6	200	0.4850	5.000.374	852.919	0.09715442611432852
setTask2241	6	200	0.4700	135.895	166.413	0.009604859473720124
setTask2242	6	200	0.5000	664.623	105.952	0.008224668053995816
setTask2243	6	200	0.4900	5.000.809	544.534	0.06996815361401484
setTask2244	6	200	0.4750	5.000.278	342.028	0.031612168585518595
setTask2245	6	200	0.4600	5.001.167	158.344	0.08672139673473853
setTask2246	6	200	0.5150	295.874	652.661	0.00901588023313167
setTask2247	6	200	0.4600	5.000.183	426.167	0.12102444009386239
setTask2248	6	200	0.4850	1.291.893	70.057	0.009992002219640536
setTask2249	6	200	0.4850	5.000.311	600.165	0.049129608880106306
setTask225	2	200	0.4200	0.0584	391.944	0.006058543226680343
setTask2250	6	200	0.5250	83.170	572.605	0.009989008990098821
setTask2251	6	200	0.5300	33.714	200.388	0.00980390679783337
setTask2252	6	200	0.4550	4.418.267	135.417	0.009928751813141703
setTask2253	6	200	0.4700	72.208	938.636	0.0061677224548340156
setTask2254	6	200	0.4950	1.053.599	159.598	0.002958878495186127
setTask2255	6	200	0.4650	10.327	105.616	0.00898087701001258
setTask2256	6	200	0.5100	13.847	167.465	0.00999060183145595
setTask2257	6	200	0.4850	69.443	359.459	0.009634779948368172
setTask2258	6	200	0.4950	132.699	77.316	0.009133785257718319
setTask2259	6	200	0.6400	0.0911	199.294	0.005793893448304516
setTask226	2	54	0.4074	0.0156	164.473	0.007462686567164108
setTask2260	6	200	0.4450	0.0799	287.053	0.007967151208559002
setTask2261	6	200	0.4750	5.000.380	854.129	0.08257436666778552
setTask2262	6	200	0.4800	5.000.178	156.301	0.02643798798048321
setTask2263	6	200	0.4850	19.144	115.774	0.009485368217827294
setTask2264	6	200	0.4650	26.521	200.111	0.00997164682473501

setTask2265	6	200	0.4800	5.000.284	103.008	0.06892492071801126
setTask2266	6	200	0.4950	5.000.255	885.167	0.08067438517609943
setTask2267	6	200	0.4750	83.319	327.407	0.009231465132392069
setTask2268	6	200	0.4700	10.576	150.579	0.009991131096812253
setTask2269	6	200	0.4550	83.875	117.993	0.009869476950450392
setTask227	2	200	0.4450	0.0855	384.908	0.005663939584641029
setTask2270	6	200	0.4500	5.000.285	107.273	0.07730538010952225
setTask2271	6	200	0.5100	111.651	240.001	0.009973600508848738
setTask2272	6	200	0.4650	95.205	345.667	0.009839136115902139
setTask2273	6	200	0.4400	5.000.212	521.402	0.07143928320693003
setTask2274	6	200	0.5150	0.4618	273.154	0.009989243220156
setTask2275	6	200	0.4400	1.202.352	107.255	0.009920462275699916
setTask2276	6	200	0.4650	5.000.264	735.287	0.04435783850325635
setTask2277	6	200	0.5200	5.000.224	230.169	0.03647913137872205
setTask2278	6	200	0.4650	5.000.265	658.775	0.13105019233896675
setTask2279	6	200	0.5150	254.123	126.698	0.00978469850313399
setTask228	2	136	0.4265	0.0937	141.931	0.0
setTask2280	6	200	0.4400	5.000.195	254.545	0.04429134241477256
setTask2281	6	200	0.4900	5.000.283	397.661	0.027391056981812278
setTask2282	6	200	0.4850	5.000.233	50.242	0.01042031951961258
setTask2283	6	200	0.4750	1.794.417	128.366	0.00985618038128568
setTask2284	6	200	0.4950	130.376	428.006	0.00998327449719953
setTask2285	6	200	0.4600	250.567	184.435	0.00997492282599507
setTask2286	6	200	0.4800	1.848.177	520.238	0.004843650458873606
setTask2287	6	200	0.4650	180.133	376.418	0.009889402230736958
setTask2288	6	200	0.4700	197.531	141.438	0.009978675969187431
setTask2289	6	200	0.4350	692.262	196.347	0.009878549924864964
setTask229	2	136	0.4265	0.0704	206.138	0.0
setTask2290	6	200	0.4550	291.887	205.481	0.00958908400811104
setTask2291	6	200	0.4750	0.1108	981.169	0.008371348835133059

setTask2292	6	200	0.4350	0.6588	10.981	0.009978778112644034
setTask2293	6	200	0.4550	442.519	842.143	0.009664765128203082
setTask2294	6	200	0.5100	0.5378	232.279	0.009981916834477442
setTask2295	6	200	0.5100	128.103	381.456	0.009675381421978706
setTask2296	6	200	0.4500	145.619	140.143	0.009643363138517762
setTask2297	6	200	0.4550	1.157.860	319.965	0.009963833292317528
setTask2298	6	200	0.5150	5.000.186	677.412	0.14408650910928758
setTask2299	6	200	0.4750	5.000.335	131.442	0.012171444853648789
setTask23	2	200	0.2100	0.0729	21.85	0.0
setTask230	2	54	0.4074	0.0442	462.407	0.0
setTask2300	6	200	0.6150	5.000.501	209.078	0.015932557589535653
setTask2301	6	200	0.5500	5.001.414	678.241	0.04315357807195108
setTask2302	6	200	0.6000	1.574.648	125.936	0.009795211681459052
setTask2303	6	200	0.5750	5.000.374	153.409	0.055040351889231245
setTask2304	6	200	0.5600	10.732	16.289	0.009058303398188016
setTask2305	6	200	0.5650	5.000.312	36.131	0.05719391099173614
setTask2306	6	200	0.5600	5.000.361	193.838	0.013844052165999645
setTask2307	6	200	0.5950	5.000.285	283.777	0.03613696098421315
setTask2308	6	200	0.6200	698.277	111.534	0.009036344691943017
setTask2309	6	200	0.5750	5.000.360	42.047	0.036061607496193665
setTask231	2	154	0.4026	0.0963	126.155	0.007092198581560334
setTask2310	6	200	0.5850	0.6077	73.571	0.009503062063517862
setTask2311	6	200	0.5550	247.939	133.829	0.009410995892579762
setTask2312	6	200	0.6250	1.680.515	587.083	0.009942632576598267
setTask2313	6	200	0.6400	0.8337	149.122	0.009066290469370346
setTask2314	6	200	0.6050	5.000.218	111.426	0.019430094308872242
setTask2315	6	200	0.6150	11.622	162.707	0.009995223729008426
setTask2316	6	200	0.5600	299.437	110.577	0.009759041835679457
setTask2317	6	200	0.5800	439.465	408.564	0.009968587432808382
setTask2318	6	200	0.6400	1.186.205	138.006	0.009955342811728284

setTask2319	6	200	0.7350	0.1008	645.826	0.009768378168369975
setTask232	2	196	0.4031	0.0928	737.841	0.0
setTask2320	6	200	0.5650	0.0914	128.259	0.009589423539057113
setTask2321	6	200	0.5900	5.000.195	423.619	0.0331584585072533
setTask2322	6	200	0.5500	254.257	751.669	0.0053897674042720995
setTask2323	6	200	0.5300	214.825	468.333	0.00940322628476919
setTask2324	6	200	0.5650	421.174	310.467	0.009934977348570417
setTask2325	6	200	0.6200	31.889	178.406	0.009384567445659749
setTask2326	6	200	0.5500	995.564	748.834	0.009236207429797638
setTask2327	6	200	0.6050	1.452.175	106.185	0.009961459797398523
setTask2328	6	200	0.6550	3.224.421	236.181	0.009175304258633388
setTask2329	6	200	0.6500	0.0455	155.125	0.006278081740399436
setTask233	2	84	0.4048	0.0180	108.625	0.009259259259257921
setTask2330	6	200	0.6100	5.000.419	167.605	0.030192359952990477
setTask2331	6	200	0.5600	5.000.213	113.871	0.018785304311903672
setTask2332	6	200	0.5750	5.001.132	179.618	0.023405393157971636
setTask2333	6	200	0.5900	1.529.266	103.583	0.009836105099545233
setTask2334	6	200	0.6200	5.000.368	185.171	0.06773427742850868
setTask2335	6	200	0.5700	5.000.218	145.848	0.019135198311654885
setTask2336	6	200	0.5850	5.000.231	815.889	0.027588360242200374
setTask2337	6	200	0.5450	790.687	345.357	0.009369105831693968
setTask2338	6	200	0.5900	0.6351	272.434	0.009044098968979123
setTask2339	6	200	0.5550	0.4969	163.954	0.009227903830818125
setTask234	2	200	0.4350	0.0110	185.537	0.002739726027397372
setTask2340	6	200	0.5950	319.216	163.252	0.009949112469282864
setTask2341	6	200	0.6750	0.2126	121.818	0.009860891395401618
setTask2342	6	200	0.6250	5.000.318	268.077	0.03476058559770653
setTask2343	6	200	0.5500	1.357.570	418.007	0.009913273695269202
setTask2344	6	200	0.5650	5.001.019	251.456	0.05863040670066103
setTask2345	6	200	0.6350	5.000.374	784.512	0.07890026557409456

setTask2346	6	200	0.5650	0.5965	955.995	0.009694883694281651
setTask2347	6	200	0.5700	1.416.023	141.242	0.009861253500401972
setTask2348	6	200	0.5600	5.000.300	251.753	0.04871771044063515
setTask2349	6	200	0.5850	0.4912	103.028	0.009754993213060831
setTask235	2	200	0.4300	0.0469	269.876	0.0017598994343179348
setTask2350	6	200	0.5550	14.244	318.615	0.009962875888000301
setTask2351	6	200	0.5500	5.000.273	452.677	0.013636023336899136
setTask2352	6	200	0.5800	1.115.641	215.978	0.009993401252350407
setTask2353	6	200	0.5750	5.000.256	19.286	0.07129128541109282
setTask2354	6	200	0.5550	18.170	118.848	0.00992677813047549
setTask2355	6	200	0.6000	306.734	170.338	0.009907984508190797
setTask2356	6	200	0.6000	176.843	127.278	0.009706278938696099
setTask2357	6	200	0.6150	155.796	289.949	0.009983818027647313
setTask2358	6	200	0.5800	1.554.958	183.095	0.009929997427263436
setTask2359	6	200	0.5600	207.341	252.937	0.00962742891931598
setTask236	2	184	0.4076	0.0289	16.469	0.00203217612193056
setTask2360	6	200	0.5400	5.000.378	205.489	0.05889618721338827
setTask2361	6	200	0.5450	355.052	198.687	0.009854258792298946
setTask2362	6	200	0.5550	69.101	527.724	0.00999586694864843
setTask2363	6	200	0.6050	0.7792	105.266	0.008617100664686373
setTask2364	6	200	0.5600	189.548	154.413	0.009913441481926879
setTask2365	6	200	0.6150	0.3194	183.797	0.009465028074797136
setTask2366	6	200	0.6100	81.570	256.908	0.00998241554964366
setTask2367	6	200	0.5650	153.732	548.243	0.00994781646375122
setTask2368	6	200	0.5850	179.310	143.244	0.0025292903624717917
setTask2369	6	200	0.5500	4.797.428	115.146	0.009971121325591161
setTask237	2	158	0.5506	0.0139	159.029	0.0016650808753568337
setTask2370	6	200	0.6500	13.248	234.775	0.009902844272609389
setTask2371	6	200	0.5650	4.868.952	169.056	0.009966924692797356
setTask2372	6	200	0.5600	12.515	110.079	0.009868270231442992

setTask2373	6	200	0.5600	16.252	530.498	0.0093973455978141
setTask2374	6	200	0.5500	5.000.367	175.981	0.07198553247778897
setTask2375	6	200	0.5500	816.574	164.292	0.009975273663125873
setTask2376	6	200	0.5850	466.753	719.692	0.009849684045314494
setTask2377	6	200	0.5400	110.221	140.205	0.009772990684066705
setTask2378	6	200	0.5450	14.474	135.865	0.009756974674565565
setTask2379	6	200	0.5500	1.190.944	290.277	0.009998872398493584
setTask238	2	200	0.4250	0.0646	142.465	0.003213998750084595
setTask2380	6	200	0.5650	0.5295	130.293	0.009874502489749151
setTask2381	6	200	0.5500	272.188	163.242	0.00981084356463186
setTask2382	6	200	0.6050	3.478.606	535.584	0.00995559205468704
setTask2383	6	200	0.5950	111.012	240.824	0.00997947979751773
setTask2384	6	200	0.6250	10.632	604.843	0.009920217291534144
setTask2385	6	200	0.6200	0.0222	266.465	0.009485627501693608
setTask2386	6	200	0.5600	5.000.301	12.385	0.047605137460838706
setTask2387	6	200	0.5800	5.000.282	165.218	0.07333041169259799
setTask2388	6	200	0.5950	27.427	190.379	0.008415011858670116
setTask2389	6	200	0.6050	5.000.271	192.904	0.09202974404812517
setTask239	2	165	0.4182	0.1121	143.532	0.0
setTask2390	6	200	0.5650	84.405	202.071	0.007716798188915287
setTask2391	6	200	0.6350	1.891.029	164.501	0.009977851471978117
setTask2392	6	200	0.6250	0.0606	242.616	0.005343123675524826
setTask2393	6	200	0.5950	506.327	145.407	0.009933440288789936
setTask2394	6	200	0.5750	105.736	235.178	0.009958387838733698
setTask2395	6	200	0.5700	3.112.114	192.177	0.00994441161426869
setTask2396	6	200	0.5950	12.810	300.367	0.009969889662556667
setTask2397	6	200	0.6200	14.099	239.502	0.009401876004367734
setTask2398	6	200	0.5650	5.000.717	132.796	0.07148207448359013
setTask2399	6	200	0.5500	2.642.466	155.507	0.009902598446673228
setTask24	2	200	0.2350	0.0312	213.615	0.0020618556701031

setTask240	2	69	0.4058	0.0312	552.871	0.0
setTask2400	6	200	0.7000	878.997	117.985	0.009789640602786656
setTask2401	6	200	0.6300	29.457	157.625	0.009614131971359657
setTask2402	6	200	0.7050	0.0908	114.963	0.007639771974340806
setTask2403	6	200	0.6800	1.296.039	233.359	0.008811688675537306
setTask2404	6	200	0.7050	1.325.402	190.455	0.009942155211465662
setTask2405	6	200	0.7050	0.6066	14.215	0.009953212570885153
setTask2406	6	200	0.6500	3.263.751	30.846	0.009978155940914373
setTask2407	6	200	0.6950	0.2734	140.091	0.009429499939635157
setTask2408	6	200	0.6950	0.6624	121.192	0.009871580714503198
setTask2409	6	200	0.7650	1.304.849	116.942	0.009886812197103651
setTask241	2	104	0.4327	0.0469	126.183	0.0
setTask2410	6	200	0.6700	281.017	144.727	0.009580307864185456
setTask2411	6	200	0.6800	30.102	133.798	0.00862736662695517
setTask2412	6	200	0.6550	810.623	126.575	0.00997729158607159
setTask2413	6	200	0.6700	5.000.306	168.766	0.06557123932089623
setTask2414	6	200	0.7250	0.2419	207.792	0.00896019368175415
setTask2415	6	200	0.6350	271.822	458.926	0.009819735725362832
setTask2416	6	200	0.6900	5.000.250	107.831	0.04896772782351099
setTask2417	6	200	0.7000	21.119	459.641	0.008847552145400766
setTask2418	6	200	0.6950	25.672	274.418	0.009946672749876144
setTask2419	6	200	0.6750	79.489	202.769	0.009883268101299478
setTask242	2	120	0.4083	0.1277	127.606	0.0
setTask2420	6	200	0.6850	278.323	26.291	0.009870439114296579
setTask2421	6	126	0.6190	0.5012	245.476	0.00999070655586359
setTask2422	6	200	0.7000	45.386	153.292	0.009848526774252042
setTask2423	6	200	0.7650	40.602	196.442	0.009931263021558123
setTask2424	6	200	0.6400	14.203	269.759	0.009284395964181758
setTask2425	6	200	0.6350	1.497.847	349.365	0.009925668874929794
setTask2426	6	200	0.6750	227.259	147.935	0.0098776444224762

setTask2427	6	200	0.7150	0.5008	226.447	0.009209986494513333
setTask2428	6	200	0.6600	740.698	412.927	0.009413723451651975
setTask2429	6	200	0.6500	3.303.729	131.715	0.009980359770022628
setTask243	2	170	0.4176	0.0858	139.571	0.004781420790213225
setTask2430	6	200	0.6850	2.278.736	116.436	0.009908931848138763
setTask2431	6	200	0.6650	2.530.674	205.181	0.009994702685269457
setTask2432	6	200	0.7300	42.807	117.527	0.009984066708812831
setTask2433	6	200	0.6500	642.773	123.203	0.00978689451433758
setTask2434	6	200	0.7250	24.319	146.348	0.009958916428673045
setTask2435	6	200	0.6450	71.300	289.353	0.009973989618487097
setTask2436	6	200	0.6950	113.352	120.621	0.009341240750249986
setTask2437	6	200	0.6700	1.768.983	305.351	0.00995945484433366
setTask2438	6	200	0.6550	0.4720	190.515	0.00971984843285236
setTask2439	6	200	0.6650	0.2786	521.292	0.009794853639245676
setTask244	2	200	0.5450	0.0050	196.485	0.009070121951219463
setTask2440	6	200	0.6450	5.000.318	380.321	0.03682390576175743
setTask2441	6	200	0.6750	5.000.301	157.147	0.0188402783308879
setTask2442	6	200	0.8150	0.0203	86.852	0.008270241386478137
setTask2443	6	200	0.7050	372.862	10.688	0.009853054806945285
setTask2444	6	200	0.7150	101.657	664.272	0.009982034130696914
setTask2445	6	200	0.6650	0.5318	136.964	0.009488216444566789
setTask2446	6	200	0.6250	5.000.105	171.921	0.02320574193747069
setTask2447	6	200	0.6950	46.133	156.152	0.009871240778091175
setTask2448	6	200	0.6300	2.104.258	25.681	0.009812425680215862
setTask2449	6	200	0.6800	38.791	263.999	0.007259908535058723
setTask245	2	84	0.4167	0.0756	236.662	0.0
setTask2450	6	200	0.6600	248.711	104.527	0.009916567989971587
setTask2451	6	200	0.7150	0.9408	290.664	0.009797329561775809
setTask2452	6	200	0.6450	16.099	232.824	0.00980590732146493
setTask2453	6	200	0.8400	0.0283	312.011	0.009734478302727154

setTask2454	6	200	0.7550	24.424	820.849	0.009369802894630911
setTask2455	6	200	0.6600	5.000.303	258.676	0.048192637114418034
setTask2456	6	200	0.6600	5.000.555	469.997	0.034904776538166364
setTask2457	6	200	0.7150	296.578	171.037	0.00931490371122335
setTask2458	6	200	0.6850	5.000.212	214.891	0.014870832352432205
setTask2459	6	200	0.6650	5.000.240	548.125	0.045094366233620495
setTask246	2	160	0.4188	0.1002	248.757	0.0
setTask2460	6	200	0.6650	3.423.259	129.742	0.009982079065555602
setTask2461	6	200	0.6650	5.000.110	181.041	0.015973460746528143
setTask2462	6	200	0.6900	25.023	25.371	0.009948834188927197
setTask2463	6	200	0.6850	5.000.255	241.281	0.01845890205162609
setTask2464	6	200	0.7250	425.680	734.614	0.009995827175113143
setTask2465	6	200	0.7100	1.221.766	560.322	0.009700075524186195
setTask2466	6	200	0.6450	2.491.734	752.875	0.009988437020095985
setTask2467	6	200	0.7700	235.401	231.542	0.009927734957757227
setTask2468	6	200	0.7350	638.116	755.157	0.009964094614868243
setTask2469	6	200	0.6600	5.000.244	379.344	0.019441554605299435
setTask247	2	200	0.4050	0.0312	465.634	0.0
setTask2470	6	200	0.6300	5.000.291	254.935	0.012550906857856913
setTask2471	6	200	0.6650	5.000.295	155.095	0.0377828521242168
setTask2472	6	200	0.6900	0.1210	284.414	0.003214546334655469
setTask2473	6	200	0.8150	21.868	180.212	0.008748652824479489
setTask2474	6	200	0.6650	203.720	171.134	0.009878579040285855
setTask2475	6	200	0.6900	113.485	223.323	0.009973920755818521
setTask2476	6	200	0.6750	926.203	354.065	0.009686393276850194
setTask2477	6	200	0.7700	0.1394	463.395	0.009337904429988353
setTask2478	6	200	0.6800	32.341	128.679	0.009941962761025243
setTask2479	6	200	0.6750	239.940	332.499	0.009908789387305076
setTask248	2	200	0.4250	0.0416	428.717	0.0
setTask2480	6	200	0.6800	3.357.199	184.194	0.009993034730517488

setTask2481	6	200	0.7350	554.649	239.242	0.00994003113755494
setTask2482	6	200	0.6950	37.044	473.943	0.009980827727590607
setTask2483	6	200	0.6500	958.630	280.439	0.009986115858906613
setTask2484	6	200	0.6450	5.000.304	888.858	0.011042785792606227
setTask2485	6	200	0.6500	1.365.616	461.613	0.009815646234163684
setTask2486	6	200	0.7000	5.000.292	340.922	0.08127516183499416
setTask2487	6	200	0.6700	73.981	129.353	0.009688624650495099
setTask2488	6	200	0.7900	440.807	103.346	0.009911828747478032
setTask2489	6	200	0.6750	19.079	312.968	0.009854662996449036
setTask249	2	90	0.4111	0.0847	356.761	0.0
setTask2490	6	200	0.6900	118.313	451.063	0.008301183778737224
setTask2491	6	200	0.7800	0.5146	319.519	0.009442034994499882
setTask2492	6	200	0.6400	15.002	710.891	0.009994733536784182
setTask2493	6	200	0.6500	5.000.199	254.717	0.023249465816601103
setTask2494	6	200	0.7500	153.225	838.413	0.00820747790759889
setTask2495	6	200	0.6550	5.001.691	328.677	0.07527748691752824
setTask2496	6	200	0.6350	5.000.295	253.227	0.03083085201147983
setTask2497	6	200	0.7600	739.466	311.605	0.009736249093087542
setTask2498	6	200	0.6850	829.435	325.231	0.00998586081394254
setTask2499	6	200	0.6550	0.0696	227.326	0.005162736243039218
setTask25	2	168	0.2083	0.0623	507.723	0.0
setTask250	2	160	0.4625	0.0156	187.312	0.007598784194528874
setTask251	2	136	0.4338	0.0670	138.975	0.0
setTask252	2	200	0.4300	0.1119	426.095	0.0030090270812438568
setTask253	2	200	0.5350	0.0000	760.325	0.0065173373829410675
setTask254	2	150	0.4733	0.0378	606.866	0.0
setTask255	2	117	0.4188	0.0313	318.483	0.0
setTask256	2	200	0.5400	0.0049	254.812	0.007355041416738055
setTask257	2	168	0.4107	0.0698	530.186	0.0
setTask258	2	192	0.4219	0.0139	440.645	0.0

setTask259	2	200	0.4200	0.0156	550.539	0.00662004662004655
setTask26	2	200	0.2200	0.0690	428.881	0.0
setTask260	2	144	0.4167	0.0847	257.577	0.005376344086021324
setTask261	2	144	0.4028	0.0468	34.995	0.0
setTask262	2	168	0.4405	0.0760	915.322	0.0
setTask263	2	136	0.4191	0.0868	294.185	0.0
setTask264	2	200	0.4100	0.0319	378.483	0.006700167504187427
setTask265	2	200	0.4300	0.0379	965.064	0.0005145797598671371
setTask266	2	140	0.4143	0.0957	133.257	0.007211538546301031
setTask267	2	165	0.4242	0.0868	232.393	0.0
setTask268	2	140	0.4214	0.0479	285.439	0.0
setTask269	2	126	0.4206	0.0648	242.501	0.0
setTask27	2	200	0.2200	0.0579	238.498	0.0
setTask270	2	105	0.4190	0.0783	200.688	0.0
setTask271	2	200	0.4150	0.0747	377.758	0.0
setTask272	2	117	0.4103	0.0312	863.845	0.009546539379475286
setTask273	2	144	0.4028	0.0781	172.704	0.0
setTask274	2	132	0.4091	0.0847	116.256	0.0
setTask275	2	200	0.4150	0.0469	247.909	0.002487562189054453
setTask276	2	105	0.4095	0.0469	15.45	0.0
setTask277	2	150	0.4133	0.0690	379.649	0.003891050617509177
setTask278	2	200	0.4300	0.0156	404.551	0.006765899864682018
setTask279	2	88	0.4318	0.0378	29.677	0.0
setTask28	2	200	0.2400	0.0156	100.909	0.0
setTask280	2	190	0.4158	0.1003	477.314	0.0
setTask281	2	200	0.4450	0.0157	424.572	0.0
setTask282	2	170	0.4176	0.2719	124.051	0.0005341880344426643
setTask283	2	182	0.4066	0.1995	502.892	0.0
setTask284	2	176	0.4261	0.1157	840.304	0.005834305717619427
setTask285	2	200	0.5400	0.0059	422.221	0.006356455196247862

setTask286	2	114	0.4298	0.0369	469.974	0.0
setTask287	2	50	0.4200	0.0349	999.979	0.0
setTask288	2	200	0.5300	0.0080	373.037	0.007860195360195315
setTask289	2	133	0.4060	0.0602	405.682	0.0
setTask29	2	200	0.2150	0.0625	376.861	0.008372093023255868
setTask290	2	196	0.4031	0.1476	159.705	0.0
setTask291	2	126	0.4206	0.0469	200.792	0.0
setTask292	2	161	0.4037	0.0846	192.318	0.0
setTask293	2	200	0.5400	0.0058	195.262	0.008725855642155136
setTask294	2	120	0.4083	0.0808	45.566	0.0
setTask295	2	190	0.4263	0.0110	478.309	0.0
setTask296	2	57	0.4561	0.0120	707.913	0.0
setTask297	2	176	0.4148	0.1002	744.237	0.005780346820807546
setTask298	2	135	0.4370	0.0377	202.378	0.0
setTask299	2	140	0.4071	0.2228	955.812	0.0
setTask3	2	200	0.2200	0.0818	273.573	0.0
setTask30	2	168	0.2202	0.0313	177.584	0.00848563968668414
setTask300	2	110	0.5273	0.0922	113.101	0.0
setTask301	2	182	0.5220	0.1472	605.094	0.008373205741626765
setTask302	2	140	0.5071	0.1315	506.334	0.0
setTask303	2	126	0.5397	0.0312	487.121	0.005865102639296272
setTask304	2	110	0.5091	0.0156	479.824	0.0
setTask305	2	120	0.5250	0.0928	447.078	0.0
setTask306	2	198	0.5202	0.0947	100.574	0.006085192697768849
setTask307	2	200	0.5450	0.0100	554.405	0.00567721005677208
setTask308	2	200	0.5300	0.0534	529.954	0.0017091769655479077
setTask309	2	200	0.5200	0.0469	335.423	0.004808893330002451
setTask31	2	200	0.2400	0.0468	445.912	0.0
setTask310	2	52	0.5577	0.0156	130.821	0.0
setTask311	2	84	0.5238	0.0847	406.482	0.0

setTask312	2	176	0.5057	0.1822	431.427	0.0
setTask313	2	153	0.5229	0.0781	166.295	0.0
setTask314	2	126	0.5476	0.0149	463.216	0.0
setTask315	2	72	0.5417	0.0156	496.123	0.0
setTask316	2	176	0.5170	0.1002	20.861	0.0
setTask317	2	90	0.5111	0.0534	136.005	0.0
setTask318	2	62	0.6290	0.0156	205.423	0.0
setTask319	2	165	0.5152	0.2006	424.603	0.0
setTask32	2	155	0.2323	0.0000	113.912	0.0
setTask320	2	140	0.5286	0.0915	419.007	0.007056451612903316
setTask321	2	200	0.5450	0.0000	100.356	0.0033204798628964096
setTask322	2	176	0.5227	0.1159	295.487	0.007518796992482153
setTask323	2	144	0.5069	0.1158	879.607	0.0
setTask324	2	200	0.5250	0.0175	749.242	0.0084942084942083
setTask325	2	120	0.5250	0.1117	148.229	0.0
setTask326	2	143	0.5315	0.0401	499.025	0.0
setTask327	2	160	0.5062	0.1301	191.701	0.0
setTask328	2	120	0.5167	0.0937	445.217	0.0
setTask329	2	90	0.5333	0.0179	915.585	0.0
setTask33	2	200	0.2050	0.1416	153.645	0.0
setTask330	2	132	0.5227	0.0783	627.807	0.008720930232558094
setTask331	2	200	0.5250	0.0040	987.568	0.007251478456772778
setTask332	2	126	0.6429	0.0209	46.291	0.007780320366132723
setTask333	2	60	0.5667	0.0149	820.843	0.0
setTask334	2	130	0.5077	0.0738	526.259	0.0
setTask335	2	112	0.5179	0.0718	936.671	0.006033182503767583
setTask336	2	126	0.5159	0.0688	384.046	0.0
setTask337	2	60	0.5167	0.0120	264.176	0.0
setTask338	2	148	0.5405	0.0209	139.084	0.0
setTask339	2	112	0.5357	0.0888	241.486	0.005917159763313778

setTask34	2	200	0.2450	0.0339	424.529	0.0040650406504063995
setTask340	2	132	0.5227	0.0945	637.968	0.0
setTask341	2	200	0.5300	0.0070	132.093	0.008699778551091409
setTask342	2	70	0.5286	0.1307	100.423	0.0
setTask343	2	65	0.5077	0.0289	217.771	0.0
setTask344	2	180	0.5222	0.1604	473.813	0.0
setTask345	2	120	0.5333	0.0538	460.338	0.007812500000000134
setTask346	2	160	0.5188	0.1387	595.338	0.0
setTask347	2	120	0.5333	0.0678	118.393	0.0
setTask348	2	105	0.5619	0.0329	100.592	0.0
setTask349	2	84	0.5238	0.1002	605.614	0.0
setTask35	2	200	0.2300	0.0918	302.992	0.0073151920962522725
setTask350	2	75	0.5733	0.0209	917.012	0.0
setTask351	2	200	0.5400	0.0030	375.029	0.009797822706065228
setTask352	2	132	0.5455	0.0675	100.758	0.0
setTask353	2	130	0.5615	0.0060	514.766	0.005801585766776121
setTask354	2	66	0.5152	0.0200	40.555	0.0
setTask355	2	96	0.5312	0.0472	193.379	0.0
setTask356	2	132	0.5152	0.1087	747.919	0.0
setTask357	2	105	0.5238	0.0159	193.942	0.0
setTask358	2	72	0.5417	0.0568	520.912	0.0
setTask359	2	110	0.5364	0.0997	262.782	0.0
setTask36	2	99	0.2020	0.0199	151.984	0.0
setTask360	2	90	0.5333	0.1098	634.542	0.0
setTask361	2	200	0.5250	0.0150	192.025	0.008884357704630617
setTask362	2	60	0.5167	0.0229	516.461	0.0
setTask363	2	108	0.5093	0.0910	64.706	0.0
setTask364	2	148	0.5338	0.0158	130.909	0.007432220244950895
setTask365	2	120	0.5083	0.1688	155.691	0.0
setTask366	2	126	0.5238	0.0838	439.275	0.0076263107721644815

setTask367	2	84	0.5238	0.1181	454.885	0.0
setTask368	2	120	0.5167	0.1096	444.763	0.0
setTask369	2	54	0.6111	0.0129	237.345	0.0
setTask37	2	200	0.2200	0.0502	69.397	0.0
setTask370	2	189	0.5079	0.1897	897.419	0.0
setTask371	2	84	0.5357	0.0320	100.278	0.0
setTask372	2	84	0.5238	0.0688	176.393	0.0
setTask373	2	198	0.5404	0.0359	888.565	0.0
setTask374	2	112	0.5536	0.0170	534.131	0.0
setTask375	2	154	0.5130	0.0511	841.458	0.005666869054847176
setTask376	2	120	0.5250	0.1855	293.892	0.0
setTask377	2	70	0.5286	0.0248	800.719	0.0
setTask378	2	190	0.5158	0.2002	780.187	0.0
setTask379	2	60	0.5167	0.0750	210.433	0.0
setTask38	2	200	0.2150	0.0284	150.654	0.0
setTask380	2	52	0.5192	0.0200	337.469	0.0
setTask381	2	66	0.5303	0.0447	348.496	0.0
setTask382	2	108	0.5463	0.0449	167.779	0.0
setTask383	2	80	0.5125	0.0951	220.325	0.0
setTask384	2	65	0.5077	0.0205	347.811	0.0
setTask385	2	200	0.5300	0.0051	175.136	0.008172008886067896
setTask386	2	56	0.5357	0.0651	278.992	0.0
setTask387	2	166	0.6084	0.0353	662.405	0.00916195095661556
setTask388	2	176	0.5114	0.2099	732.912	0.0043478260869551175
setTask389	2	200	0.5300	0.0172	764.741	0.008299214341041928
setTask39	2	132	0.2121	0.0383	129.041	0.0
setTask390	2	150	0.5067	0.1402	127.727	0.008528784648187602
setTask391	2	150	0.5067	0.2400	295.961	0.0
setTask392	2	70	0.5143	0.0700	140.187	0.0
setTask393	2	140	0.5071	0.0854	576.786	0.0

setTask394	2	144	0.5208	0.1438	748.421	0.0055865921787717964
setTask395	2	84	0.5119	0.0749	187.061	0.0
setTask396	2	120	0.5250	0.0397	239.621	0.0
setTask397	2	130	0.5308	0.3176	112.789	0.0
setTask398	2	126	0.5079	0.0923	100.843	0.0
setTask399	2	140	0.5143	0.1339	243.032	0.0
setTask4	2	200	0.2250	0.1396	653.369	0.0
setTask40	2	198	0.2020	0.1354	103.726	0.0
setTask400	2	105	0.6190	0.0051	112.764	0.0
setTask401	2	126	0.6349	0.0112	14.022	0.0
setTask402	2	84	0.6429	0.0451	102.202	0.0
setTask403	2	78	0.6795	0.0201	137.859	0.007269789983844882
setTask404	2	76	0.6316	0.0300	15.073	0.0
setTask405	2	96	0.6146	0.1049	14.9	0.0
setTask406	2	105	0.6286	0.0302	506.303	0.0
setTask407	2	153	0.6209	0.0399	156.539	0.0
setTask408	2	90	0.6222	0.0698	101.005	0.0
setTask409	2	90	0.6333	0.0930	968.527	0.0
setTask41	2	200	0.2350	0.0618	909.782	0.0
setTask410	2	90	0.6222	0.0846	161.236	0.0
setTask411	2	54	0.6111	0.0100	141.895	0.0
setTask412	2	94	0.6489	0.0203	264.367	0.0
setTask413	2	104	0.6154	0.0399	757.026	0.0
setTask414	2	170	0.6059	0.0850	75.458	0.00979325353642752
setTask415	2	110	0.6273	0.0248	754.761	0.0
setTask416	2	114	0.6579	0.0301	598.223	0.0
setTask417	2	102	0.7059	0.0000	356.839	0.005717552887364187
setTask418	2	198	0.6212	0.2084	846.285	0.00900900900900622
setTask419	2	132	0.6061	0.1030	198.258	0.003952569169960881
setTask42	2	200	0.2450	0.0599	172.122	0.0

setTask420	2	80	0.6250	0.1441	231.186	0.0
setTask421	2	117	0.6068	0.1555	551.202	0.0
setTask422	2	200	0.6600	0.0110	199.151	0.007361268403170911
setTask423	2	84	0.6429	0.0040	311.592	0.0
setTask424	2	140	0.6071	0.2453	732.574	0.0
setTask425	2	200	0.6450	0.0100	277.329	0.0
setTask426	2	60	0.6167	0.0514	141.298	0.0
setTask427	2	112	0.6071	0.0405	785.744	0.0
setTask428	2	156	0.6282	0.0850	889.021	0.0
setTask429	2	63	0.6190	0.0201	13.85	0.0
setTask43	2	126	0.2063	0.0595	113.258	0.0
setTask430	2	60	0.6333	0.1198	102.32	0.0
setTask431	2	75	0.6133	0.0504	339.017	0.0
setTask432	2	140	0.6071	0.1198	615.486	0.006535947712418233
setTask433	2	165	0.6061	0.1451	292.112	0.00707785642062658
setTask434	2	90	0.6222	0.1102	268.799	0.0
setTask435	2	144	0.7083	0.0070	54.688	0.008106116433308832
setTask436	2	143	0.6224	0.0928	276.204	0.00968054217246861
setTask437	2	96	0.6250	0.0229	286.019	0.0
setTask438	2	70	0.6286	0.0738	481.719	0.0
setTask439	2	190	0.6105	0.2113	101.361	0.0
setTask44	2	189	0.2063	0.0846	728.764	0.0
setTask440	2	84	0.6190	0.1003	754.103	0.0
setTask441	2	136	0.6103	0.1157	573.956	0.005000000008407194
setTask442	2	180	0.6167	0.2064	241.147	0.0
setTask443	2	126	0.6190	0.2274	512.438	0.0
setTask444	2	60	0.6167	0.0390	505.265	0.0
setTask445	2	78	0.7051	0.0259	414.478	0.00879566982408668
setTask446	2	84	0.6310	0.1174	304.551	0.0
setTask447	2	156	0.6154	0.0131	826.531	0.00781249999999972

setTask448	2	126	0.6190	0.1237	32.757	0.0
setTask449	2	126	0.6190	0.0932	357.294	0.00537634408602122
setTask45	2	200	0.2450	0.0624	174.745	0.0
setTask450	2	75	0.6933	0.0468	123.179	0.0
setTask451	2	133	0.6165	0.0562	126.989	0.0
setTask452	2	72	0.6111	0.0390	340.853	0.0
setTask453	2	90	0.6444	0.1494	237.306	0.0
setTask454	2	200	0.6300	0.0000	100.898	0.005439709882139596
setTask455	2	119	0.6387	0.1378	595.682	0.006281407039279986
setTask456	2	56	0.6429	0.0312	506.016	0.0
setTask457	2	105	0.6190	0.1002	956.646	0.004504504504505528
setTask458	2	200	0.6050	0.0000	380.117	0.0032974150621206916
setTask459	2	102	0.7353	0.0156	55.898	0.0
setTask46	2	200	0.2150	0.0502	30.891	0.004418985270049234
setTask460	2	90	0.6333	0.0130	100.419	0.0
setTask461	2	143	0.6224	0.0160	121.622	0.0
setTask462	2	165	0.6242	0.2338	117.299	0.009803921568627303
setTask463	2	114	0.6930	0.0000	434.247	0.00631911532385447
setTask464	2	132	0.6212	0.1159	760.612	0.0
setTask465	2	92	0.6413	0.0157	553.733	0.0
setTask466	2	84	0.6548	0.0000	102.003	0.0
setTask467	2	60	0.7000	0.0156	160.565	0.0
setTask468	2	140	0.6286	0.2226	192.394	0.0
setTask469	2	84	0.6905	0.0156	18.304	0.0
setTask47	2	198	0.2020	0.1003	166.447	0.0
setTask470	2	200	0.6350	0.0000	456.597	0.008430785966820835
setTask471	2	66	0.6364	0.0000	153.778	0.0
setTask472	2	100	0.6100	0.0378	425.591	0.0
setTask473	2	60	0.6167	0.0468	306.014	0.0
setTask474	2	66	0.6061	0.0156	125.372	0.0

setTask475	2	188	0.6702	0.0312	231.071	0.007501875468867142
setTask476	2	185	0.6486	0.0000	739.662	0.005506797453106158
setTask477	2	66	0.6061	0.0754	120.742	0.0
setTask478	2	150	0.6200	0.1127	265.808	0.007999999999999924
setTask479	2	84	0.6190	0.0140	202.796	0.0
setTask48	2	200	0.2200	0.0349	222.328	0.0
setTask480	2	90	0.6333	0.0931	269.268	0.008333333333333394
setTask481	2	180	0.6556	0.0468	257.869	0.0
setTask482	2	120	0.6500	0.0312	197.408	0.0
setTask483	2	182	0.6264	0.1693	202.844	0.008936970837253786
setTask484	2	108	0.6481	0.0221	372.404	0.0
setTask485	2	168	0.6190	0.2097	258.084	0.0
setTask486	2	132	0.6136	0.1941	134.321	0.008298755186722117
setTask487	2	90	0.6111	0.0469	202.465	0.0
setTask488	2	102	0.6373	0.0312	107.765	0.0
setTask489	2	154	0.6169	0.0429	215.359	0.009782608695652216
setTask49	2	200	0.2450	0.0359	264.689	0.0
setTask490	2	200	0.6450	0.0080	138.191	0.006204756980351603
setTask491	2	91	0.6044	0.0209	104.565	0.0004330879168451014
setTask492	2	52	0.6154	0.0199	921.517	0.0013917884481460855
setTask493	2	90	0.6111	0.1119	110.162	0.0
setTask494	2	80	0.6125	0.1528	530.704	0.0
setTask495	2	180	0.6444	0.2383	215.908	0.00512163892445377
setTask496	2	63	0.6190	0.1150	136.619	0.0
setTask497	2	195	0.6205	0.0312	112.072	0.0
setTask498	2	120	0.6417	0.0770	198.547	0.0
setTask499	2	60	0.6333	0.0378	287.465	0.0
setTask5	2	175	0.2114	0.0221	463.922	0.0026102845210128124
setTask50	2	200	0.2150	0.0534	262.209	0.0
setTask500	3	200	0.2250	0.0233	586.297	0.00316547184356483

setTask501	3	200	0.2500	0.0240	889.365	0.007533237515988283
setTask502	3	200	0.2050	0.0960	145.442	0.003255307351347501
setTask503	3	200	0.2450	0.1002	949.101	0.009140899235138366
setTask504	3	200	0.2350	0.4884	928.571	0.009806980758287223
setTask505	3	105	0.2190	0.0120	357.051	0.0
setTask506	3	200	0.2350	0.1476	170.619	0.009039639422660256
setTask507	3	200	0.2400	0.3251	137.965	0.008390244386651119
setTask508	3	200	0.2100	0.0917	323.189	0.008243109210778705
setTask509	3	200	0.2150	0.0917	105.116	0.002981366459627367
setTask51	2	200	0.2300	0.0504	106.166	0.0
setTask510	3	200	0.2250	0.1693	285.204	0.009834295423558011
setTask511	3	200	0.2100	0.0846	454.654	0.0
setTask512	3	168	0.2024	0.0828	381.468	0.009191176470588657
setTask513	3	200	0.2550	0.0532	209.605	0.006364208721772648
setTask514	3	200	0.2150	0.1003	175.773	0.0
setTask515	3	200	0.2450	0.0534	298.815	0.0037924367589194487
setTask516	3	200	0.2400	0.1229	488.815	0.0
setTask517	3	200	0.2300	0.4934	402.787	0.0002621612385245138
setTask518	3	200	0.2550	0.0690	770.147	0.004105962650146785
setTask519	3	200	0.2150	0.1380	15.114	0.004520265306087989
setTask52	2	69	0.2029	0.0354	143.079	0.0
setTask520	3	200	0.2150	0.1380	14.142	0.0
setTask521	3	200	0.2100	0.2161	13.223	0.009929152688243216
setTask522	3	200	0.2600	0.0907	126.022	0.004176154844095536
setTask523	3	200	0.2450	0.1017	69.664	0.0
setTask524	3	200	0.2500	0.0699	601.469	0.009789410287557485
setTask525	3	200	0.2150	0.1748	308.743	0.0
setTask526	3	200	0.2500	0.2226	280.801	0.009974054914346773
setTask527	3	200	0.2450	0.1141	133.998	0.009560721896632748
setTask528	3	200	0.2450	0.1381	231.008	0.0

setTask529	3	200	0.2600	0.2317	103.269	0.0
setTask53	2	54	0.2037	0.0065	654.421	0.0
setTask530	3	200	0.2250	0.2046	360.794	0.0
setTask531	3	200	0.2150	0.1789	115.031	0.009967474382338448
setTask532	3	200	0.2300	0.2317	146.636	0.0
setTask533	3	200	0.2250	0.1183	871.674	0.009475960358087728
setTask534	3	200	0.2600	0.0625	107.392	0.005869171483047377
setTask535	3	200	0.2250	0.1159	408.994	0.008481181331344323
setTask536	3	180	0.2056	0.0312	275.815	0.0
setTask537	3	200	0.2750	0.1002	329.352	0.00695694960311923
setTask538	3	200	0.2050	0.2803	103.051	0.0
setTask539	3	200	0.2050	0.1708	510.463	0.007258379912437019
setTask54	2	99	0.2020	0.0312	294.006	0.0
setTask540	3	200	0.2200	0.0690	17.644	0.008008666397031731
setTask541	3	200	0.2300	0.2003	801.787	0.0
setTask542	3	148	0.2027	0.1565	160.134	0.005789336154750805
setTask543	3	200	0.2550	0.0821	352.111	0.004899313547403495
setTask544	3	200	0.2300	0.2228	192.286	0.009804579804483907
setTask545	3	200	0.2200	0.1277	652.514	0.005930762594386478
setTask546	3	200	0.2350	0.0222	384.088	0.002452551459121139
setTask547	3	200	0.2400	0.0469	163.209	0.004254035850875894
setTask548	3	200	0.2400	0.1315	18.373	0.007095723259452113
setTask549	3	200	0.2750	0.0935	197.022	0.0
setTask55	2	84	0.2143	0.0080	685.691	0.0
setTask550	3	200	0.2850	0.0599	141.037	0.009654837010610536
setTask551	3	200	0.2100	0.2703	275.046	0.0
setTask552	3	168	0.2024	0.1247	23.977	0.0
setTask553	3	200	0.2550	0.0778	256.848	0.0091332416814158
setTask554	3	200	0.2250	0.0838	282.386	0.0
setTask555	3	200	0.2450	0.0429	183.369	0.004200368339992328

setTask556	3	200	0.2200	0.2726	175.822	0.009090291296640556
setTask557	3	200	0.2600	0.0199	168.074	0.004894829745105594
setTask558	3	200	0.2500	0.1413	124.377	0.007101555919176366
setTask559	3	200	0.2250	0.1020	338.397	0.007283000935497808
setTask56	2	200	0.2450	0.0488	174.611	0.0
setTask560	3	200	0.2550	0.0697	138.777	0.004245251414668291
setTask561	3	200	0.2750	0.0568	210.787	0.004243089804734382
setTask562	3	200	0.2400	0.0509	196.751	0.007560154110833826
setTask563	3	200	0.2700	0.0771	470.378	0.008047594862442577
setTask564	3	200	0.2200	0.1002	19.652	0.0
setTask565	3	200	0.2450	0.0690	177.922	0.008711402449542953
setTask566	3	200	0.2250	0.1862	203.883	0.00888560996816858
setTask567	3	200	0.2050	0.1078	158.662	0.0
setTask568	3	200	0.2600	0.1784	280.478	0.008811936448472741
setTask569	3	200	0.2250	0.1471	157.731	0.008127113436479469
setTask57	2	200	0.2350	0.0518	309.991	0.006267409470749567
setTask570	3	200	0.2200	0.1885	177.604	0.006833656616920657
setTask571	3	200	0.2400	0.2787	192.064	0.009551098376313242
setTask572	3	200	0.2900	0.0534	123.558	0.006486720242170214
setTask573	3	200	0.2600	0.3005	209.912	0.004926860920963494
setTask574	3	200	0.2200	0.1380	199.805	0.0
setTask575	3	200	0.2050	0.1315	228.488	0.00780426111006767
setTask576	3	200	0.2750	0.0738	128.569	0.007209210992926324
setTask577	3	200	0.2500	0.0738	16.534	0.009118912158256087
setTask578	3	200	0.2400	0.0170	151.403	0.004743037400768954
setTask579	3	200	0.2400	0.3007	274.471	0.005370753382058838
setTask58	2	200	0.2100	0.0312	24.323	0.0021413276231263363
setTask580	3	200	0.2450	0.1403	22.758	0.0
setTask581	3	200	0.2400	0.1548	697.762	0.008673613066741668
setTask582	3	200	0.2450	0.0469	228.258	0.0075057892792461355

setTask583	3	200	0.2700	0.0846	194.971	0.006626145874850691
setTask584	3	200	0.2500	0.0469	455.558	0.009713770565697534
setTask585	3	200	0.2500	0.3443	177.414	0.008056133056133109
setTask586	3	200	0.2400	0.1097	207.692	0.0
setTask587	3	200	0.2200	0.1400	129.783	0.0
setTask588	3	200	0.2300	0.0997	288.995	0.004078161251157017
setTask589	3	200	0.2150	0.2161	313.147	0.0059545026233207895
setTask59	2	63	0.2063	0.0156	317.626	0.0
setTask590	3	200	0.2400	0.4058	18.502	0.0
setTask591	3	200	0.2250	0.1146	212.595	0.009129982272299351
setTask592	3	190	0.2053	0.1003	441.261	0.0
setTask593	3	200	0.2300	0.1003	144.369	0.0
setTask594	3	200	0.2100	0.1848	180.894	0.008494511238893011
setTask595	3	200	0.2500	0.2528	209.299	0.0
setTask596	3	198	0.2121	0.0000	282.305	0.0
setTask597	3	200	0.2650	0.0690	141.644	0.005831471607287814
setTask598	3	200	0.2400	0.3485	18.103	0.0
setTask599	3	200	0.2300	0.2751	322.313	0.009878226777324438
setTask6	2	78	0.2051	0.0156	109.248	0.0
setTask60	2	200	0.2100	0.0846	216.326	0.0
setTask600	3	200	0.3550	0.1003	50.904	0.009223998954102022
setTask601	3	108	0.3056	0.0299	178.027	0.0031878860330743068
setTask602	3	72	0.3056	0.0156	157.397	0.008090614886729724
setTask603	3	200	0.3400	0.0312	216.254	0.008598699624305097
setTask604	3	168	0.3155	0.0313	16.149	0.0
setTask605	3	200	0.3050	0.1315	139.376	0.00997792870442964
setTask606	3	200	0.3400	13.158	148.207	0.009987488932486849
setTask607	3	120	0.3083	0.1002	151.604	0.0
setTask608	3	168	0.3095	0.1380	461.544	0.009834368530009902
setTask609	3	84	0.3095	0.0534	204.871	0.0010366275051830144

setTask61	2	200	0.2400	0.0157	217.416	0.009407665505226545
setTask610	3	200	0.3150	0.0479	166.199	0.0029214139643586588
setTask611	3	180	0.3056	0.1187	143.038	0.0
setTask612	3	200	0.3600	0.1608	231.679	0.006643239352504171
setTask613	3	200	0.3250	0.0534	180.414	0.009628256616208534
setTask614	3	168	0.3036	0.3120	227.127	0.009715731403070924
setTask615	3	200	0.3500	0.0204	449.618	0.0
setTask616	3	200	0.3050	0.1471	322.899	0.0
setTask617	3	200	0.3050	0.2540	310.398	0.0
setTask618	3	200	0.3100	0.3161	196.068	0.004349307257290386
setTask619	3	80	0.3125	0.0312	217.239	0.0
setTask62	2	200	0.2350	0.0312	576.955	0.004761217717500529
setTask620	3	144	0.3125	0.1416	192.926	0.00843214756258251
setTask621	3	200	0.3650	0.0845	569.981	0.0058542267870010795
setTask622	3	200	0.3650	0.0846	136.474	0.00550884314293977
setTask623	3	200	0.3350	0.1874	469.625	0.009650103501553058
setTask624	3	200	0.3150	0.1520	233.898	0.004774114466991523
setTask625	3	120	0.3167	0.0439	149.028	0.0
setTask626	3	200	0.3450	0.2867	26.695	0.00905661225727739
setTask627	3	90	0.3222	0.0156	126.758	0.0
setTask628	3	100	0.3200	0.0221	208.991	0.0
setTask629	3	200	0.3250	0.0846	129.228	0.0
setTask63	2	200	0.2100	0.0000	20.993	0.007007299270072967
setTask630	3	182	0.3132	0.1532	18.305	0.003811944091482786
setTask631	3	154	0.3182	0.1381	188.175	0.0
setTask632	3	156	0.3077	0.2786	231.068	0.0
setTask633	3	140	0.3143	0.2164	128.055	0.008985024958386035
setTask634	3	200	0.3500	0.2342	420.248	0.0
setTask635	3	200	0.3100	0.2318	21.439	0.0
setTask636	3	200	0.3100	0.1287	314.931	0.008821504481434962

setTask637	3	170	0.3059	0.2972	451.731	0.0
setTask638	3	110	0.3182	0.0833	270.949	0.0
setTask639	3	120	0.3250	0.0219	414.661	0.0
setTask64	2	54	0.2037	0.0129	204.871	0.0
setTask640	3	88	0.3182	0.0130	391.174	0.0
setTask641	3	200	0.3450	0.1895	467.992	0.0
setTask642	3	144	0.3194	0.1830	597.591	0.0
setTask643	3	200	0.3600	0.1159	242.871	0.008793427026572525
setTask644	3	52	0.3077	0.0378	358.792	0.0
setTask645	3	200	0.3050	0.1159	250.911	0.006000913377556733
setTask646	3	200	0.3500	0.2447	230.606	0.0019741827445949166
setTask647	3	200	0.3200	0.8016	382.188	0.008520501648057248
setTask648	3	200	0.3200	0.0532	575.045	0.007224203606238227
setTask649	3	126	0.3095	0.0208	324.996	0.0
setTask65	2	184	0.2120	0.1003	48.875	0.00792079207920804
setTask650	3	90	0.3222	0.0313	288.226	0.0
setTask651	3	200	0.3400	0.1003	292.196	0.009639496508341215
setTask652	3	200	0.3600	0.1486	289.802	0.0
setTask653	3	200	0.3150	0.1205	2.485	0.007809090291605878
setTask654	3	150	0.3267	0.0331	17.385	0.0077545696850682645
setTask655	3	56	0.3214	0.0000	443.255	0.0
setTask656	3	200	0.3350	0.0726	213.861	0.0
setTask657	3	200	0.3500	0.0820	295.765	0.005651815018582741
setTask658	3	200	0.3250	0.2094	257.778	0.006331766914254876
setTask659	3	200	0.3250	10.669	113.793	0.009916289782458579
setTask66	2	200	0.2100	0.0504	391.512	0.0
setTask660	3	200	0.3450	0.1315	496.849	0.009577213179832832
setTask661	3	200	0.3700	0.1316	221.537	0.009451367543406876
setTask662	3	200	0.3400	0.0781	243.145	0.009773123909249623
setTask663	3	200	0.3300	0.1002	441.948	0.007437999756464022

setTask664	3	200	0.3550	0.0690	232.443	0.009273570324571458
setTask665	3	200	0.3450	0.2344	465.745	0.009051194857565264
setTask666	3	168	0.3095	0.0977	760.513	0.004050925960790302
setTask667	3	200	0.3200	0.2681	87.931	0.009921565998525216
setTask668	3	200	0.3600	0.1276	261.476	0.006898092323496805
setTask669	3	124	0.3387	0.0189	406.996	0.0
setTask67	2	200	0.2250	0.0429	324.595	0.0
setTask670	3	200	0.3150	0.1119	430.896	0.0
setTask671	3	200	0.3400	0.0312	362.326	0.004350240651610464
setTask672	3	200	0.3200	0.1037	426.644	0.007827467294323766
setTask673	3	126	0.3095	0.0170	134.296	0.0
setTask674	3	120	0.3167	0.0798	127.487	0.0
setTask675	3	180	0.3056	0.1626	187.086	0.005052046211047047
setTask676	3	180	0.3278	0.0355	251.903	0.008361263460535336
setTask677	3	184	0.3043	0.3690	895.531	0.009456305347703751
setTask678	3	200	0.3500	0.2914	886.988	0.00778757601167534
setTask679	3	162	0.3025	0.2070	109.988	0.007447645728257685
setTask68	2	66	0.2121	0.0000	405.648	0.0
setTask680	3	120	0.3083	0.0806	25.947	0.00676450742240236
setTask681	3	96	0.3021	0.1063	314.205	0.0
setTask682	3	110	0.3364	0.0000	277.411	0.0
setTask683	3	200	0.3700	0.2161	454.067	0.004433221555524663
setTask684	3	200	0.3150	0.0830	507.751	0.009516050187388039
setTask685	3	180	0.3111	0.1580	491.727	0.0
setTask686	3	200	0.3050	0.0718	201.743	0.0
setTask687	3	200	0.3450	0.0847	258.381	0.009861940694660405
setTask688	3	200	0.3700	0.2318	545.605	0.004463574982811661
setTask689	3	135	0.3185	0.1368	30.702	0.00884035369677335
setTask69	2	150	0.2200	0.0156	288.495	0.0
setTask690	3	200	0.3550	0.1364	176.134	0.005925884247333662

setTask691	3	168	0.3036	0.2317	299.065	0.0
setTask692	3	200	0.3150	0.1945	244.917	0.0
setTask693	3	90	0.3111	0.0313	275.706	0.0
setTask694	3	200	0.3250	0.1461	201.855	0.0
setTask695	3	200	0.3450	0.1159	460.781	0.0
setTask696	3	200	0.3800	0.0690	355.514	0.005172279211564215
setTask697	3	200	0.3200	0.1296	172.594	0.005033594302585048
setTask698	3	105	0.3143	0.0335	805.132	0.0
setTask699	3	200	0.3350	0.0625	686.674	0.00939194028286364
setTask7	2	200	0.2050	0.0378	455.828	0.0
setTask70	2	174	0.2011	0.0378	219.786	0.0
setTask700	3	144	0.4236	0.0156	244.931	0.0
setTask701	3	200	0.4500	0.0209	346.754	0.0035247240857737014
setTask702	3	200	0.4450	0.0668	37.375	0.009076804474535478
setTask703	3	200	0.4450	0.1534	291.007	0.008222387404911035
setTask704	3	165	0.4182	0.4172	256.089	0.0
setTask705	3	180	0.4056	0.2274	459.969	0.0
setTask706	3	200	0.4900	0.0289	763.715	0.0018120045300130754
setTask707	3	60	0.4333	0.0149	122.516	0.0
setTask708	3	200	0.4350	0.0669	274.107	0.0
setTask709	3	200	0.4050	0.0690	217.386	0.0
setTask71	2	200	0.2100	0.0468	400.668	0.009933774834437182
setTask710	3	200	0.4850	0.0378	241.506	0.001514960232295398
setTask711	3	200	0.4550	0.1174	778.814	0.008842523057248676
setTask712	3	200	0.4300	0.2383	248.316	0.009853110671531318
setTask713	3	105	0.4667	0.0035	504.616	0.007834435286658748
setTask714	3	160	0.4125	0.4478	322.379	0.0
setTask715	3	105	0.4095	0.2852	251.503	0.0049443757725626935
setTask716	3	200	0.4850	0.0209	417.766	0.0085980916430737
setTask717	3	200	0.4550	0.0738	305.727	0.008596855369313657

setTask718	3	200	0.4300	0.3775	359.092	0.009844252717173898
setTask719	3	200	0.4200	0.1224	910.397	0.0051545385321293425
setTask72	2	200	0.2100	0.0324	261.136	0.0
setTask720	3	60	0.4167	0.0155	272.364	0.008196721311473011
setTask721	3	132	0.4167	0.3384	535.399	0.0
setTask722	3	200	0.4500	0.1315	917.231	0.006633201864467235
setTask723	3	200	0.4400	0.2558	29.803	0.0
setTask724	3	200	0.4900	0.3320	371.091	0.005920090249554527
setTask725	3	200	0.4700	0.0102	762.541	0.0
setTask726	3	140	0.4214	0.0000	260.013	0.0
setTask727	3	96	0.4688	0.0156	386.829	0.0
setTask728	3	200	0.5400	0.0262	256.672	0.003876590193322655
setTask729	3	54	0.4259	0.0377	147.351	0.0
setTask73	2	200	0.2350	0.0616	800.146	0.0
setTask730	3	156	0.4167	0.1315	131.567	0.008403613553827762
setTask731	3	200	0.4200	0.3577	525.767	0.008771929824561528
setTask732	3	200	0.4450	0.0628	404.082	0.00979973826550596
setTask733	3	162	0.4074	0.6297	40.668	0.0
setTask734	3	200	0.4800	0.1179	41.586	0.006532640067295989
setTask735	3	52	0.4038	0.1469	179.232	0.0
setTask736	3	200	0.4700	0.1002	498.413	0.007773302240124262
setTask737	3	200	0.4250	0.0533	983.917	0.005674911035961476
setTask738	3	114	0.4035	0.1476	182.445	0.0
setTask739	3	200	0.4750	0.0140	125.851	0.0019019442096358144
setTask74	2	200	0.2350	0.0389	530.759	0.0
setTask740	3	117	0.4359	0.0443	911.765	0.008836524300426047
setTask741	3	63	0.4286	0.0312	410.695	0.0
setTask742	3	200	0.4800	0.1537	386.037	0.007757456527900041
setTask743	3	200	0.4550	0.0846	120.429	0.00987689750626282
setTask744	3	200	0.4500	0.0530	281.627	0.008648569874564553

setTask745	3	140	0.4571	0.0156	115.337	0.006029908345393123
setTask746	3	80	0.4125	0.0312	101.098	0.0
setTask747	3	200	0.4700	0.0157	455.751	0.00815036451171776
setTask748	3	154	0.4156	0.4343	53.807	0.0
setTask749	3	60	0.4500	0.0100	102.647	0.0
setTask75	2	200	0.2100	0.0808	764.206	0.0
setTask750	3	138	0.4275	0.4467	584.829	0.0
setTask751	3	200	0.4150	0.1449	406.851	0.001983689662755339
setTask752	3	160	0.4062	0.2962	40.769	0.0
setTask753	3	114	0.4035	0.2244	103.054	0.0
setTask754	3	200	0.4600	0.0204	579.031	0.008538181021944048
setTask755	3	144	0.4028	0.3222	185.733	0.009509755697652
setTask756	3	200	0.4450	0.9171	100.96	0.009549039371485591
setTask757	3	200	0.5600	0.0101	154.452	0.0084617401227445
setTask758	3	60	0.4333	0.0202	9.948	0.0
setTask759	3	200	0.4450	0.2522	518.909	0.008048390439240057
setTask76	2	114	0.2018	0.0226	128.079	0.0
setTask760	3	84	0.4167	0.0170	483.462	0.0
setTask761	3	112	0.4107	0.5132	542.612	0.004065407895925562
setTask762	3	70	0.4143	0.0781	491.226	0.0
setTask763	3	180	0.4222	0.1736	201.366	0.00471910112357213
setTask764	3	200	0.5700	0.0050	910.712	0.0021107686580729354
setTask765	3	152	0.4145	0.4169	431.712	0.0
setTask766	3	200	0.4100	0.0728	80.012	0.0005985718642215919
setTask767	3	72	0.4167	0.1630	491.106	0.004092174685392767
setTask768	3	96	0.4167	0.0932	461.436	0.0
setTask769	3	99	0.4141	0.2161	974.522	0.0
setTask77	2	200	0.2250	0.0360	358.957	0.004629629629629346
setTask770	3	180	0.4111	0.5106	963.422	0.009672280382298133
setTask771	3	200	0.4700	0.0898	406.861	0.009645785694021528

setTask772	3	112	0.4375	0.0568	178.895	0.005159071367154058
setTask773	3	200	0.4400	0.0219	404.483	0.0014449475002387914
setTask774	3	200	0.4250	0.1785	271.004	0.0
setTask775	3	200	0.5550	0.0129	273.714	0.0033624818620934167
setTask776	3	156	0.4038	0.2474	70.131	0.006070366699702587
setTask777	3	200	0.4250	0.1486	160.343	0.004263113976575969
setTask778	3	200	0.4250	0.1530	474.302	0.006703355096054997
setTask779	3	112	0.4196	0.1002	717.896	0.002369659071109154
setTask78	2	78	0.2051	0.0156	223.593	0.0
setTask780	3	200	0.4650	0.1065	115.305	0.009405253732970608
setTask781	3	60	0.4333	0.0156	936.896	0.0
setTask782	3	200	0.4750	0.0312	100.813	0.0
setTask783	3	180	0.4111	0.1904	298.348	0.004965566634042875
setTask784	3	80	0.4125	0.3169	41.725	0.008520739247735096
setTask785	3	200	0.4550	0.0468	410.928	0.007635715691952894
setTask786	3	112	0.4464	0.0845	104.249	0.0
setTask787	3	90	0.4222	0.0469	121.242	0.0
setTask788	3	200	0.4300	0.2056	386.264	0.006764592191727934
setTask789	3	120	0.4083	0.0534	490.692	0.0
setTask79	2	136	0.2132	0.0222	732.833	0.0
setTask790	3	60	0.4167	0.0649	129.634	0.0
setTask791	3	168	0.4048	13.801	965.621	0.0
setTask792	3	200	0.4600	0.1351	413.491	0.003659094374142314
setTask793	3	200	0.4550	0.0548	182.188	0.009857557951709985
setTask794	3	200	0.4100	0.5487	55.663	0.009995557529988909
setTask795	3	175	0.4229	0.0065	50.667	0.0
setTask796	3	200	0.4650	0.2695	338.617	0.009970562404358941
setTask797	3	90	0.4111	0.3475	466.832	0.0
setTask798	3	200	0.4450	0.0805	357.466	0.009439305854253703
setTask799	3	200	0.4200	0.3227	588.132	0.007143747393272117

setTask8	2	200	0.2250	0.0339	354.988	0.001330671989354298
setTask80	2	200	0.2450	0.0239	175.627	0.003977900552485548
setTask800	3	200	0.6350	0.0109	6.152	0.0
setTask801	3	168	0.5060	0.4547	95.509	0.0
setTask802	3	180	0.5056	0.8569	513.864	0.009526283883302967
setTask803	3	90	0.5111	0.0638	712.519	0.004351265822783327
setTask804	3	132	0.5682	0.0189	117.873	0.009216589861751171
setTask805	3	78	0.5769	0.0119	718.454	0.0
setTask806	3	168	0.5060	0.1315	378.118	0.008035020709009072
setTask807	3	129	0.5659	0.2183	89.347	0.009815565473719118
setTask808	3	200	0.5450	0.0927	68.824	0.007661239024487778
setTask809	3	140	0.5286	0.2244	540.232	0.0
setTask81	2	200	0.2400	0.0369	829.664	0.003458213256474251
setTask810	3	200	0.5350	0.4950	342.784	0.00949367088605348
setTask811	3	180	0.5056	27.684	16.11	0.0
setTask812	3	90	0.5222	0.0797	518.124	0.0
setTask813	3	200	0.5700	0.1019	307.632	0.009261962932739693
setTask814	3	156	0.5769	0.0304	147.433	0.008156297420333782
setTask815	3	152	0.5132	0.1652	47.147	0.0
setTask816	3	180	0.5389	0.0866	630.902	0.0
setTask817	3	200	0.5450	0.0537	469.517	0.007009303909793416
setTask818	3	200	0.5900	0.0110	743.929	0.004861584611529422
setTask819	3	138	0.5072	10.510	151.843	0.008623286156904397
setTask82	2	200	0.2300	0.0378	108.645	0.009500542888161208
setTask820	3	144	0.5208	0.1315	145.678	0.0077777777777759358
setTask821	3	200	0.5550	0.0156	580.289	0.00859643297279088
setTask822	3	140	0.5071	0.1382	197.243	0.0
setTask823	3	84	0.5833	0.0258	469.024	0.009878575838649841
setTask824	3	72	0.5139	0.1358	869.525	0.0
setTask825	3	112	0.5179	0.0794	607.479	0.007777220270949104

setTask826	3	168	0.5298	0.1003	254.916	0.00964830376595072
setTask827	3	140	0.5643	0.0649	93.407	0.0
setTask828	3	200	0.5650	0.0781	424.061	0.006575471144246003
setTask829	3	110	0.5182	0.4795	779.857	0.0
setTask83	2	112	0.2054	0.0070	196.485	0.0
setTask830	3	200	0.5550	0.0359	50.818	0.004821065525659556
setTask831	3	75	0.5600	0.0199	641.543	0.005857332124677643
setTask832	3	126	0.5159	0.1696	339.405	0.0
setTask833	3	72	0.5139	0.0817	140.208	0.00824499411071363
setTask834	3	176	0.5227	0.2005	188.432	0.009404388714733343
setTask835	3	189	0.5132	0.7388	177.344	0.003661513425549331
setTask836	3	126	0.5952	0.0081	105.953	0.0062679835134923185
setTask837	3	90	0.5111	0.6410	415.691	0.0
setTask838	3	98	0.5204	0.1727	670.317	0.0
setTask839	3	200	0.5650	0.1077	870.589	0.00831704876680933
setTask84	2	123	0.2033	0.0409	916.384	0.0
setTask840	3	90	0.5333	0.4707	137.425	0.0
setTask841	3	105	0.5048	0.2992	284.938	0.0
setTask842	3	200	0.5300	0.4366	107.786	0.008262940286101037
setTask843	3	60	0.5167	0.0156	132.647	0.0
setTask844	3	132	0.5530	0.0469	218.418	0.0075075075075085014
setTask845	3	200	0.5450	0.0625	765.221	0.005554243964263606
setTask846	3	180	0.5278	0.4564	901.198	0.009434958634045656
setTask847	3	84	0.5357	0.1102	765.044	0.0
setTask848	3	80	0.5375	0.0713	785.043	0.0066277889414832385
setTask849	3	168	0.5179	0.5346	157.509	0.00909090909090906
setTask85	2	200	0.2250	0.0081	617.816	0.0026091081593926915
setTask850	3	140	0.5214	0.1243	616.056	0.0020876826722344803
setTask851	3	126	0.5873	0.0242	730.158	0.0
setTask852	3	200	0.5200	0.2932	117.575	0.009021966527196881

setTask853	3	200	0.5600	0.1246	319.491	0.009829616709935289
setTask854	3	140	0.5286	0.1526	296.939	0.004392019625601298
setTask855	3	200	0.5700	0.0229	163.107	0.0087911497274817
setTask856	3	200	0.5150	0.1875	101.118	0.006813344106867526
setTask857	3	176	0.5057	0.3289	804.235	0.0095986038394414
setTask858	3	120	0.5250	0.0481	766.245	0.0
setTask859	3	84	0.5833	0.0904	936.005	0.005214865667700919
setTask86	2	90	0.2111	0.0021	592.415	0.0
setTask860	3	192	0.5104	0.1533	370.134	0.0
setTask861	3	60	0.5167	0.1696	137.332	0.0
setTask862	3	200	0.5350	0.2170	696.266	0.007810412168582553
setTask863	3	60	0.5500	0.0468	321.141	0.0
setTask864	3	200	0.5850	0.0141	227.549	0.0
setTask865	3	78	0.5256	0.0373	567.317	0.0
setTask866	3	120	0.5083	0.4645	136.311	0.0
setTask867	3	120	0.5083	0.8402	555.395	0.0
setTask868	3	200	0.5650	0.0123	168.048	0.008437670114316726
setTask869	3	200	0.5600	0.1994	140.465	0.0010166563590959113
setTask87	2	200	0.2200	0.0439	105.623	0.0016492578339746744
setTask870	3	168	0.5119	0.4631	23.231	0.0
setTask871	3	200	0.5300	34.270	75.742	0.009528010861074226
setTask872	3	120	0.5250	0.0666	905.285	0.0065040650406471496
setTask873	3	198	0.5051	0.6107	563.729	0.009819790654967627
setTask874	3	120	0.5083	0.3507	758.963	0.009947256546815905
setTask875	3	200	0.5500	0.0846	150.089	0.009419542245734113
setTask876	3	156	0.5449	0.2847	509.498	0.004666949714382008
setTask877	3	126	0.5079	0.4452	157.767	0.008139534883721553
setTask878	3	132	0.5227	0.3019	414.352	0.0
setTask879	3	200	0.5200	16.267	19.572	0.007041810194669324
setTask88	2	90	0.2333	0.0070	130.965	0.0

setTask880	3	200	0.5300	0.3486	118.105	0.006673875882733608
setTask881	3	112	0.5357	0.1397	110.746	0.00937207125777377
setTask882	3	176	0.5227	0.5288	50.907	0.0
setTask883	3	140	0.5071	0.0959	997.237	0.0034856700232359663
setTask884	3	200	0.5700	0.0378	200.726	0.0
setTask885	3	126	0.5317	0.0907	196.506	0.008948249383263752
setTask886	3	180	0.5111	0.3707	389.504	0.009633442240836116
setTask887	3	180	0.5056	0.2006	131.581	0.0
setTask888	3	200	0.5350	0.0590	105.574	0.0016844764406027236
setTask889	3	200	0.5450	0.1287	740.704	0.009898129086915999
setTask89	2	200	0.2200	0.0389	224.873	0.0
setTask890	3	56	0.5357	0.0618	130.208	0.009799118156834583
setTask891	3	120	0.5333	0.0579	214.536	0.0
setTask892	3	126	0.5159	0.4604	151.765	0.006238303181521116
setTask893	3	96	0.5208	0.1386	954.315	0.0
setTask894	3	176	0.5170	0.3441	242.504	0.007565550834279915
setTask895	3	72	0.5278	0.0409	287.731	0.0
setTask896	3	80	0.5125	0.2472	756.751	0.0
setTask897	3	195	0.5282	0.4490	621.931	0.009671179883945705
setTask898	3	144	0.5069	0.4135	571.059	0.004896360396611376
setTask899	3	168	0.5119	0.2617	120.071	0.0
setTask9	2	152	0.2039	0.0469	62.041	0.005988023952095787
setTask90	2	140	0.2071	0.1067	248.423	0.0
setTask900	3	84	0.6429	0.1127	278.941	0.003906249999999778
setTask901	3	180	0.6056	0.0888	100.744	0.006727664155005537
setTask902	3	56	0.6429	0.0409	126.103	0.0
setTask903	3	54	0.6111	0.3715	179.521	0.008478421142092261
setTask904	3	54	0.6481	0.0740	103.044	0.00859106529209168
setTask905	3	56	0.6964	0.0120	264.425	0.0
setTask906	3	99	0.6465	0.0129	24.097	0.0

setTask907	3	180	0.6722	0.0289	563.797	0.0
setTask908	3	72	0.6528	0.0493	106.576	0.009763638203628688
setTask909	3	66	0.6212	0.0141	270.678	0.0
setTask91	2	200	0.2100	0.0708	29.755	0.0
setTask910	3	200	0.6600	0.0189	607.021	0.006037446882349921
setTask911	3	156	0.6218	0.0778	34.534	0.0
setTask912	3	84	0.6310	0.0419	139.704	0.0
setTask913	3	80	0.6500	0.0210	355.224	0.0
setTask914	3	60	0.6167	0.0588	843.734	0.0035087719298258265
setTask915	3	60	0.6333	0.0768	465.607	0.001679731243000696
setTask916	3	200	0.6450	0.3312	395.059	0.007724312146790619
setTask917	3	176	0.6193	19.458	414.056	0.007226513830055652
setTask918	3	200	0.6300	0.2330	126.686	0.009866052138844778
setTask919	3	200	0.6300	0.0101	324.325	0.008561341571049385
setTask92	2	200	0.2400	0.0405	200.642	0.002851323828902099
setTask920	3	180	0.6500	0.5036	740.629	0.0
setTask921	3	198	0.6465	0.2749	102.465	0.009987113402062344
setTask922	3	140	0.6143	0.1315	124.456	0.0
setTask923	3	132	0.6136	0.2274	115.231	0.009025270758122846
setTask924	3	180	0.6056	0.2695	40.637	0.0
setTask925	3	168	0.6726	0.0312	36.345	0.008976660682226315
setTask926	3	50	0.6200	0.0533	170.201	0.008430193135425701
setTask927	3	120	0.6167	0.2523	10.604	0.0
setTask928	3	108	0.6389	0.2882	115.754	0.00985989554776528
setTask929	3	95	0.6211	0.0893	224.868	0.009176182737946684
setTask93	2	200	0.2300	0.0378	452.157	0.0
setTask930	3	90	0.6778	0.0534	312.794	0.0025171624713968108
setTask931	3	100	0.6100	0.4167	102.127	0.0
setTask932	3	63	0.6190	0.5248	185.776	0.008088971491704709
setTask933	3	168	0.6369	0.5009	508.958	0.0

setTask934	3	132	0.6364	0.0967	282.106	0.0016200294775910058
setTask935	3	198	0.6364	0.5357	818.765	0.001114812603540731
setTask936	3	98	0.6327	0.4124	180.926	0.009890859481582614
setTask937	3	189	0.6614	0.0687	152.684	0.0055082623935904
setTask938	3	60	0.6167	0.0414	443.738	0.0
setTask939	3	192	0.6406	0.2699	14.633	0.009860312243219288
setTask94	2	200	0.2350	0.0156	410.127	0.0
setTask940	3	161	0.6584	0.0312	237.531	0.0
setTask941	3	170	0.6588	0.3204	280.921	0.008725406330190673
setTask942	3	189	0.6138	0.4323	153.282	0.0
setTask943	3	180	0.6278	0.2653	440.008	0.007058823529412281
setTask944	3	200	0.6600	0.0918	379.581	0.008625242034853084
setTask945	3	200	0.7350	0.0159	750.358	0.0
setTask946	3	200	0.6900	0.0846	858.199	0.0049963392224677584
setTask947	3	120	0.6417	0.1159	150.714	0.004038655704591986
setTask948	3	200	0.7350	0.0000	197.898	0.008495520543714018
setTask949	3	60	0.6167	0.0156	241.693	0.0
setTask95	2	200	0.2100	0.0156	363.372	0.0
setTask950	3	180	0.6333	0.5670	110.404	0.009651284052876876
setTask951	3	156	0.6346	0.0467	324.639	0.007060900264783735
setTask952	3	200	0.6350	0.3652	842.619	0.0055890985722910425
setTask953	3	180	0.6111	15.070	314.737	0.0
setTask954	3	108	0.6296	0.1576	112.679	0.008879542092080294
setTask955	3	153	0.6405	0.4434	303.294	0.007848447556884422
setTask956	3	168	0.6726	0.0110	322.433	0.0
setTask957	3	50	0.6600	0.0156	120.058	0.0
setTask958	3	180	0.6056	15.605	561.066	0.009925949267427429
setTask959	3	140	0.6214	0.3621	916.574	0.0
setTask96	2	200	0.2150	0.0406	760.923	0.004266558309603366
setTask960	3	50	0.6400	0.0568	172.635	0.0

setTask961	3	180	0.6222	0.6015	107.854	0.007590132827328887
setTask962	3	180	0.6222	0.1380	735.132	0.009362303479950745
setTask963	3	160	0.6312	0.1002	263.283	0.0018038701213511676
setTask964	3	200	0.6350	0.4029	226.835	0.006110945706578156
setTask965	3	198	0.6061	0.3900	39.251	0.0
setTask966	3	60	0.6500	0.0239	996.409	0.0
setTask967	3	90	0.6222	0.1147	36.773	0.0066666666666666715
setTask968	3	126	0.6270	0.4628	190.821	0.009893643334148468
setTask969	3	168	0.6310	0.7595	135.064	0.008838738904129787
setTask97	2	84	0.2024	0.0228	415.378	0.0
setTask970	3	160	0.6188	0.1865	355.527	0.009980988603619928
setTask971	3	90	0.6333	0.1955	754.981	0.0
setTask972	3	180	0.6167	0.5815	832.547	0.0
setTask973	3	132	0.6439	0.0544	815.636	0.0
setTask974	3	195	0.6256	0.0613	552.787	0.0042296616270691145
setTask975	3	126	0.6111	0.2694	104.254	0.0
setTask976	3	156	0.6474	0.2946	158.314	0.007887090078904301
setTask977	3	200	0.6900	0.1282	215.978	0.007829689479306921
setTask978	3	132	0.6364	0.2695	100.164	0.008248556502612763
setTask979	3	126	0.6508	0.0366	103.61	0.0
setTask98	2	200	0.2450	0.0377	307.425	0.0
setTask980	3	168	0.6310	0.3591	162.319	0.0091733483343232
setTask981	3	120	0.6167	0.1849	151.831	0.007250129466597415
setTask982	3	120	0.6083	0.3830	211.837	0.0
setTask983	3	170	0.7294	0.0156	331.554	0.006467439785905213
setTask984	3	200	0.7100	0.0312	246.365	0.0
setTask985	3	200	0.6600	0.1002	113.224	0.009455076701029267
setTask986	3	140	0.6143	0.4258	152.074	0.0
setTask987	3	180	0.6944	0.1425	744.047	0.00815505781154003
setTask988	3	60	0.6333	0.0156	223.965	0.0

setTask989	3	126	0.6270	0.0625	396.898	0.00807823129251691
setTask99	2	200	0.2450	0.0313	342.276	0.0
setTask990	3	200	0.6600	0.0156	235.206	0.004840523461912602
setTask991	3	60	0.6167	0.1060	104.503	0.006681514476592976
setTask992	3	90	0.6222	0.2068	24.032	0.006191950464396649
setTask993	3	126	0.6111	0.0990	81.272	0.008793969849246125
setTask994	3	70	0.6143	0.0156	344.021	0.0
setTask995	3	168	0.7024	0.0312	702.037	0.0041580041580034244
setTask996	3	72	0.6528	0.0690	964.971	0.0
setTask997	3	60	0.6167	0.0690	31.547	0.0
setTask998	3	150	0.6200	10.033	155.076	0.007545312884441958
setTask999	3	192	0.6094	10.169	654.136	0.008632399401972893

Tabla 8. Resultados de Gurobi

Task	N	H	U	Time	OBJ	GAP
setTask0	2	200	0.2150	140.936	27.039	0.0001
setTask1	2	200	0.2100	89.768	185.464	0.0001
setTask2	2	84	0.2024	11.123	122.054	0.0001
setTask3	2	200	0.2200	46.300	130.446	0.0001
setTask4	2	200	0.2250	39.979	103.235	0.0001
setTask5	2	175	0.2114	5.002.669	877.752	798.723
setTask6	2	78	0.2051	0.8648	184.762	0.0001
setTask7	2	200	0.2050	105.118	310.939	0.0001
setTask8	2	200	0.2250	5.001.049	803.743	430.059
setTask9	2	152	0.2039	66.114	212.821	0.0001
setTask10	2	200	0.2450	5.001.100	100.976	917.204
setTask11	2	64	0.2031	0.4701	0.666667	7,29E+00
setTask12	2	54	0.2037	0.6905	123.611	0.0001
setTask13	2	200	0.2100	41.398	155.905	0.0001
setTask14	2	200	0.2400	5.002.041	100.926	917.649
setTask15	2	200	0.2150	5.002.341	803.704	430.077
setTask16	2	180	0.2167	5.002.299	120.234	824.553
setTask17	2	200	0.2100	94.803	289.714	0.0001
setTask18	2	200	0.2400	65.269	313.878	0.0001
setTask19	2	200	0.2400	5.002.299	133.911	922.057
setTask20	2	200	0.2450	152.599	234.844	0.0001
setTask21	2	140	0.2071	473.353	177.778	0.0001
setTask22	2	200	0.2200	51.099	3.4	0.0001
setTask23	2	200	0.2100	73.197	188.818	0.0001
setTask24	2	200	0.2350	5.002.351	100.466	921.805
setTask25	2	168	0.2083	5.002.098	556.373	686.056
setTask26	2	200	0.2200	140.598	227.817	0.0001
setTask27	2	200	0.2200	43.396	121.315	0.0001
setTask28	2	200	0.2400	5.002.096	134.121	920.632
setTask29	2	200	0.2150	123.373	27.201	0.0001
setTask30	2	168	0.2202	5.002.000	720.755	734.788
setTask31	2	200	0.2400	118.857	291.744	0.0001
setTask32	2	155	0.2323	104.810	15.8	0.0001
setTask33	2	200	0.2050	40.912	110.679	0.0001
setTask34	2	200	0.2450	5.002.500	808.553	427.559
setTask35	2	200	0.2300	47.097	169.524	0.0001
setTask36	2	99	0.2020	33.933	30.625	0.0001
setTask37	2	200	0.2200	5.002.514	447.741	428.892
setTask38	2	200	0.2150	5.002.493	133.619	924.052
setTask39	2	132	0.2121	5.002.094	2.6	275.003
setTask40	2	198	0.2020	142.888	180.565	0.0001
setTask41	2	200	0.2350	50.383	150.794	0.0001
setTask42	2	200	0.2450	135.871	220.015	0.0001
setTask43	2	126	0.2063	485.058	204.167	0.0001

setTask44	2	189	0.2063	3.266.347	285.294	0.0001
setTask45	2	200	0.2450	5.002.399	451.077	425.795
setTask46	2	200	0.2150	39.320	138.832	0.0001
setTask47	2	198	0.2020	5.002.180	313.636	38.046
setTask48	2	200	0.2200	5.002.995	504.878	427.938
setTask49	2	200	0.2450	5.002.656	100.727	919.442
setTask50	2	200	0.2150	109.705	289.692	0.0001
setTask51	2	200	0.2300	140.399	290.923	0.0001
setTask52	2	69	0.2029	0.6002	0.698093	7,43E-01
setTask53	2	54	0.2037	0.5701	0.403846	8,78E+00
setTask54	2	99	0.2020	0.9602	0.798097	7,35E+00
setTask55	2	84	0.2143	35.850	409.211	0.0001
setTask56	2	200	0.2450	169.802	230.149	0.0001
setTask57	2	200	0.2350	116.265	272.952	0.0001
setTask58	2	200	0.2100	5.002.873	502.151	430.213
setTask59	2	63	0.2063	12.421	166.667	0.0001
setTask60	2	200	0.2100	25.907	132.605	0.0001
setTask61	2	200	0.2400	137.589	200.704	0.0001
setTask62	2	200	0.2350	5.002.278	133.857	922.431
setTask63	2	200	0.2100	132.091	200.176	0.0001
setTask64	2	54	0.2037	0.3803	0.285256	8,79E+00
setTask65	2	184	0.2120	5.002.008	597.619	774.873
setTask66	2	200	0.2100	68.117	253.226	0.0001
setTask67	2	200	0.2250	86.347	25.596	0.0001
setTask68	2	66	0.2121	16.519	281.897	0.0001
setTask69	2	150	0.2200	5.002.553	851.515	649.661
setTask70	2	174	0.2011	31.042	0.772251	0.0001
setTask71	2	200	0.2100	86.960	338.375	0.0001
setTask72	2	200	0.2100	83.893	214.253	0.0001
setTask73	2	200	0.2350	99.295	246.078	0.0001
setTask74	2	200	0.2350	88.525	207.229	0.0001
setTask75	2	200	0.2100	40.520	109.692	0.0001
setTask76	2	114	0.2018	14.265	0.977273	0.0001
setTask77	2	200	0.2250	5.002.295	577.679	42.743
setTask78	2	78	0.2051	0.9565	0.77193	0.0001
setTask79	2	136	0.2132	5.002.119	361.538	533.924
setTask80	2	200	0.2450	5.002.277	134.405	918.707
setTask81	2	200	0.2400	5.002.654	672.481	428.366
setTask82	2	200	0.2300	114.380	29.127	0.0001
setTask83	2	112	0.2054	5.002.088	4	451.281
setTask84	2	123	0.2033	0.9376	0.924739	6,04E+00
setTask85	2	200	0.2250	114.268	200.667	0.0001
setTask86	2	90	0.2111	19.676	230.769	0.0001
setTask87	2	200	0.2200	5.002.231	669.982	429.927
setTask88	2	90	0.2333	1.419.504	608.163	0.0001

setTask89	2	200	0.2200	73.582	255.357	0.0001
setTask90	2	140	0.2071	74.654	148.611	0.0001
setTask91	2	200	0.2100	117.034	226.602	0.0001
setTask92	2	200	0.2400	5.002.506	579.693	425.981
setTask93	2	200	0.2300	114.682	291.925	0.0001
setTask94	2	200	0.2350	5.002.345	100.588	920.699
setTask95	2	200	0.2100	5.002.302	133.542	924.581
setTask96	2	200	0.2150	5.002.164	575.527	428.992
setTask97	2	84	0.2024	0.8767	113.559	0.0001
setTask98	2	200	0.2450	103.957	370.202	0.0001
setTask99	2	200	0.2450	5.002.216	578.307	426.983
setTask100	2	72	0.3056	0.7993	201.136	0.0001
setTask101	2	104	0.3269	5.001.798	5.25	229.375
setTask102	2	189	0.3016	90.602	260.675	0.0001
setTask103	2	200	0.3350	5.002.099	755.236	289.231
setTask104	2	156	0.3013	5.001.946	481.159	209.991
setTask105	2	188	0.3138	5.002.207	161.505	860.132
setTask106	2	88	0.3068	5.002.399	477.143	245.698
setTask107	2	126	0.3095	510.502	240.196	0.0001
setTask108	2	90	0.3111	5.001.864	520.588	167.388
setTask109	2	60	0.3167	10.669	211.111	0.0001
setTask110	2	195	0.3077	5.002.097	387.791	23.084
setTask111	2	156	0.3141	5.002.353	698.413	300.042
setTask112	2	96	0.3021	18.802	121.252	0.0001
setTask113	2	175	0.3029	104.398	296.524	0.0001
setTask114	2	200	0.3250	63.113	245.274	0.0001
setTask115	2	135	0.3111	564.052	267.857	0.0001
setTask116	2	140	0.3143	5.002.176	456.364	199.864
setTask117	2	114	0.3246	5.001.850	5.55	375.501
setTask118	2	148	0.3041	124.818	189.348	0.0001
setTask119	2	138	0.3188	5.002.016	82.619	563.426
setTask120	2	150	0.3267	5.001.897	574.569	206.263
setTask121	2	140	0.3071	53.499	174.667	0.0001
setTask122	2	160	0.3063	43.698	212.879	0.0001
setTask123	2	168	0.3036	63.646	328.302	0.0001
setTask124	2	200	0.3100	5.002.205	754.274	289.583
setTask125	2	189	0.3069	5.002.346	13.539	424.747
setTask126	2	108	0.3056	87.406	2	0.0001
setTask127	2	119	0.3193	5.001.948	501.515	346.627
setTask128	2	200	0.3250	5.002.153	672.464	288.742
setTask129	2	84	0.3095	13.384	235.294	0.0001
setTask130	2	66	0.3030	0.7498	0.791209	6,40E+00
setTask131	2	90	0.3222	5.002.398	5.45	973.681
setTask132	2	200	0.3100	80.500	288.966	0.0001
setTask133	2	96	0.3021	18.453	217.483	0.0001

setTask134	2	60	0.3167	19.253	788.462	0.0001
setTask135	2	88	0.3409	34.161	111.467	0.0001
setTask136	2	170	0.3176	5.002.150	676.923	345.036
setTask137	2	200	0.3200	5.002.845	100.455	289.898
setTask138	2	198	0.3030	5.002.047	512.222	250.331
setTask139	2	200	0.3250	5.002.677	100.513	289.736
setTask140	2	63	0.3333	16.449	370.417	0.0001
setTask141	2	80	0.3375	35.251	10.137	0.0001
setTask142	2	200	0.3400	5.002.348	101.333	287.468
setTask143	2	168	0.3095	2.972.995	466.667	0.0001
setTask144	2	165	0.3636	300.300	275.497	0.0001
setTask145	2	190	0.3053	5.002.174	968.333	394.415
setTask146	2	168	0.3036	62.299	159.957	0.0001
setTask147	2	200	0.3050	104.001	358.088	0.0001
setTask148	2	56	0.3036	22.754	711.765	0.0001
setTask149	2	60	0.3167	0.9999	2.4	0.0001
setTask150	2	110	0.3091	27.947	257.919	0.0001
setTask151	2	72	0.3056	0.8901	23.267	0.0001
setTask152	2	98	0.3061	18.595	323.611	0.0001
setTask153	2	105	0.3143	22.950	345.455	0.0001
setTask154	2	52	0.3077	0.9453	109.764	0.0001
setTask155	2	126	0.3095	5.001.896	343.333	193.014
setTask156	2	190	0.3316	5.002.195	106.923	793.026
setTask157	2	108	0.3056	21.850	12.987	0.0001
setTask158	2	120	0.3083	5.002.243	3.2	245.421
setTask159	2	140	0.3071	5.002.196	8.125	562.269
setTask160	2	90	0.3111	240.798	357.143	0.0001
setTask161	2	72	0.3056	16.896	261.538	0.0001
setTask162	2	80	0.3125	16.197	169.551	0.0001
setTask163	2	117	0.3675	0.2602	390.741	1,82E-11
setTask164	2	84	0.3095	461.055	267.273	0.0001
setTask165	2	200	0.3300	80.950	507.792	0.0001
setTask166	2	68	0.3088	19.528	883.333	0.0001
setTask167	2	132	0.3409	44.554	146.947	0.0001
setTask168	2	200	0.3400	82.004	612.174	0.0001
setTask169	2	120	0.3250	5.001.899	7.125	332.127
setTask170	2	198	0.3131	5.002.201	756.349	419.964
setTask171	2	78	0.3205	5.001.749	480.556	124.604
setTask172	2	150	0.3067	67.951	311.228	0.0001
setTask173	2	112	0.3036	30.548	231.621	0.0001
setTask174	2	115	0.3304	5.001.898	886.667	452.105
setTask175	2	90	0.3111	26.352	271.429	0.0001
setTask176	2	168	0.3036	44.398	144.602	0.0001
setTask177	2	200	0.3250	71.500	509.091	0.0001
setTask178	2	76	0.3026	0.7535	0.74001	0.0001

setTask179	2	200	0.3100	86.101	382.692	0.0001
setTask180	2	124	0.3065	17.448	172.069	0.0001
setTask181	2	62	0.3065	0.5599	0.721908	8,11E+00
setTask182	2	108	0.3056	16.603	137.045	0.0001
setTask183	2	150	0.3067	33.599	239.234	0.0001
setTask184	2	85	0.3176	5.001.948	5.75	144.361
setTask185	2	175	0.3086	122.452	259.596	0.0001
setTask186	2	60	0.3167	11.749	158.333	0.0001
setTask187	2	200	0.3400	5.002.151	675.362	287.548
setTask188	2	99	0.3131	33.799	475.484	0.0001
setTask189	2	200	0.3050	111.897	255.152	0.0001
setTask190	2	198	0.3030	812.947	328.226	0.0001
setTask191	2	52	0.3269	62.018	4.75	0.0001
setTask192	2	120	0.3167	5.002.064	5.625	240.236
setTask193	2	192	0.3073	5.002.204	374.098	350.293
setTask194	2	108	0.3148	41.399	395.238	0.0001
setTask195	2	165	0.3152	5.002.294	707.692	330.239
setTask196	2	90	0.3111	31.681	286.957	0.0001
setTask197	2	176	0.3068	1.945.582	259.231	0.0001
setTask198	2	160	0.3250	5.002.001	116.267	677.947
setTask199	2	176	0.3068	206.290	27.807	0.0001
setTask200	2	130	0.4308	5.001.849	101.467	503.955
setTask201	2	184	0.4239	5.001.992	121.286	348.073
setTask202	2	200	0.4400	5.002.247	11.525	218.992
setTask203	2	120	0.4083	5.002.145	8.52	251.188
setTask204	2	150	0.4133	105.997	170.769	0.0001
setTask205	2	143	0.4266	5.002.350	9.125	217.598
setTask206	2	150	0.4333	175.798	255.366	0.0001
setTask207	2	200	0.4350	5.002.202	134.327	21.919
setTask208	2	200	0.4300	95.449	581.955	0.0001
setTask209	2	105	0.4095	35.201	2.95	0.0001
setTask210	2	140	0.4071	43.848	260.847	0.0001
setTask211	2	112	0.4107	22.949	358.384	0.0001
setTask212	2	72	0.4028	0.9900	144.474	0.0001
setTask213	2	182	0.4121	5.002.048	723.077	20.703
setTask214	2	90	0.4111	21.803	211.706	0.0001
setTask215	2	154	0.4156	5.002.098	423.333	18.52
setTask216	2	150	0.4067	5.001.973	829.762	522.319
setTask217	2	75	0.4133	14.093	237.968	0.0001
setTask218	2	177	0.4520	215.401	301.596	0.0001
setTask219	2	96	0.4167	2.974.202	5.45	0.0001
setTask220	2	200	0.4350	165.903	267.533	0.0001
setTask221	2	200	0.4150	5.002.298	114.686	22.002
setTask222	2	200	0.4050	5.002.293	114.563	220.244
setTask223	2	70	0.4143	22.735	369.444	0.0001

setTask224	2	156	0.4295	143.700	207.333	0.0001
setTask225	2	200	0.4200	99.100	539.963	0.0001
setTask226	2	54	0.4074	13.900	271.429	0.0001
setTask227	2	200	0.4450	5.002.151	101.083	218.502
setTask228	2	136	0.4265	5.002.095	763.636	241.763
setTask229	2	136	0.4265	5.001.912	592.857	248.797
setTask230	2	54	0.4074	0.4298	164.462	5,78E+00
setTask231	2	154	0.4026	715.500	586.111	0.0001
setTask232	2	196	0.4031	80.045	331.818	0.0001
setTask233	2	84	0.4048	27.197	474.725	0.0001
setTask234	2	200	0.4350	0.3400	400.681	1,77E-11
setTask235	2	200	0.4300	5.002.082	114.791	219.828
setTask236	2	184	0.4076	94.498	173.559	0.0001
setTask237	2	158	0.5506	0.5352	79.283	7,51E+00
setTask238	2	200	0.4250	5.002.055	895.364	219.228
setTask239	2	165	0.4182	70.703	678.511	0.0001
setTask240	2	69	0.4058	0.9300	139.617	0.0001
setTask241	2	104	0.4327	5.001.847	616.667	213.067
setTask242	2	120	0.4083	25.203	271.507	0.0001
setTask243	2	170	0.4176	5.001.904	836.571	227.526
setTask244	2	200	0.5450	0.3501	100.138	1,42E-11
setTask245	2	84	0.4167	16.703	418.966	0.0001
setTask246	2	160	0.4188	5.001.895	565.385	259.606
setTask247	2	200	0.4050	5.002.647	200.159	46.754
setTask248	2	200	0.4250	5.002.220	200.492	46.678
setTask249	2	90	0.4111	40.000	386.667	0.0001
setTask250	2	160	0.4625	40.546	32.75	0.0001
setTask251	2	136	0.4338	5.001.803	847.143	223.774
setTask252	2	200	0.4300	89.499	544.809	0.0001
setTask253	2	200	0.5350	0.3451	100.089	1,42E-11
setTask254	2	150	0.4733	20.952	508.158	0.0001
setTask255	2	117	0.4188	5.002.152	883.333	20.605
setTask256	2	200	0.5400	0.2702	100.115	0
setTask257	2	168	0.4107	5.002.345	13.4	354.128
setTask258	2	192	0.4219	87.349	181.304	0.0001
setTask259	2	200	0.4200	84.599	160.602	0.0001
setTask260	2	144	0.4167	47.797	544.118	0.0001
setTask261	2	144	0.4028	56.764	298.936	0.0001
setTask262	2	168	0.4405	5.001.852	148.966	362.243
setTask263	2	136	0.4191	5.002.101	564.286	307.733
setTask264	2	200	0.4100	58.149	806.757	0.0001
setTask265	2	200	0.4300	5.002.144	134.023	219.664
setTask266	2	140	0.4143	5.002.001	630.303	231.863
setTask267	2	165	0.4242	5.002.197	8	341.042
setTask268	2	140	0.4214	5.002.500	12.859	588.557

setTask269	2	126	0.4206	5.001.849	663.636	295.137
setTask270	2	105	0.4190	5.002.000	8.325	205.195
setTask271	2	200	0.4150	90.234	581.614	0.0001
setTask272	2	117	0.4103	5.001.955	931.111	188.939
setTask273	2	144	0.4028	2.608.797	483.333	0.0001
setTask274	2	132	0.4091	597.398	537.815	0.0001
setTask275	2	200	0.4150	5.002.665	133.917	21.983
setTask276	2	105	0.4095	5.001.596	590.909	267.575
setTask277	2	150	0.4133	5.002.300	107.083	328.619
setTask278	2	200	0.4300	0.3049	400.909	1,77E-11
setTask279	2	88	0.4318	501.147	7.6	0.0001
setTask280	2	190	0.4158	5.002.197	9.8	396.562
setTask281	2	200	0.4450	97.999	161.339	0.0001
setTask282	2	170	0.4176	5.002.200	81.039	230.545
setTask283	2	182	0.4066	5.002.102	508.333	203.048
setTask284	2	176	0.4261	5.002.179	779.091	257.095
setTask285	2	200	0.5400	0.2898	100.099	0
setTask286	2	114	0.4298	5.002.185	7.3	294.251
setTask287	2	50	0.4200	11.246	319.231	0.0001
setTask288	2	200	0.5300	0.3473	100.092	0
setTask289	2	133	0.4060	5.002.057	646.667	375.478
setTask290	2	196	0.4031	95.579	391.048	0.0001
setTask291	2	126	0.4206	5.002.039	626.667	347.234
setTask292	2	161	0.4037	5.002.544	623.333	474.126
setTask293	2	200	0.5400	0.2851	100.137	0
setTask294	2	120	0.4083	84.319	215.072	0.0001
setTask295	2	190	0.4263	229.853	255.686	0.0001
setTask296	2	57	0.4561	19.695	9.72	0.0001
setTask297	2	176	0.4148	5.001.859	739.316	179.367
setTask298	2	135	0.4370	5.001.950	138.478	306.475
setTask299	2	140	0.4071	152.025	313.859	0.0001
setTask300	2	110	0.5273	426.097	5.85	0.0001
setTask301	2	182	0.5220	5.002.052	132.222	206.344
setTask302	2	140	0.5071	228.254	307.259	0.0001
setTask303	2	126	0.5397	3.764.561	8.525	0.0001
setTask304	2	110	0.5091	1.232.129	592.045	0.0001
setTask305	2	120	0.5250	43.413	7.6	0.0001
setTask306	2	198	0.5202	5.002.583	821.667	436.362
setTask307	2	200	0.5450	0.3631	501.293	0
setTask308	2	200	0.5300	5.002.680	143.917	177.264
setTask309	2	200	0.5200	5.002.792	14.336	227.142
setTask310	2	52	0.5577	261.654	624.242	0.0001
setTask311	2	84	0.5238	222.333	476.364	0.0001
setTask312	2	176	0.5057	1.101.481	566.992	0.0001
setTask313	2	153	0.5229	5.002.083	848.864	230.982

setTask314	2	126	0.5476	62.255	159.375	0.0001
setTask315	2	72	0.5417	0.2289	828.846	2,14E-11
setTask316	2	176	0.5170	5.001.996	108.194	225.727
setTask317	2	90	0.5111	5.001.828	587.302	703.947
setTask318	2	62	0.6290	0.3720	315.769	9,52E+00
setTask319	2	165	0.5152	1.094.689	649.242	0.0001
setTask320	2	140	0.5286	5.001.916	763.077	115.591
setTask321	2	200	0.5450	0.3023	501.022	0
setTask322	2	176	0.5227	5.002.115	120.909	20.956
setTask323	2	144	0.5069	82.127	548.377	0.0001
setTask324	2	200	0.5250	96.599	200.922	0.0001
setTask325	2	120	0.5250	5.002.014	719.444	119.695
setTask326	2	143	0.5315	5.002.499	113.571	176.549
setTask327	2	160	0.5062	647.337	340.054	0.0001
setTask328	2	120	0.5167	272.175	476.623	0.0001
setTask329	2	90	0.5333	5.002.507	8.2	232.885
setTask330	2	132	0.5227	5.002.783	603.509	570.322
setTask331	2	200	0.5250	0.3250	100.071	1,42E-11
setTask332	2	126	0.6429	0.4591	640.294	6,41E+00
setTask333	2	60	0.5667	11.972	77.439	0.0001
setTask334	2	130	0.5077	5.002.082	111.167	463.148
setTask335	2	112	0.5179	24.950	613.889	0.0001
setTask336	2	126	0.5159	3.733.020	434.759	0.0001
setTask337	2	60	0.5167	1.341.979	8	0.0001
setTask338	2	148	0.5405	0.5349	371.714	2,18E+00
setTask339	2	112	0.5357	5.002.092	938.889	176.219
setTask340	2	132	0.5227	5.002.323	13	168.854
setTask341	2	200	0.5300	0.3181	100.064	0
setTask342	2	70	0.5286	19.628	379.762	0.0001
setTask343	2	65	0.5077	1.564.449	5.65	0.0001
setTask344	2	180	0.5222	5.002.333	762.121	112.248
setTask345	2	120	0.5333	5.002.125	109.714	241.837
setTask346	2	160	0.5188	5.002.296	765.517	19.255
setTask347	2	120	0.5333	5.002.328	9.5	354.018
setTask348	2	105	0.5619	85.468	194.444	0.0001
setTask349	2	84	0.5238	31.270	5.125	0.0001
setTask350	2	75	0.5733	48.913	13.8	0.0001
setTask351	2	200	0.5400	0.3991	100.084	1,42E-12
setTask352	2	132	0.5455	5.001.940	134.941	195.857
setTask353	2	130	0.5615	0.3961	652.025	2,18E-11
setTask354	2	66	0.5152	35.802	11.85	0.0001
setTask355	2	96	0.5312	30.119	445.837	0.0001
setTask356	2	132	0.5152	5.002.217	114.524	176.978
setTask357	2	105	0.5238	14.354	62.663	0.0001
setTask358	2	72	0.5417	23.644	705.455	0.0001

setTask359	2	110	0.5364	364.663	9.25	0.0001
setTask360	2	90	0.5333	1.520.314	8.175	0.0001
setTask361	2	200	0.5250	232.221	334.142	0.0001
setTask362	2	60	0.5167	17.651	9.25	0.0001
setTask363	2	108	0.5093	35.369	242.769	0.0001
setTask364	2	148	0.5338	157.512	247.526	0.0001
setTask365	2	120	0.5083	51.209	356.092	0.0001
setTask366	2	126	0.5238	132.015	596.023	0.0001
setTask367	2	84	0.5238	21.318	5.025	0.0001
setTask368	2	120	0.5167	48.620	374.725	0.0001
setTask369	2	54	0.6111	0.3093	27.55	5,85E+00
setTask370	2	189	0.5079	5.002.969	11.36	359.246
setTask371	2	84	0.5357	58.831	105.455	0.0001
setTask372	2	84	0.5238	61.590	3.95	0.0001
setTask373	2	198	0.5404	167.594	249.964	0.0001
setTask374	2	112	0.5536	28.414	176.429	0.0001
setTask375	2	154	0.5130	66.799	783.175	0.0001
setTask376	2	120	0.5250	4.264.967	694.444	0.0001
setTask377	2	70	0.5286	11.147	320.635	0.0001
setTask378	2	190	0.5158	5.002.283	102.952	274.107
setTask379	2	60	0.5167	14.448	25.101	0.0001
setTask380	2	52	0.5192	0.8596	312.987	0.0001
setTask381	2	66	0.5303	20.535	547.917	0.0001
setTask382	2	108	0.5463	70.781	159.706	0.0001
setTask383	2	80	0.5125	15.830	232.292	0.0001
setTask384	2	65	0.5077	381.281	733.333	0.0001
setTask385	2	200	0.5300	0.3465	100.096	1,42E-11
setTask386	2	56	0.5357	205.127	52.619	0.0001
setTask387	2	166	0.6084	0.5078	837.955	4,34E+00
setTask388	2	176	0.5114	5.002.236	836.364	134.883
setTask389	2	200	0.5300	94.605	167.561	0.0001
setTask390	2	150	0.5067	426.099	521.111	0.0001
setTask391	2	150	0.5067	217.083	379.337	0.0001
setTask392	2	70	0.5143	27.097	4.65	0.0001
setTask393	2	140	0.5071	1.103.992	978.571	0.0001
setTask394	2	144	0.5208	591.573	511.429	0.0001
setTask395	2	84	0.5119	21.049	267.628	0.0001
setTask396	2	120	0.5250	5.002.009	129.565	256.979
setTask397	2	130	0.5308	5.002.300	766.667	165.837
setTask398	2	126	0.5079	1.874.755	717.857	0.0001
setTask399	2	140	0.5143	360.805	506.349	0.0001
setTask400	2	105	0.6190	39.270	12.194	0.0001
setTask401	2	126	0.6349	55.674	146.174	0.0001
setTask402	2	84	0.6429	4.630.642	736.364	0.0001
setTask403	2	78	0.6795	0.4881	39.871	7,00E+00

setTask404	2	76	0.6316	32.747	133.333	0.0001
setTask405	2	96	0.6146	5.002.162	791.852	168.926
setTask406	2	105	0.6286	69.047	136.071	0.0001
setTask407	2	153	0.6209	204.867	165.333	0.0001
setTask408	2	90	0.6222	31.333	581.818	0.0001
setTask409	2	90	0.6333	65.828	475.897	0.0001
setTask410	2	90	0.6222	5.001.992	740.278	570.758
setTask411	2	54	0.6111	0.7273	5.3	0.0001
setTask412	2	94	0.6489	0.5272	477.105	9,60E+00
setTask413	2	104	0.6154	23.406	109.455	0.0001
setTask414	2	170	0.6059	5.002.087	984.203	144.011
setTask415	2	110	0.6273	0.5135	557.105	6,64E+00
setTask416	2	114	0.6579	57.371	150.962	0.0001
setTask417	2	102	0.7059	0.2983	342.353	2,08E-11
setTask418	2	198	0.6212	5.002.092	145.455	183.712
setTask419	2	132	0.6061	5.002.251	843.333	485.385
setTask420	2	80	0.6250	17.311	446.154	0.0001
setTask421	2	117	0.6068	5.002.261	876.623	151.959
setTask422	2	200	0.6600	0.3553	251.571	2,26E-10
setTask423	2	84	0.6429	265.670	985.714	0.0001
setTask424	2	140	0.6071	1.087.588	424.109	0.0001
setTask425	2	200	0.6450	0.3513	20.25	1,75E-10
setTask426	2	60	0.6167	15.185	3.5	0.0001
setTask427	2	112	0.6071	21.169	540.385	0.0001
setTask428	2	156	0.6282	5.001.965	14.875	168.155
setTask429	2	63	0.6190	19.795	10.3	0.0001
setTask430	2	60	0.6333	32.546	522.222	0.0001
setTask431	2	75	0.6133	49.668	137.917	0.0001
setTask432	2	140	0.6071	5.001.913	100.179	118.035
setTask433	2	165	0.6061	5.002.760	136.667	162.969
setTask434	2	90	0.6222	5.002.149	8	113.447
setTask435	2	144	0.7083	0.3341	482.143	1,47E-11
setTask436	2	143	0.6224	5.002.180	939.091	15.344
setTask437	2	96	0.6250	19.336	75.023	0.0001
setTask438	2	70	0.6286	34.688	533.333	0.0001
setTask439	2	190	0.6105	5.002.344	128.571	186.286
setTask440	2	84	0.6190	5.002.438	888.889	124.104
setTask441	2	136	0.6103	5.002.670	133.333	174.409
setTask442	2	180	0.6167	5.002.403	958.333	106.241
setTask443	2	126	0.6190	5.002.369	641.667	953.612
setTask444	2	60	0.6167	17.284	303.167	0.0001
setTask445	2	78	0.7051	0.3628	398.378	9,14E+00
setTask446	2	84	0.6310	27.531	484.286	0.0001
setTask447	2	156	0.6154	0.4864	141.852	6,63E+00
setTask448	2	126	0.6190	5.001.952	861.818	920.377

setTask449	2	126	0.6190	5.002.011	132.143	20.639
setTask450	2	75	0.6933	65.474	144.048	0.0001
setTask451	2	133	0.6165	5.001.993	9.25	234.696
setTask452	2	72	0.6111	21.016	26.123	0.0001
setTask453	2	90	0.6444	136.649	7.35	0.0001
setTask454	2	200	0.6300	0.3556	401.095	2,13E-10
setTask455	2	119	0.6387	5.001.989	102.051	17.048
setTask456	2	56	0.6429	11.971	485.714	0.0001
setTask457	2	105	0.6190	5.001.882	853.846	158.772
setTask458	2	200	0.6050	107.745	171.925	0.0001
setTask459	2	102	0.7353	0.3095	34.375	2,07E-11
setTask460	2	90	0.6333	0.3667	46	7,44E-01
setTask461	2	143	0.6224	194.236	128.571	0.0001
setTask462	2	165	0.6242	2.478.731	784.615	0.0001
setTask463	2	114	0.6930	0.2677	191.667	0
setTask464	2	132	0.6212	5.002.221	9.2	144.463
setTask465	2	92	0.6413	76.573	146.333	0.0001
setTask466	2	84	0.6548	43.707	115.333	0.0001
setTask467	2	60	0.7000	0.4300	157.857	7,07E+00
setTask468	2	140	0.6286	5.002.220	750.549	993.212
setTask469	2	84	0.6905	0.3758	22.25	1,46E+00
setTask470	2	200	0.6350	0.4002	201.044	1,77E-10
setTask471	2	66	0.6364	15.670	968.182	0.0001
setTask472	2	100	0.6100	5.001.981	11.098	341.538
setTask473	2	60	0.6167	17.776	463.333	0.0001
setTask474	2	66	0.6061	22.531	702.105	0.0001
setTask475	2	188	0.6702	44.693	492.593	0.0001
setTask476	2	185	0.6486	0.3957	371.538	2,29E-10
setTask477	2	66	0.6061	312.631	7.475	0.0001
setTask478	2	150	0.6200	5.002.042	584.795	258.656
setTask479	2	84	0.6190	10.861	6.4	0.0001
setTask480	2	90	0.6333	45.238	5	0.0001
setTask481	2	180	0.6556	0.6249	209.524	6,44E-01
setTask482	2	120	0.6500	123.504	18.35	0.0001
setTask483	2	182	0.6264	3.504.634	121.486	0.0001
setTask484	2	108	0.6481	15.934	282.609	0.0001
setTask485	2	168	0.6190	5.002.654	695.238	87.915
setTask486	2	132	0.6136	5.002.289	114.762	144.607
setTask487	2	90	0.6111	4.963.008	698.413	0.0001
setTask488	2	102	0.6373	0.5315	516.585	8,22E+00
setTask489	2	154	0.6169	0.6048	777.447	6,45E+00
setTask490	2	200	0.6450	0.4286	401.429	1,95E-10
setTask491	2	91	0.6044	250.936	874.621	0.0001
setTask492	2	52	0.6154	0.7738	27.795	0.0001
setTask493	2	90	0.6111	89.501	428.571	0.0001

setTask494	2	80	0.6125	29.757	384.163	0.0001
setTask495	2	180	0.6444	5.002.283	139.464	182.214
setTask496	2	63	0.6190	616.834	7.05	0.0001
setTask497	2	195	0.6205	216.056	19.5	0.0001
setTask498	2	120	0.6417	5.002.156	13.6	144.706
setTask499	2	60	0.6333	14.709	328.571	0.0001
setTask500	3	200	0.2250	5.002.783	100.627	92.034
setTask501	3	200	0.2500	5.003.031	101.173	915.424
setTask502	3	200	0.2050	282.905	224.455	0.0001
setTask503	3	200	0.2450	233.602	196.237	0.0001
setTask504	3	200	0.2350	88.253	13.371	0.0001
setTask505	3	105	0.2190	5.002.031	371.014	413.907
setTask506	3	200	0.2350	137.995	210.946	0.0001
setTask507	3	200	0.2400	103.745	143.002	0.0001
setTask508	3	200	0.2100	1.124.890	121.511	0.0001
setTask509	3	200	0.2150	5.002.487	693.276	81.967
setTask510	3	200	0.2250	139.891	109.223	0.0001
setTask511	3	200	0.2100	266.993	31.355	0.0001
setTask512	3	168	0.2024	1.403.299	166.957	0.0001
setTask513	3	200	0.2550	5.002.670	10.111	915.995
setTask514	3	200	0.2150	140.968	227.919	0.0001
setTask515	3	200	0.2450	5.002.313	134.277	91.957
setTask516	3	200	0.2400	169.002	185.175	0.0001
setTask517	3	200	0.2300	113.648	112.458	0.0001
setTask518	3	200	0.2550	5.002.678	100.901	917.873
setTask519	3	200	0.2150	117.857	23.237	0.0001
setTask520	3	200	0.2150	98.328	189.136	0.0001
setTask521	3	200	0.2100	85.596	11.712	0.0001
setTask522	3	200	0.2600	197.369	376.107	0.0001
setTask523	3	200	0.2450	5.002.648	431.256	763.344
setTask524	3	200	0.2500	5.002.798	512.992	421.315
setTask525	3	200	0.2150	104.482	147.047	0.0001
setTask526	3	200	0.2500	101.046	148.783	0.0001
setTask527	3	200	0.2450	5.002.424	456.886	420.491
setTask528	3	200	0.2450	122.981	266.652	0.0001
setTask529	3	200	0.2600	248.339	197.192	0.0001
setTask530	3	200	0.2250	218.085	175.462	0.0001
setTask531	3	200	0.2150	110.250	0.992065	0.0001
setTask532	3	200	0.2300	98.300	122.096	0.0001
setTask533	3	200	0.2250	195.152	192.924	0.0001
setTask534	3	200	0.2600	5.002.651	101.198	915.211
setTask535	3	200	0.2250	143.866	21.052	0.0001
setTask536	3	180	0.2056	5.002.520	30.122	565.254
setTask537	3	200	0.2750	165.081	351.495	0.0001
setTask538	3	200	0.2050	1.049.094	242.568	0.0001

setTask539	3	200	0.2050	82.454	0.896077	0.0001
setTask540	3	200	0.2200	112.184	319.458	0.0001
setTask541	3	200	0.2300	93.586	184.474	0.0001
setTask542	3	148	0.2027	70.755	0.890683	0.0001
setTask543	3	200	0.2550	5.002.587	455.088	422.117
setTask544	3	200	0.2300	96.114	171.129	0.0001
setTask545	3	200	0.2200	164.897	230.723	0.0001
setTask546	3	200	0.2350	5.002.527	133.948	921.803
setTask547	3	200	0.2400	5.002.520	100.924	917.662
setTask548	3	200	0.2400	151.082	152.724	0.0001
setTask549	3	200	0.2750	5.002.362	466.045	412.419
setTask550	3	200	0.2850	5.003.007	135.368	912.235
setTask551	3	200	0.2100	59.034	148.409	0.0001
setTask552	3	168	0.2024	177.412	129.255	0.0001
setTask553	3	200	0.2550	5.002.453	455.178	422.033
setTask554	3	200	0.2250	324.171	199.594	0.0001
setTask555	3	200	0.2450	5.004.627	134.388	918.813
setTask556	3	200	0.2200	65.304	149.861	0.0001
setTask557	3	200	0.2600	248.161	201.326	0.0001
setTask558	3	200	0.2500	232.681	156.172	0.0001
setTask559	3	200	0.2250	136.437	186.701	0.0001
setTask560	3	200	0.2550	5.002.920	134.437	918.487
setTask561	3	200	0.2750	5.002.642	135.192	913.414
setTask562	3	200	0.2400	5.002.902	510.439	423.369
setTask563	3	200	0.2700	5.003.146	461.208	416.644
setTask564	3	200	0.2200	98.643	290.443	0.0001
setTask565	3	200	0.2450	5.002.579	100.884	918.026
setTask566	3	200	0.2250	107.142	122.948	0.0001
setTask567	3	200	0.2050	337.953	234.297	0.0001
setTask568	3	200	0.2600	100.063	160.157	0.0001
setTask569	3	200	0.2250	111.243	155.054	0.0001
setTask570	3	200	0.2200	83.347	129.262	0.0001
setTask571	3	200	0.2400	109.812	16.619	0.0001
setTask572	3	200	0.2900	5.002.524	136.025	907.881
setTask573	3	200	0.2600	147.788	124.984	0.0001
setTask574	3	200	0.2200	1.266.390	189.637	0.0001
setTask575	3	200	0.2050	116.521	154.259	0.0001
setTask576	3	200	0.2750	5.002.862	135.268	912.905
setTask577	3	200	0.2500	5.003.228	100.981	917.152
setTask578	3	200	0.2400	276.478	20.087	0.0001
setTask579	3	200	0.2400	107.708	119.009	0.0001
setTask580	3	200	0.2450	136.380	206.292	0.0001
setTask581	3	200	0.2400	216.689	16.709	0.00378584
setTask582	3	200	0.2450	5.003.045	509.625	424.034
setTask583	3	200	0.2700	5.002.734	589.521	419.036

setTask584	3	200	0.2500	5.002.806	101.312	91.418
setTask585	3	200	0.2500	143.157	132.052	0.0001
setTask586	3	200	0.2400	230.461	233.109	0.0001
setTask587	3	200	0.2200	108.848	211.042	0.0001
setTask588	3	200	0.2300	166.098	160.267	0.0001
setTask589	3	200	0.2150	75.855	11.291	0.0001
setTask590	3	200	0.2400	272.407	101.475	0.0001
setTask591	3	200	0.2250	144.353	168.146	0.0001
setTask592	3	190	0.2053	3.140.682	207.538	0.0001
setTask593	3	200	0.2300	250.463	294.394	0.0001
setTask594	3	200	0.2100	1.483.900	314.122	0.0001
setTask595	3	200	0.2500	67.168	191.987	0.0001
setTask596	3	198	0.2121	5.002.726	538.346	711.912
setTask597	3	200	0.2650	5.002.594	134.614	91.729
setTask598	3	200	0.2400	85.269	141.569	0.0001
setTask599	3	200	0.2300	85.765	10.827	0.0001
setTask600	3	200	0.3550	5.002.401	764.185	285.953
setTask601	3	108	0.3056	5.002.217	482.596	42.285
setTask602	3	72	0.3056	21.738	140.455	0.0001
setTask603	3	200	0.3400	362.905	252.307	0.0001
setTask604	3	168	0.3155	5.002.461	8.2	585.137
setTask605	3	200	0.3050	174.397	296.544	0.0001
setTask606	3	200	0.3400	5.002.283	412.736	148.526
setTask607	3	120	0.3083	5.002.181	327.033	217.259
setTask608	3	168	0.3095	1.612.646	433.962	0.0001
setTask609	3	84	0.3095	118.663	371.026	0.0001
setTask610	3	200	0.3150	502.083	219.231	0.0001
setTask611	3	180	0.3056	5.002.719	485.411	562.113
setTask612	3	200	0.3600	102.449	487.099	0.0001
setTask613	3	200	0.3250	1.206.647	230.539	0.0001
setTask614	3	168	0.3036	322.037	171.543	0.0001
setTask615	3	200	0.3500	5.002.592	176.637	89.356
setTask616	3	200	0.3050	119.934	322.745	0.0001
setTask617	3	200	0.3050	5.002.476	222.679	131.368
setTask618	3	200	0.3100	2.253.808	360.985	0.0001
setTask619	3	80	0.3125	153.900	250.833	0.0001
setTask620	3	144	0.3125	2.310.179	451.786	0.0001
setTask621	3	200	0.3650	5.002.789	768.056	284.559
setTask622	3	200	0.3650	5.002.838	684.325	283.901
setTask623	3	200	0.3350	242.466	245.205	0.0001
setTask624	3	200	0.3150	1.502.732	340.103	0.0001
setTask625	3	120	0.3167	5.002.673	6.3	46.066
setTask626	3	200	0.3450	3.999.064	453.745	0.0001
setTask627	3	90	0.3222	5.002.671	52.619	262.936
setTask628	3	100	0.3200	5.002.298	930.952	415.304

setTask629	3	200	0.3250	436.377	216.374	0.0001
setTask630	3	182	0.3132	5.002.533	437.222	446.755
setTask631	3	154	0.3182	5.002.499	67.619	350.281
setTask632	3	156	0.3077	2.461.902	293.506	0.0001
setTask633	3	140	0.3143	5.002.349	428.063	49.554
setTask634	3	200	0.3500	172.336	320.229	0.0001
setTask635	3	200	0.3100	245.132	281.111	0.0001
setTask636	3	200	0.3100	199.271	282.023	0.0001
setTask637	3	170	0.3059	5.002.435	48.631	453.447
setTask638	3	110	0.3182	5.002.182	518.056	234.144
setTask639	3	120	0.3250	5.002.531	7.5	422.188
setTask640	3	88	0.3182	5.001.914	397.807	148.804
setTask641	3	200	0.3450	145.815	451.645	0.0001
setTask642	3	144	0.3194	5.002.335	629.592	433.388
setTask643	3	200	0.3600	5.002.914	874.041	285.726
setTask644	3	52	0.3077	12.452	0.978981	0.0001
setTask645	3	200	0.3050	5.002.554	367.679	269.509
setTask646	3	200	0.3500	184.227	290.351	0.0001
setTask647	3	200	0.3200	5.002.409	23.431	613.879
setTask648	3	200	0.3200	209.940	510.175	0.0001
setTask649	3	126	0.3095	5.002.752	614.286	470.087
setTask650	3	90	0.3222	5.002.043	391.964	279.917
setTask651	3	200	0.3400	5.003.226	76.234	28.662
setTask652	3	200	0.3600	139.660	56.478	0.0001
setTask653	3	200	0.3150	5.002.826	359.431	237.566
setTask654	3	150	0.3267	5.002.742	816.149	594.517
setTask655	3	56	0.3214	125.742	477.778	0.0001
setTask656	3	200	0.3350	5.002.463	48.518	676.422
setTask657	3	200	0.3500	5.002.893	101.415	287.241
setTask658	3	200	0.3250	109.843	323.834	0.0001
setTask659	3	200	0.3250	5.002.449	485.542	155.971
setTask660	3	200	0.3450	119.205	451.552	0.0001
setTask661	3	200	0.3700	5.002.713	773.018	282.795
setTask662	3	200	0.3400	5.003.294	109.942	856.048
setTask663	3	200	0.3300	5.003.177	866.658	288.075
setTask664	3	200	0.3550	5.002.776	101.811	28.616
setTask665	3	200	0.3450	145.900	256.744	0.0001
setTask666	3	168	0.3095	5.002.276	508.235	366.007
setTask667	3	200	0.3200	824.682	218.566	0.0001
setTask668	3	200	0.3600	5.002.525	768.726	284.317
setTask669	3	124	0.3387	5.002.762	105.857	549.127
setTask670	3	200	0.3150	5.002.760	367.137	229.394
setTask671	3	200	0.3400	364.600	25.669	0.0001
setTask672	3	200	0.3200	108.954	47.498	0.0001
setTask673	3	126	0.3095	5.002.353	685.345	50.814

setTask674	3	120	0.3167	5.002.403	454.048	216.808
setTask675	3	180	0.3056	129.320	267.736	0.0001
setTask676	3	180	0.3278	5.003.235	106.113	69.469
setTask677	3	184	0.3043	4.019.174	289.725	0.0001
setTask678	3	200	0.3500	244.037	280.514	0.0001
setTask679	3	162	0.3025	1.552.791	205.793	0.0001
setTask680	3	120	0.3083	415.976	247.619	0.0001
setTask681	3	96	0.3021	56.016	168.773	0.0001
setTask682	3	110	0.3364	5.002.172	778.571	441.951
setTask683	3	200	0.3700	285.896	256.161	0.0001
setTask684	3	200	0.3150	5.002.643	865.678	708.711
setTask685	3	180	0.3111	5.003.320	563.333	483.548
setTask686	3	200	0.3050	5.002.873	801.042	768.921
setTask687	3	200	0.3450	5.002.897	173.672	907.953
setTask688	3	200	0.3700	194.466	303.616	0.0001
setTask689	3	135	0.3185	5.002.602	739.615	251.657
setTask690	3	200	0.3550	129.367	395.412	0.0001
setTask691	3	168	0.3036	5.003.086	372.742	290.184
setTask692	3	200	0.3150	5.003.864	582.619	228.338
setTask693	3	90	0.3111	5.003.078	553.896	122.655
setTask694	3	200	0.3250	5.004.534	857.487	69.663
setTask695	3	200	0.3450	295.797	518.229	0.0001
setTask696	3	200	0.3800	5.003.818	170.828	918.668
setTask697	3	200	0.3200	312.681	406.384	0.00421663
setTask698	3	105	0.3143	5.003.729	481.579	309.462
setTask699	3	200	0.3350	5.004.688	168.912	928.243
setTask700	3	144	0.4236	5.005.290	183.333	601.709
setTask701	3	200	0.4500	669.282	194.539	0.0001
setTask702	3	200	0.4450	5.002.759	135.102	217.983
setTask703	3	200	0.4450	268.658	488.126	0.0001
setTask704	3	165	0.4182	5.002.592	520.979	159.803
setTask705	3	180	0.4056	5.002.832	45.202	466.839
setTask706	3	200	0.4900	5.003.130	33.447	858.455
setTask707	3	60	0.4333	1.079.000	6.6	0.0001
setTask708	3	200	0.4350	5.002.575	163.752	787.859
setTask709	3	200	0.4050	5.002.646	143.278	402.555
setTask710	3	200	0.4850	5.002.912	334.219	859.091
setTask711	3	200	0.4550	5.002.666	116.414	314.676
setTask712	3	200	0.4300	252.028	420.723	0.0001
setTask713	3	105	0.4667	0.5925	21.649	7,90E+00
setTask714	3	160	0.4125	5.002.638	475.618	20.589
setTask715	3	105	0.4095	1.832.250	32.753	0.0001
setTask716	3	200	0.4850	5.002.712	375.741	886.068
setTask717	3	200	0.4550	5.002.650	201.575	464.323
setTask718	3	200	0.4300	227.787	3.907	0.0001

setTask719	3	200	0.4200	5.002.591	836.469	410.188
setTask720	3	60	0.4167	17.009	24.898	0.0001
setTask721	3	132	0.4167	5.002.067	471.146	199.729
setTask722	3	200	0.4500	5.002.569	195.602	826.539
setTask723	3	200	0.4400	161.165	37.912	0.0001
setTask724	3	200	0.4900	364.474	472.072	0.0001
setTask725	3	200	0.4700	5.002.484	400.645	870.839
setTask726	3	140	0.4214	5.002.316	229.286	58.595
setTask727	3	96	0.4688	176.327	200.492	0.0001
setTask728	3	200	0.5400	0.7551	100.191	9,66E+00
setTask729	3	54	0.4259	43.079	30.125	0.0001
setTask730	3	156	0.4167	5.002.244	500.588	375.701
setTask731	3	200	0.4200	5.002.502	569.375	167.523
setTask732	3	200	0.4450	5.002.480	115.828	217.941
setTask733	3	162	0.4074	5.002.061	262.572	688.894
setTask734	3	200	0.4800	5.002.684	203.441	460.153
setTask735	3	52	0.4038	11.070	147.359	0.0001
setTask736	3	200	0.4700	5.002.839	912.379	21.532
setTask737	3	200	0.4250	5.002.545	157.328	309.117
setTask738	3	114	0.4035	5.002.037	756.004	414.763
setTask739	3	200	0.4750	5.002.648	400.847	870.404
setTask740	3	117	0.4359	5.002.059	9.7	196.777
setTask741	3	63	0.4286	147.046	5.7	0.0001
setTask742	3	200	0.4800	5.002.377	135.847	216.845
setTask743	3	200	0.4550	5.002.891	102.168	216.278
setTask744	3	200	0.4500	5.002.415	135.731	217.017
setTask745	3	140	0.4571	5.002.289	421.429	435.692
setTask746	3	80	0.4125	5.001.791	790.095	305.663
setTask747	3	200	0.4700	352.306	268.703	0.0001
setTask748	3	154	0.4156	5.002.002	83.875	416.073
setTask749	3	60	0.4500	5.001.811	711.429	198.264
setTask750	3	138	0.4275	5.002.082	667.952	431.253
setTask751	3	200	0.4150	5.002.368	535.579	212.633
setTask752	3	160	0.4062	5.002.586	663.326	190.077
setTask753	3	114	0.4035	5.002.130	77.119	345.439
setTask754	3	200	0.4600	341.671	268.719	0.0001
setTask755	3	144	0.4028	5.002.132	47.723	985.779
setTask756	3	200	0.4450	5.002.334	544.133	85.166
setTask757	3	200	0.5600	0.5911	100.208	2,75E+00
setTask758	3	60	0.4333	42.215	908.824	0.0001
setTask759	3	200	0.4450	5.002.901	955.215	398.503
setTask760	3	84	0.4167	5.001.890	642.353	298.576
setTask761	3	112	0.4107	4.696.853	430.031	0.0001
setTask762	3	70	0.4143	2.117.400	499.167	0.0001
setTask763	3	180	0.4222	5.002.198	127.874	574.793

setTask764	3	200	0.5700	158.569	100.878	0.0001
setTask765	3	152	0.4145	5.002.206	146.619	327.447
setTask766	3	200	0.4100	5.002.733	220.296	596.538
setTask767	3	72	0.4167	75.711	293.733	0.0001
setTask768	3	96	0.4167	291.276	564.459	0.0001
setTask769	3	99	0.4141	527.852	422.281	0.0001
setTask770	3	180	0.4111	5.002.431	536.508	165.976
setTask771	3	200	0.4700	5.002.393	20.299	461.153
setTask772	3	112	0.4375	5.001.927	107.685	342.771
setTask773	3	200	0.4400	5.002.614	467.613	676.986
setTask774	3	200	0.4250	123.610	580.634	0.0001
setTask775	3	200	0.5550	0.5624	100.178	1,21E+00
setTask776	3	156	0.4038	1.166.055	351.568	0.0001
setTask777	3	200	0.4250	5.002.503	214.629	313.291
setTask778	3	200	0.4250	5.002.377	909.617	372.288
setTask779	3	112	0.4196	5.002.090	629.439	215.764
setTask780	3	200	0.4650	5.003.219	136.014	216.588
setTask781	3	60	0.4333	28.878	691.818	0.0001
setTask782	3	200	0.4750	5.002.559	292.273	870.895
setTask783	3	180	0.4111	5.002.280	677.945	21.461
setTask784	3	80	0.4125	64.974	1.949	0.0001
setTask785	3	200	0.4550	5.002.494	160.619	312.221
setTask786	3	112	0.4464	5.002.325	122.917	418.198
setTask787	3	90	0.4222	5.003.860	773.214	220.696
setTask788	3	200	0.4300	5.002.815	684.392	206.479
setTask789	3	120	0.4083	5.002.387	607.778	221.553
setTask790	3	60	0.4167	53.003	421.717	0.0001
setTask791	3	168	0.4048	5.002.311	637.132	125.057
setTask792	3	200	0.4600	5.002.639	190.669	832.103
setTask793	3	200	0.4550	191.956	190.891	0.0001
setTask794	3	200	0.4100	5.002.370	454.747	12.507
setTask795	3	175	0.4229	5.002.797	29.217	577.476
setTask796	3	200	0.4650	202.702	531.147	0.0001
setTask797	3	90	0.4111	3.838.049	247.685	0.0001
setTask798	3	200	0.4450	5.002.655	906.108	216.738
setTask799	3	200	0.4200	616.163	5.083	0.0001
setTask800	3	200	0.6350	5.002.450	106.801	269.633
setTask801	3	168	0.5060	5.002.616	504.618	101.496
setTask802	3	180	0.5056	5.002.736	801.875	246.426
setTask803	3	90	0.5111	90.647	114.909	0.0001
setTask804	3	132	0.5682	5.002.476	333.571	51.25
setTask805	3	78	0.5769	5.002.019	190.333	295.437
setTask806	3	168	0.5060	3.088.146	633.555	0.0001
setTask807	3	129	0.5659	3.238.523	236.132	0.0001
setTask808	3	200	0.5450	5.002.648	144.426	176.671

setTask809	3	140	0.5286	5.002.296	943.215	486.806
setTask810	3	200	0.5350	5.002.706	975.882	237.999
setTask811	3	180	0.5056	5.003.119	665.353	133.214
setTask812	3	90	0.5222	2.769.926	571.667	0.0001
setTask813	3	200	0.5700	5.002.385	145.727	175.181
setTask814	3	156	0.5769	5.002.315	582.778	302.806
setTask815	3	152	0.5132	5.002.406	114.462	282.357
setTask816	3	180	0.5389	575.544	628.986	0.0001
setTask817	3	200	0.5450	329.465	173.087	0.0001
setTask818	3	200	0.5900	25.342	100.344	0.0001
setTask819	3	138	0.5072	5.002.643	47.814	232.745
setTask820	3	144	0.5208	5.003.208	114.305	238.276
setTask821	3	200	0.5550	0.5336	501.947	4,97E+00
setTask822	3	140	0.5071	5.002.194	52.076	186.269
setTask823	3	84	0.5833	171.933	167.552	0.0001
setTask824	3	72	0.5139	5.002.100	639.286	152.392
setTask825	3	112	0.5179	267.768	173.174	0.0001
setTask826	3	168	0.5298	5.003.038	187.895	65.211
setTask827	3	140	0.5643	5.002.240	188.917	491.716
setTask828	3	200	0.5650	5.002.890	273.726	518.125
setTask829	3	110	0.5182	5.002.234	703.472	174.736
setTask830	3	200	0.5550	238.796	202.194	0.0001
setTask831	3	75	0.5600	89.515	148.458	0.0001
setTask832	3	126	0.5159	5.002.683	105.606	349.837
setTask833	3	72	0.5139	146.071	35.375	0.0001
setTask834	3	176	0.5227	5.002.486	106.333	246.401
setTask835	3	189	0.5132	5.002.887	718.713	138.222
setTask836	3	126	0.5952	47.525	637.836	0.0001
setTask837	3	90	0.5111	629.850	2	0.0001
setTask838	3	98	0.5204	2.416.436	763.415	0.0001
setTask839	3	200	0.5650	5.003.201	145.071	224.579
setTask840	3	90	0.5333	5.002.120	62.248	964.657
setTask841	3	105	0.5048	5.002.102	499.351	538.459
setTask842	3	200	0.5300	5.003.281	955.955	264.383
setTask843	3	60	0.5167	5.001.933	857.895	999.877
setTask844	3	132	0.5530	5.002.386	24.975	517.778
setTask845	3	200	0.5450	349.489	288.068	0.0001
setTask846	3	180	0.5278	4.739.630	244.418	0.0001
setTask847	3	84	0.5357	5.002.079	883.333	309.011
setTask848	3	80	0.5375	5.002.065	81.645	617.776
setTask849	3	168	0.5179	5.002.879	130.952	212.121
setTask850	3	140	0.5214	5.002.490	106.444	244.142
setTask851	3	126	0.5873	5.002.994	28.5	520.991
setTask852	3	200	0.5200	1.845.698	50.582	0.0001
setTask853	3	200	0.5600	5.002.540	127.888	174.695

setTask854	3	140	0.5286	5.002.259	136.759	195.655
setTask855	3	200	0.5700	378.607	335.896	0.0001
setTask856	3	200	0.5150	554.005	75.169	0.0001
setTask857	3	176	0.5057	5.002.477	868.182	163.246
setTask858	3	120	0.5250	5.002.280	137.692	433.071
setTask859	3	84	0.5833	68.290	299.387	0.0001
setTask860	3	192	0.5104	5.002.816	180.993	594.151
setTask861	3	60	0.5167	46.546	263.616	0.0001
setTask862	3	200	0.5350	5.002.637	23.729	430.015
setTask863	3	60	0.5500	3.431.638	7.875	0.0001
setTask864	3	200	0.5850	177.755	100.668	0.0001
setTask865	3	78	0.5256	56.841	588.831	0.0001
setTask866	3	120	0.5083	5.002.158	414.167	394.273
setTask867	3	120	0.5083	5.002.198	403.306	160.542
setTask868	3	200	0.5650	158.986	280.615	0.0001
setTask869	3	200	0.5600	5.002.352	113.624	174.771
setTask870	3	168	0.5119	5.002.221	806.667	114.054
setTask871	3	200	0.5300	5.003.079	93.863	113.476
setTask872	3	120	0.5250	5.002.306	876.786	132.437
setTask873	3	198	0.5051	5.002.318	827.411	125.992
setTask874	3	120	0.5083	518.558	35.515	0.0001
setTask875	3	200	0.5500	5.002.488	113.377	175.128
setTask876	3	156	0.5449	5.002.424	128.272	308.699
setTask877	3	126	0.5079	2.970.155	409.524	0.0001
setTask878	3	132	0.5227	5.001.820	892.174	355.001
setTask879	3	200	0.5200	5.002.446	440.734	758.218
setTask880	3	200	0.5300	5.002.528	125.663	312.439
setTask881	3	112	0.5357	5.002.153	118.556	25.941
setTask882	3	176	0.5227	5.002.421	115.159	31.327
setTask883	3	140	0.5071	5.002.447	204.206	490.983
setTask884	3	200	0.5700	5.002.272	327.436	598.523
setTask885	3	126	0.5317	5.002.072	11.486	245.178
setTask886	3	180	0.5111	5.002.349	946.364	334.274
setTask887	3	180	0.5056	5.002.344	580.641	163.433
setTask888	3	200	0.5350	5.002.930	26.089	505.274
setTask889	3	200	0.5450	5.002.402	112.829	175.933
setTask890	3	56	0.5357	3.709.695	53.013	0.0001
setTask891	3	120	0.5333	5.002.033	102.321	601.411
setTask892	3	126	0.5159	5.002.117	102.756	153.865
setTask893	3	96	0.5208	1.217.736	479.286	0.0001
setTask894	3	176	0.5170	5.002.278	125.775	149.847
setTask895	3	72	0.5278	5.002.579	853.623	266.181
setTask896	3	80	0.5125	4.641.504	310.819	0.0001
setTask897	3	195	0.5282	5.002.775	172.333	255.099
setTask898	3	144	0.5069	5.002.300	64.023	257.845

setTask899	3	168	0.5119	5.002.689	15.3	309.476
setTask900	3	84	0.6429	5.002.079	12.8	174.863
setTask901	3	180	0.6056	5.002.336	345.139	769.325
setTask902	3	56	0.6429	2.412.983	986.667	0.0001
setTask903	3	54	0.6111	219.527	299.185	0.0001
setTask904	3	54	0.6481	683.012	705.455	0.0001
setTask905	3	56	0.6964	1.391.556	141.859	0.0001
setTask906	3	99	0.6465	5.001.946	137.745	625.833
setTask907	3	180	0.6722	5.002.729	42.6	625.493
setTask908	3	72	0.6528	3.417.957	777.803	0.0001
setTask909	3	66	0.6212	362.307	637.821	0.0001
setTask910	3	200	0.6600	0.8388	402.757	5,82E+00
setTask911	3	156	0.6218	5.002.753	247.143	581.821
setTask912	3	84	0.6310	5.002.574	145.577	281.144
setTask913	3	80	0.6500	142.357	104.524	0.0001
setTask914	3	60	0.6167	32.000	388.636	0.0001
setTask915	3	60	0.6333	622.380	850.476	0.0001
setTask916	3	200	0.6450	5.003.553	318.324	759.535
setTask917	3	176	0.6193	5.002.543	128.444	201.792
setTask918	3	200	0.6300	5.002.552	129.776	199.062
setTask919	3	200	0.6300	297.293	108.154	0.0001
setTask920	3	180	0.6500	5.002.679	190.648	679.038
setTask921	3	198	0.6465	5.003.020	281.727	372.719
setTask922	3	140	0.6143	5.002.186	108.385	237.691
setTask923	3	132	0.6136	5.002.197	989.286	167.463
setTask924	3	180	0.6056	5.002.626	768.687	168.818
setTask925	3	168	0.6726	5.002.489	397.143	675.647
setTask926	3	50	0.6200	16.899	311.146	0.0001
setTask927	3	120	0.6167	5.002.116	12.2	189.449
setTask928	3	108	0.6389	622.323	929.229	0.0001
setTask929	3	95	0.6211	5.002.148	123.838	19.059
setTask930	3	90	0.6778	3.572.458	208.095	0.0001
setTask931	3	100	0.6100	520.230	512.778	0.0001
setTask932	3	63	0.6190	535.204	326.352	0.0001
setTask933	3	168	0.6369	5.002.320	13.368	187.141
setTask934	3	132	0.6364	5.002.598	170.175	316.813
setTask935	3	198	0.6364	5.002.408	205.669	351.112
setTask936	3	98	0.6327	5.002.091	116.407	578.995
setTask937	3	189	0.6614	5.002.468	43.413	801.605
setTask938	3	60	0.6167	1.609.545	910.417	0.0001
setTask939	3	192	0.6406	5.002.510	272.444	430.375
setTask940	3	161	0.6584	5.002.725	283.889	262.045
setTask941	3	170	0.6588	5.002.426	249.145	331.639
setTask942	3	189	0.6138	5.002.834	117.929	127.612
setTask943	3	180	0.6278	5.002.632	163.462	448.968

setTask944	3	200	0.6600	5.002.685	45.75	650.448
setTask945	3	200	0.7350	5.002.550	535.556	539.837
setTask946	3	200	0.6900	5.002.669	393.521	422.926
setTask947	3	120	0.6417	5.002.046	112.549	169.631
setTask948	3	200	0.7350	0.3848	116.157	4,89E-11
setTask949	3	60	0.6167	256.672	115.061	0.0001
setTask950	3	180	0.6333	5.002.325	10.023	216.824
setTask951	3	156	0.6346	5.002.481	404.643	596.342
setTask952	3	200	0.6350	5.002.749	201.367	253.459
setTask953	3	180	0.6111	5.002.328	651.471	147.235
setTask954	3	108	0.6296	5.002.166	864.545	257.052
setTask955	3	153	0.6405	5.002.498	128.361	153.878
setTask956	3	168	0.6726	104.952	872.069	0.0001
setTask957	3	50	0.6600	0.4641	258.583	7,88E+00
setTask958	3	180	0.6056	5.002.409	739.744	175.977
setTask959	3	140	0.6214	5.002.097	102.621	100.938
setTask960	3	50	0.6400	21.057	867.647	0.0001
setTask961	3	180	0.6222	5.002.290	187.323	269.173
setTask962	3	180	0.6222	5.002.553	243.636	537.606
setTask963	3	160	0.6312	5.002.385	996.405	20.318
setTask964	3	200	0.6350	5.002.493	118.147	197.848
setTask965	3	198	0.6061	5.002.531	997.222	209.347
setTask966	3	60	0.6500	601.047	121.667	0.0001
setTask967	3	90	0.6222	5.001.923	6.25	911.396
setTask968	3	126	0.6270	5.002.323	886.623	154.315
setTask969	3	168	0.6310	5.002.351	109.451	245.379
setTask970	3	160	0.6188	5.002.286	134.872	295.171
setTask971	3	90	0.6333	5.001.959	75.381	109.382
setTask972	3	180	0.6167	5.002.252	168.174	229.965
setTask973	3	132	0.6439	5.002.212	30.5	485.033
setTask974	3	195	0.6256	5.002.508	26.45	52.086
setTask975	3	126	0.6111	5.003.005	124.703	207.427
setTask976	3	156	0.6474	5.002.518	194.444	284.572
setTask977	3	200	0.6900	5.002.426	18.154	181.385
setTask978	3	132	0.6364	5.002.251	110.212	295.145
setTask979	3	126	0.6508	5.002.644	250.294	248.024
setTask980	3	168	0.6310	5.002.292	124.911	161.867
setTask981	3	120	0.6167	1.281.742	198.051	0.0001
setTask982	3	120	0.6083	5.001.992	105.346	210.446
setTask983	3	170	0.7294	307.570	102.483	0.0001
setTask984	3	200	0.7100	292.474	106.787	0.0001
setTask985	3	200	0.6600	482.064	347.356	0.0001
setTask986	3	140	0.6143	5.002.215	106.806	120.405
setTask987	3	180	0.6944	5.002.544	360.948	728.099
setTask988	3	60	0.6333	80.524	12.25	0.0001

setTask989	3	126	0.6270	5.002.061	975.417	321.374
setTask990	3	200	0.6600	0.6001	402.584	7,81E+00
setTask991	3	60	0.6167	49.537	675.188	0.0001
setTask992	3	90	0.6222	5.002.013	922.857	501.921
setTask993	3	126	0.6111	286.848	233.824	0.0001
setTask994	3	70	0.6143	29.981	702.482	0.0001
setTask995	3	168	0.7024	5.002.550	363.019	350.423
setTask996	3	72	0.6528	5.001.817	117.111	474.769
setTask997	3	60	0.6167	871.680	808.333	0.0001
setTask998	3	150	0.6200	5.002.346	101.863	173.009
setTask999	3	192	0.6094	5.002.620	995.404	160.598
setTask1000	4	200	0.2350	512.282	132.611	0.0001
setTask1001	4	200	0.2500	3.717.717	194.517	0.0001
setTask1002	4	200	0.2350	356.000	158.447	0.0001
setTask1003	4	200	0.2400	167.728	193.781	0.0001
setTask1004	4	200	0.2450	203.487	2.602	0.0001
setTask1005	4	200	0.2650	5.002.629	117.872	596.474
setTask1006	4	200	0.2500	1.046.634	202.403	0.0001
setTask1007	4	200	0.2750	494.877	18.462	0.0001
setTask1008	4	200	0.3050	5.002.645	151.306	128.297
setTask1009	4	200	0.2600	5.002.521	118.215	344.752
setTask1010	4	200	0.2500	882.244	27.767	0.0001
setTask1011	4	200	0.2150	5.002.780	315.108	376.393
setTask1012	4	200	0.2100	203.153	228.985	0.0001
setTask1013	4	200	0.2150	127.207	142.151	0.0001
setTask1014	4	200	0.2550	1.023.977	205.981	0.0001
setTask1015	4	200	0.2450	5.003.099	680.321	824.288
setTask1016	4	200	0.2350	4.345.379	318.487	0.0001
setTask1017	4	200	0.2300	185.969	124.584	0.0001
setTask1018	4	200	0.2500	469.020	162.157	0.0001
setTask1019	4	200	0.2250	341.777	254.392	0.0001
setTask1020	4	200	0.2650	350.867	264.806	0.0001
setTask1021	4	200	0.2750	5.002.794	192.059	137.089
setTask1022	4	200	0.2450	5.002.533	224.127	262.315
setTask1023	4	200	0.2450	5.002.705	10.364	667.151
setTask1024	4	200	0.2850	418.951	202.061	0.0001
setTask1025	4	200	0.2900	2.978.179	183.485	0.0001
setTask1026	4	200	0.2550	525.638	190.614	0.0001
setTask1027	4	200	0.2400	5.002.862	504.753	70.718
setTask1028	4	200	0.2300	325.178	203.875	0.0001
setTask1029	4	200	0.2650	510.951	294.153	0.0001
setTask1030	4	200	0.2300	5.002.983	268.606	713.762
setTask1031	4	200	0.2500	308.201	229.079	0.0001
setTask1032	4	200	0.2400	340.301	161.329	0.0001
setTask1033	4	200	0.3000	5.003.002	102.823	900.894

setTask1034	4	200	0.2700	1.007.733	171.892	0.0001
setTask1035	4	200	0.2750	3.371.644	181.424	0.0001
setTask1036	4	200	0.2600	373.799	198.644	0.0001
setTask1037	4	200	0.2350	217.595	309.312	0.0001
setTask1038	4	200	0.2550	3.308.848	264.319	0.0001
setTask1039	4	200	0.2400	328.022	194.772	0.0001
setTask1040	4	200	0.2600	208.529	137.806	0.0001
setTask1041	4	200	0.2600	341.822	202.061	0.0001
setTask1042	4	200	0.2300	292.524	180.866	0.0001
setTask1043	4	200	0.2500	434.004	173.662	0.0001
setTask1044	4	200	0.2700	5.002.906	135.526	911.177
setTask1045	4	200	0.2700	5.002.663	235.093	210.414
setTask1046	4	200	0.2800	5.002.889	205.367	141.388
setTask1047	4	200	0.2200	220.327	236.283	0.0001
setTask1048	4	200	0.2200	5.002.653	262.621	338.289
setTask1049	4	200	0.2450	290.156	183.397	0.0001
setTask1050	4	200	0.2800	5.002.773	188.522	123.245
setTask1051	4	200	0.2750	5.002.955	216.341	141.649
setTask1052	4	200	0.2450	1.508.605	151.293	0.0001
setTask1053	4	200	0.2800	5.003.223	135.281	912.815
setTask1054	4	200	0.2650	2.341.428	132.993	0.0001
setTask1055	4	200	0.2500	289.439	149.144	0.0001
setTask1056	4	200	0.2650	4.166.617	225.545	0.0001
setTask1057	4	200	0.3100	5.003.086	483.265	398.064
setTask1058	4	200	0.2200	352.412	192.352	0.0001
setTask1059	4	200	0.2650	235.507	308.799	0.0001
setTask1060	4	200	0.2200	4.228.994	102.374	0.0001
setTask1061	4	200	0.2600	572.557	181.814	0.0001
setTask1062	4	200	0.2700	923.135	127.416	0.0001
setTask1063	4	200	0.2100	5.002.628	454.911	767.025
setTask1064	4	200	0.2650	5.002.796	206.774	199.864
setTask1065	4	200	0.2250	305.943	168.537	0.0001
setTask1066	4	200	0.2650	1.837.348	242.298	0.0001
setTask1067	4	200	0.2550	232.254	20.014	0.0001
setTask1068	4	200	0.2550	400.450	239.541	0.0001
setTask1069	4	200	0.2650	239.164	273.005	0.0001
setTask1070	4	200	0.2650	5.002.977	192.023	29.125
setTask1071	4	200	0.2250	211.093	142.455	0.0001
setTask1072	4	200	0.2250	307.092	32.104	0.0001
setTask1073	4	200	0.2450	5.003.186	101.609	911.538
setTask1074	4	200	0.2800	1.747.480	170.032	0.0001
setTask1075	4	200	0.2300	211.094	123.271	0.0001
setTask1076	4	200	0.2600	409.699	191.875	0.0001
setTask1077	4	200	0.2550	522.135	164.897	0.0001
setTask1078	4	200	0.2650	633.258	282.514	0.0001

setTask1079	4	200	0.2550	5.002.585	124.945	129.617
setTask1080	4	200	0.2500	5.002.472	301.774	397.778
setTask1081	4	200	0.2900	5.002.455	12.802	353.198
setTask1082	4	200	0.2550	508.367	188.605	0.0001
setTask1083	4	200	0.2850	5.002.685	13.648	90.488
setTask1084	4	200	0.2250	332.577	139.519	0.0001
setTask1085	4	200	0.3150	5.002.611	136.937	901.894
setTask1086	4	200	0.2650	871.542	286.875	0.0001
setTask1087	4	200	0.2800	296.845	202.616	0.0001
setTask1088	4	200	0.2500	3.548.104	10.712	0.0001
setTask1089	4	200	0.2500	252.582	150.042	0.0001
setTask1090	4	200	0.2850	346.210	202.877	0.0001
setTask1091	4	200	0.2250	208.596	252.956	0.0001
setTask1092	4	200	0.2400	226.219	214.139	0.0001
setTask1093	4	200	0.2500	454.315	154.725	0.0001
setTask1094	4	200	0.2500	227.565	247.193	0.0001
setTask1095	4	200	0.2150	5.002.458	443.734	829.537
setTask1096	4	200	0.3050	5.002.634	537.079	402.853
setTask1097	4	200	0.2250	220.772	163.918	0.0001
setTask1098	4	200	0.2900	5.002.773	103.296	896.807
setTask1099	4	200	0.2800	5.002.705	140.871	341.273
setTask1100	4	200	0.3250	2.198.341	263.748	0.0001
setTask1101	4	200	0.3700	5.002.802	171.304	916.188
setTask1102	4	200	0.3150	5.003.175	53.616	624.508
setTask1103	4	200	0.3250	3.528.563	202.152	0.0001
setTask1104	4	200	0.3550	281.566	339.669	0.0001
setTask1105	4	200	0.3450	5.002.642	686.682	28.295
setTask1106	4	200	0.3850	3.860.235	288.079	0.0001
setTask1107	4	200	0.3450	5.002.818	191.779	786.921
setTask1108	4	200	0.3600	5.002.609	628.348	391.689
setTask1109	4	200	0.3400	654.627	262.749	0.00235518
setTask1110	4	200	0.3800	5.002.496	345.264	766.727
setTask1111	4	200	0.3250	602.167	26.288	0.0001
setTask1112	4	200	0.3700	5.002.694	171.842	913.415
setTask1113	4	200	0.3450	206.749	464.224	0.0001
setTask1114	4	200	0.3850	5.002.530	258.636	492.889
setTask1115	4	200	0.3100	5.002.984	34.224	207.125
setTask1116	4	200	0.3500	5.003.111	102.898	433.918
setTask1117	4	200	0.3600	5.002.676	751.228	393.255
setTask1118	4	200	0.3500	1.644.369	374.829	0.0001
setTask1119	4	200	0.3300	422.258	25.214	0.0001
setTask1120	4	200	0.3550	1.350.670	28.909	0.0001
setTask1121	4	200	0.3200	3.177.876	205.059	0.0001
setTask1122	4	200	0.3300	1.626.607	34.648	0.0001
setTask1123	4	200	0.3500	5.002.937	547.414	608.277

setTask1124	4	200	0.3500	5.002.743	150.745	880.303
setTask1125	4	200	0.3300	5.002.754	598.022	624.241
setTask1126	4	200	0.3400	1.967.185	245.712	0.0001
setTask1127	4	200	0.3500	5.002.623	123.457	40.707
setTask1128	4	200	0.3450	5.003.111	42.312	144.889
setTask1129	4	200	0.3700	5.002.836	170.479	919.802
setTask1130	4	200	0.3350	5.002.864	363.102	123.395
setTask1131	4	200	0.3300	5.002.938	763.778	39.271
setTask1132	4	200	0.3300	5.003.393	649.427	63.265
setTask1133	4	200	0.3450	1.765.898	302.528	0.0001
setTask1134	4	200	0.3500	5.002.896	144.573	443.144
setTask1135	4	144	0.3056	5.002.300	420.692	178.339
setTask1136	4	200	0.3600	1.220.317	264.842	0.0001
setTask1137	4	200	0.3800	2.582.036	418.199	0.0001
setTask1138	4	200	0.3350	892.969	241.171	0.0001
setTask1139	4	200	0.3450	5.002.718	816.027	45.706
setTask1140	4	200	0.3450	1.684.771	242.797	0.0001
setTask1141	4	200	0.3250	589.616	304.522	0.0001
setTask1142	4	200	0.3300	435.722	208.743	0.0001
setTask1143	4	98	0.3061	74.790	146.501	0.0001
setTask1144	4	200	0.3150	247.254	384.181	0.0001
setTask1145	4	200	0.3500	5.002.691	647.449	217.525
setTask1146	4	200	0.3200	5.002.846	351.778	242.676
setTask1147	4	200	0.3550	5.003.344	102.921	43.382
setTask1148	4	200	0.3400	5.003.420	873.283	285.959
setTask1149	4	200	0.3150	5.002.693	240.251	868.059
setTask1150	4	200	0.3450	5.002.840	862.535	431.433
setTask1151	4	200	0.3600	5.002.646	330.241	135.535
setTask1152	4	200	0.3600	5.002.525	662.611	385.677
setTask1153	4	200	0.3400	1.334.044	370.728	0.0001
setTask1154	4	200	0.3400	5.002.718	387.743	17.227
setTask1155	4	200	0.3900	498.760	580.114	0.0001
setTask1156	4	200	0.3300	1.347.855	252.682	0.0001
setTask1157	4	200	0.4000	960.360	255.745	0.0001
setTask1158	4	200	0.3600	5.002.556	170.165	921.483
setTask1159	4	200	0.3500	5.002.408	252.387	101.969
setTask1160	4	200	0.3600	5.003.385	101.996	285.655
setTask1161	4	200	0.3350	5.002.657	359.744	302.292
setTask1162	4	200	0.3650	5.002.953	170.554	919.405
setTask1163	4	200	0.3400	2.485.981	238.499	0.0001
setTask1164	4	200	0.3700	770.074	331.048	0.0001
setTask1165	4	200	0.3300	3.436.131	306.069	0.0001
setTask1166	4	200	0.3600	5.002.597	563.638	365.349
setTask1167	4	200	0.3700	205.582	52.627	0.0001
setTask1168	4	200	0.3550	5.003.065	151.526	848.699

setTask1169	4	200	0.3550	5.002.496	514.809	145.076
setTask1170	4	200	0.3450	5.002.692	106.489	876.146
setTask1171	4	200	0.3500	3.781.612	298.994	0.0001
setTask1172	4	200	0.3300	310.680	434.132	0.0001
setTask1173	4	200	0.3300	3.640.928	224.137	0.0001
setTask1174	4	200	0.3300	5.002.633	208.401	11.229
setTask1175	4	200	0.3700	5.002.486	122.637	285.111
setTask1176	4	200	0.3500	481.682	25.583	0.0001
setTask1177	4	180	0.3056	5.003.272	492.276	421.759
setTask1178	4	200	0.3450	5.002.927	170.489	925.357
setTask1179	4	200	0.3500	1.922.016	299.084	0.0001
setTask1180	4	200	0.3450	5.002.973	720.398	684.397
setTask1181	4	200	0.3300	453.851	280.938	0.0001
setTask1182	4	200	0.3550	5.002.677	114.873	839.151
setTask1183	4	180	0.3167	5.002.359	792.857	550.406
setTask1184	4	200	0.3600	5.002.789	875.782	425.056
setTask1185	4	200	0.3800	3.647.316	399.094	0.0001
setTask1186	4	200	0.3500	5.002.865	867.341	429.093
setTask1187	4	200	0.3500	5.002.598	293.496	101.571
setTask1188	4	200	0.3500	224.734	282.078	0.0001
setTask1189	4	200	0.3500	5.003.134	932.522	460.425
setTask1190	4	200	0.3400	744.377	429.261	0.0001
setTask1191	4	200	0.3600	5.002.706	759.892	420.006
setTask1192	4	200	0.3400	5.002.226	452.426	573.397
setTask1193	4	200	0.3350	5.002.740	119.099	823.108
setTask1194	4	132	0.3106	4.242.782	523.285	0.0001
setTask1195	4	200	0.3600	5.002.834	172.441	916.058
setTask1196	4	200	0.3450	5.003.234	439.163	201.247
setTask1197	4	200	0.3800	5.002.877	885.477	282.159
setTask1198	4	200	0.3500	5.002.949	103.406	431.829
setTask1199	4	200	0.3750	5.002.642	69.532	279.559
setTask1200	4	200	0.5850	44.259	100.364	0.0001
setTask1201	4	200	0.4300	5.002.494	675.799	592.643
setTask1202	4	156	0.4167	5.003.029	677.828	560.398
setTask1203	4	200	0.4900	5.003.238	203.012	461.104
setTask1204	4	200	0.4750	5.002.407	51.701	100.616
setTask1205	4	200	0.4250	5.002.705	981.192	269.266
setTask1206	4	200	0.4700	5.002.773	275.547	766.218
setTask1207	4	200	0.4600	5.002.633	408.549	83.293
setTask1208	4	200	0.4650	902.831	27.013	0.0001
setTask1209	4	90	0.4222	5.002.057	103.967	259.145
setTask1210	4	200	0.4900	5.003.181	336.498	659.752
setTask1211	4	200	0.4700	5.002.826	850.101	296.049
setTask1212	4	200	0.4500	5.002.542	95.734	400.857
setTask1213	4	200	0.4200	5.002.757	811.674	219.769

setTask1214	4	200	0.6050	267.199	100.513	0.0001
setTask1215	4	200	0.4250	5.001.419	486.786	195.639
setTask1216	4	154	0.4156	5.003.640	135.987	39.868
setTask1217	4	200	0.4200	5.002.513	321.597	120.413
setTask1218	4	200	0.5000	5.002.905	10.407	212.504
setTask1219	4	200	0.4750	5.002.936	118.593	285.923
setTask1220	4	200	0.4400	2.474.468	475.246	0.0001
setTask1221	4	200	0.4500	5.002.857	211.015	743.099
setTask1222	4	200	0.4350	5.002.706	7.139	328.617
setTask1223	4	200	0.4450	5.003.382	254.961	636.527
setTask1224	4	200	0.4450	0.9146	402.067	4,68E+00
setTask1225	4	168	0.4107	5.002.894	61.076	229.369
setTask1226	4	182	0.4121	5.002.670	699.562	63.698
setTask1227	4	200	0.4550	5.003.187	971.244	396.234
setTask1228	4	200	0.5850	40.942	100.406	0.0001
setTask1229	4	200	0.4850	5.002.593	923.944	21.274
setTask1230	4	200	0.4700	629.918	271.292	0.0001
setTask1231	4	200	0.4550	5.008.195	971.575	524.585
setTask1232	4	200	0.4600	5.006.228	102.239	21.613
setTask1233	4	200	0.4500	5.002.342	584.099	165.187
setTask1234	4	200	0.4650	5.003.114	110.075	292.921
setTask1235	4	200	0.4550	5.003.467	422.989	974.164
setTask1236	4	200	0.4250	5.003.411	12.748	295.019
setTask1237	4	200	0.4150	5.002.748	388.296	278.367
setTask1238	4	200	0.4650	5.002.914	202.765	461.651
setTask1239	4	200	0.4250	5.002.594	748.832	116.676
setTask1240	4	200	0.4650	5.003.296	15.312	29.473
setTask1241	4	200	0.4550	2.275.759	543.606	0.0001
setTask1242	4	200	0.4450	5.002.676	187.595	423.404
setTask1243	4	200	0.4700	238.388	191.431	0.0001
setTask1244	4	200	0.4800	5.002.622	202.711	461.773
setTask1245	4	200	0.4250	5.002.706	262.937	656.114
setTask1246	4	200	0.4600	3.899.685	469.663	0.0001
setTask1247	4	200	0.5750	55.937	100.384	0.0001
setTask1248	4	200	0.4650	5.007.243	171.361	453.124
setTask1249	4	200	0.4550	5.004.658	942.267	522.091
setTask1250	4	200	0.4450	5.002.918	401.185	635.166
setTask1251	4	200	0.4450	5.003.492	190.338	856.662
setTask1252	4	200	0.5000	962.560	270.039	0.0001
setTask1253	4	200	0.4300	5.002.608	525.405	234.382
setTask1254	4	200	0.4650	5.001.343	12.873	292.254
setTask1255	4	200	0.4200	5.005.958	334.147	664.323
setTask1256	4	200	0.4600	5.002.648	129.173	291.283
setTask1257	4	200	0.4450	1.095.075	620.838	0.0001
setTask1258	4	200	0.4200	5.002.775	102.135	333.866

setTask1259	4	200	0.4550	5.002.983	527.196	822.672
setTask1260	4	168	0.4048	5.002.209	510.216	14.712
setTask1261	4	200	0.4250	5.002.850	376.249	786.212
setTask1262	4	200	0.4250	5.002.595	560.527	228.116
setTask1263	4	200	0.4400	5.002.956	112.467	345.933
setTask1264	4	200	0.4750	5.002.621	500.798	976.948
setTask1265	4	200	0.5150	5.002.815	204.835	457.087
setTask1266	4	200	0.4600	5.002.596	202.472	462.305
setTask1267	4	200	0.4950	1.726.291	271.165	0.0001
setTask1268	4	132	0.4091	5.002.357	50.055	224.932
setTask1269	4	168	0.4048	5.002.367	516.884	192.859
setTask1270	4	200	0.4700	3.319.854	595.257	0.0001
setTask1271	4	200	0.4400	5.002.578	736.623	154.047
setTask1272	4	200	0.4450	5.002.678	525.794	22.225
setTask1273	4	200	0.4300	5.003.027	128.326	293.138
setTask1274	4	200	0.4750	5.002.727	222.638	590.365
setTask1275	4	200	0.5000	5.002.623	930.163	211.387
setTask1276	4	200	0.4600	5.002.761	128.199	293.423
setTask1277	4	200	0.4250	5.002.694	546.339	162.021
setTask1278	4	200	0.4950	5.002.897	10.394	212.756
setTask1279	4	200	0.4500	826.494	503.239	0.0001
setTask1280	4	200	0.4500	5.002.733	209.907	703.834
setTask1281	4	200	0.4850	5.002.740	111.739	288.703
setTask1282	4	200	0.4700	5.002.633	124.418	404.151
setTask1283	4	180	0.4111	5.002.707	44.799	397.746
setTask1284	4	200	0.4350	5.002.603	176.992	890.607
setTask1285	4	190	0.4158	5.002.657	761.649	449.891
setTask1286	4	200	0.4350	5.002.580	793.894	260.727
setTask1287	4	200	0.4350	5.002.580	351.398	115.741
setTask1288	4	200	0.4750	5.002.599	48.559	714.944
setTask1289	4	200	0.4700	5.002.647	629.173	18.674
setTask1290	4	200	0.4600	5.003.039	101.291	249.961
setTask1291	4	200	0.6200	714.581	100.559	0.0001
setTask1292	4	80	0.4125	5.002.080	415.983	380.112
setTask1293	4	200	0.4550	5.002.648	853.956	26.5
setTask1294	4	200	0.5850	47.069	100.411	0.0001
setTask1295	4	200	0.4250	5.002.692	114.903	283.375
setTask1296	4	200	0.4500	5.002.676	849.113	266.652
setTask1297	4	200	0.4600	5.002.873	202.079	463.185
setTask1298	4	180	0.4111	5.002.974	920.554	314.357
setTask1299	4	200	0.4700	5.002.684	756.921	488.143
setTask1300	4	200	0.6100	5.002.854	340.622	465.275
setTask1301	4	96	0.5208	5.002.264	574.808	254.996
setTask1302	4	200	0.6250	219.480	101.575	0.0001
setTask1303	4	200	0.5350	5.002.798	318.505	69.891

setTask1304	4	200	0.7150	322.268	102.539	0.0001
setTask1305	4	200	0.5500	5.002.655	698.205	992.061
setTask1306	4	200	0.5150	5.002.966	833.735	14.048
setTask1307	4	200	0.6800	286.495	103.253	0.0001
setTask1308	4	200	0.5300	5.002.497	105.281	21.781
setTask1309	4	200	0.5550	5.002.892	55.568	921.349
setTask1310	4	200	0.5800	5.002.975	129.861	172.188
setTask1311	4	200	0.5450	5.002.826	119.068	331.882
setTask1312	4	200	0.5350	5.002.648	739.294	136.146
setTask1313	4	200	0.5650	5.002.657	201.918	580.058
setTask1314	4	180	0.5167	5.002.661	103.173	519.927
setTask1315	4	200	0.5600	5.002.801	249.769	60.654
setTask1316	4	200	0.5550	5.002.894	114.656	117.474
setTask1317	4	200	0.5550	5.002.658	22.316	346.923
setTask1318	4	180	0.5056	5.002.519	527.652	23.639
setTask1319	4	200	0.5750	3.014.919	323.804	0.0001
setTask1320	4	126	0.5079	5.002.185	427.863	181.463
setTask1321	4	120	0.5250	5.001.882	106.763	256.747
setTask1322	4	200	0.5350	5.002.496	414.312	916.962
setTask1323	4	200	0.5400	5.002.513	576.193	129.981
setTask1324	4	168	0.5060	5.002.665	974.782	351.925
setTask1325	4	200	0.5800	5.003.205	58.663	682.214
setTask1326	4	200	0.5100	5.002.486	810.345	118.131
setTask1327	4	200	0.6150	144.341	100.621	0.0001
setTask1328	4	200	0.5650	5.002.807	296.394	669.877
setTask1329	4	200	0.5200	5.002.497	970.016	164.814
setTask1330	4	144	0.5139	5.002.516	12.2	284.896
setTask1331	4	200	0.6250	698.743	505.781	0.0001
setTask1332	4	200	0.5350	5.002.662	118.169	27.876
setTask1333	4	200	0.5650	5.002.480	325.122	489.917
setTask1334	4	200	0.5400	5.002.579	171.738	272.051
setTask1335	4	120	0.5250	5.002.667	191.667	405.155
setTask1336	4	200	0.5750	51.863	502.668	0.0001
setTask1337	4	200	0.5100	5.002.964	526.635	869.869
setTask1338	4	84	0.5119	283.527	259.106	0.0001
setTask1339	4	200	0.5950	74.201	100.413	0.0001
setTask1340	4	200	0.5850	52.019	203.985	0.0001
setTask1341	4	200	0.5200	5.003.959	104.108	313.559
setTask1342	4	200	0.5650	5.027.491	574.945	776.938
setTask1343	4	200	0.5900	473.483	338.227	0.0001
setTask1344	4	200	0.5600	5.002.759	585.611	683.383
setTask1345	4	200	0.5600	5.003.278	293.578	673.149
setTask1346	4	180	0.5278	5.002.819	247.076	294.107
setTask1347	4	200	0.5250	5.002.661	696.818	365.255
setTask1348	4	200	0.5550	5.002.653	762.902	130.552

setTask1349	4	200	0.5550	40.615	253.142	0.0001
setTask1350	4	200	0.5050	5.002.736	102.991	389.772
setTask1351	4	140	0.5071	5.002.496	494.534	142.632
setTask1352	4	200	0.6550	156.213	101.313	0.0001
setTask1353	4	200	0.5800	59.361	100.408	0.0001
setTask1354	4	200	0.5750	5.002.823	402.709	705.722
setTask1355	4	200	0.5600	5.002.967	583.916	805.863
setTask1356	4	200	0.5350	5.002.659	992.987	238.938
setTask1357	4	180	0.5167	5.002.669	896.003	219.669
setTask1358	4	200	0.5550	5.002.735	113.265	175.291
setTask1359	4	200	0.5800	5.003.140	146.953	221.822
setTask1360	4	132	0.5152	5.002.343	593.025	122.967
setTask1361	4	200	0.5650	5.002.959	170.295	223.251
setTask1362	4	200	0.5300	5.003.437	146.247	24.572
setTask1363	4	180	0.5444	5.002.490	189.338	698.688
setTask1364	4	132	0.5076	4.031.400	71.685	0.0001
setTask1365	4	180	0.5111	5.002.651	959.914	32.029
setTask1366	4	200	0.5750	5.003.277	361.326	747.843
setTask1367	4	130	0.5077	5.002.182	37.995	157.323
setTask1368	4	180	0.5389	5.002.643	232.786	620.373
setTask1369	4	200	0.5300	5.002.579	498.423	868.747
setTask1370	4	200	0.5750	43.941	100.319	0.0001
setTask1371	4	180	0.5056	5.002.561	451.602	278.949
setTask1372	4	200	0.5800	5.002.509	170.903	222.494
setTask1373	4	154	0.5195	5.002.829	179.752	380.716
setTask1374	4	200	0.5400	5.002.624	894.442	124.898
setTask1375	4	156	0.5321	5.002.351	278.833	584.623
setTask1376	4	200	0.5600	5.002.985	477.363	457.961
setTask1377	4	200	0.5300	5.002.579	647.419	962.286
setTask1378	4	200	0.6800	388.659	110.244	0.0001
setTask1379	4	120	0.5083	5.002.354	474.561	25.341
setTask1380	4	200	0.5700	45.302	253.481	0.0001
setTask1381	4	168	0.5060	5.002.555	852.919	425.839
setTask1382	4	200	0.5500	5.002.453	166.413	354.205
setTask1383	4	200	0.5200	5.002.522	105.952	210.163
setTask1384	4	200	0.5150	5.003.268	544.534	814.788
setTask1385	4	200	0.5950	1.973.444	342.028	0.0001
setTask1386	4	200	0.5550	5.003.444	158.344	622.139
setTask1387	4	200	0.5600	5.002.492	652.661	8.504
setTask1388	4	200	0.5900	452.550	426.167	0.0001
setTask1389	4	200	0.5400	5.003.128	70.057	793.334
setTask1390	4	144	0.5069	5.002.267	600.165	346.186
setTask1391	4	123	0.5041	5.002.330	391.944	307.448
setTask1392	4	200	0.5300	5.003.119	572.605	151.301
setTask1393	4	200	0.5400	5.002.526	200.388	804.329

setTask1394	4	100	0.5400	5.002.476	135.417	350.338
setTask1395	4	168	0.5119	5.002.805	938.636	507.827
setTask1396	4	144	0.5417	5.002.736	159.598	279.466
setTask1397	4	200	0.5200	5.002.665	105.616	210.578
setTask1398	4	200	0.5650	5.002.658	167.465	756.567
setTask1399	4	200	0.5600	5.002.812	359.459	751.677
setTask1400	4	70	0.6286	5.001.861	77.316	131.945
setTask1401	4	180	0.6167	5.002.809	199.294	533.073
setTask1402	4	200	0.6850	5.003.048	164.473	217.567
setTask1403	4	200	0.6650	5.002.828	287.053	606.958
setTask1404	4	88	0.6364	5.002.036	854.129	139.764
setTask1405	4	200	0.6450	5.002.635	156.301	838.724
setTask1406	4	112	0.6339	5.002.507	115.774	412.195
setTask1407	4	120	0.6083	5.002.191	200.111	438.029
setTask1408	4	200	0.7750	248.379	103.008	0.0001
setTask1409	4	200	0.6100	5.003.713	885.167	112.282
setTask1410	4	140	0.6214	5.002.546	327.407	545.887
setTask1411	4	84	0.6310	2.583.805	150.579	0.0001
setTask1412	4	180	0.6167	5.002.745	117.993	264.044
setTask1413	4	200	0.6850	5.002.457	384.908	397.002
setTask1414	4	120	0.6250	5.002.710	107.273	231.355
setTask1415	4	200	0.6250	5.002.575	240.001	682.746
setTask1416	4	170	0.6353	5.002.917	345.667	487.519
setTask1417	4	200	0.6750	132.376	521.402	0.0001
setTask1418	4	140	0.6214	5.002.427	273.154	560.387
setTask1419	4	98	0.6224	5.003.529	107.255	170.483
setTask1420	4	180	0.6111	5.003.238	735.287	164.322
setTask1421	4	200	0.6500	320.015	230.169	0.0001
setTask1422	4	84	0.6190	5.003.091	658.775	8.5
setTask1423	4	192	0.6198	5.002.990	126.698	541.217
setTask1424	4	200	0.6850	5.003.265	141.931	182.612
setTask1425	4	140	0.6429	5.002.735	254.545	515.766
setTask1426	4	200	0.7050	5.003.374	397.661	680.425
setTask1427	4	200	0.6850	5.002.674	50.242	57.483
setTask1428	4	72	0.6528	5.002.093	128.366	146.608
setTask1429	4	192	0.6094	5.002.832	428.006	649.962
setTask1430	4	130	0.6385	5.002.503	184.435	367.872
setTask1431	4	100	0.6100	5.002.155	520.238	668.777
setTask1432	4	200	0.7300	5.002.622	376.418	434.239
setTask1433	4	200	0.6450	5.002.857	141.438	370.976
setTask1434	4	144	0.6250	5.002.526	196.347	264.406
setTask1435	4	200	0.6950	85.232	206.138	0.0001
setTask1436	4	200	0.6500	5.002.620	205.481	315.317
setTask1437	4	200	0.6250	5.002.851	981.169	999.102
setTask1438	4	200	0.6300	5.002.628	10.981	24.843

setTask1439	4	56	0.6250	5.001.783	842.143	513.349
setTask1440	4	200	0.6600	5.005.542	232.279	55.047
setTask1441	4	200	0.6700	5.003.147	381.456	471.303
setTask1442	4	200	0.6300	5.005.460	140.143	225.924
setTask1443	4	200	0.6600	5.003.244	319.965	385.119
setTask1444	4	84	0.6310	5.001.995	677.412	78.924
setTask1445	4	150	0.6133	5.002.058	131.442	374.275
setTask1446	4	180	0.6389	5.002.887	21.85	442.921
setTask1447	4	200	0.6950	5.002.977	462.407	430.973
setTask1448	4	200	0.6350	5.003.366	209.078	333.131
setTask1449	4	200	0.7150	1.818.860	678.241	0.0001
setTask1450	4	84	0.6190	137.468	125.936	0.0001
setTask1451	4	112	0.6339	5.002.039	153.409	256.699
setTask1452	4	200	0.6800	5.003.054	16.289	207.378
setTask1453	4	200	0.6450	5.002.653	36.131	512.382
setTask1454	4	200	0.6350	5.002.806	193.838	364.442
setTask1455	4	200	0.6600	5.003.128	283.777	36.408
setTask1456	4	200	0.6650	5.002.661	111.534	106.997
setTask1457	4	200	0.6950	5.002.806	42.047	608.413
setTask1458	4	130	0.6308	5.002.273	126.155	360.304
setTask1459	4	200	0.6700	5.003.137	73.571	610.564
setTask1460	4	160	0.6187	5.002.513	133.829	214.057
setTask1461	4	200	0.7050	5.002.497	587.083	625.483
setTask1462	4	144	0.6319	5.002.215	149.122	232.718
setTask1463	4	144	0.6319	5.002.322	111.426	370.394
setTask1464	4	200	0.6800	5.002.742	162.707	276.426
setTask1465	4	200	0.7750	5.003.278	110.577	200.036
setTask1466	4	200	0.6400	5.002.493	408.564	481.598
setTask1467	4	200	0.6050	5.002.967	138.006	171.062
setTask1468	4	144	0.6181	5.002.196	645.826	232.874
setTask1469	4	168	0.6131	5.002.482	737.841	353.041
setTask1470	4	120	0.6167	5.002.898	128.259	313.238
setTask1471	4	200	0.7550	5.002.648	423.619	439.477
setTask1472	4	112	0.6250	5.002.201	751.669	11.734
setTask1473	4	190	0.6579	5.002.488	468.333	50.806
setTask1474	4	200	0.6850	3.335.549	310.467	0.0001
setTask1475	4	200	0.6950	1.430.136	178.406	0.0001
setTask1476	4	200	0.6550	5.003.125	748.834	107.961
setTask1477	4	200	0.7950	241.662	106.185	0.0001
setTask1478	4	200	0.6250	5.003.366	236.181	694.646
setTask1479	4	180	0.6167	5.002.970	155.125	297.857
setTask1480	4	200	0.6300	5.003.296	108.625	140.055
setTask1481	4	200	0.7000	5.002.672	167.605	229.255
setTask1482	4	200	0.7700	367.570	113.871	0.0001
setTask1483	4	165	0.6182	5.002.822	179.618	550.518

setTask1484	4	200	0.6600	373.819	103.583	0.0001
setTask1485	4	112	0.6250	5.002.191	185.171	24.912
setTask1486	4	88	0.6364	5.002.511	145.848	266.315
setTask1487	4	56	0.6250	5.001.960	815.889	985.558
setTask1488	4	156	0.6538	5.002.340	345.357	520.589
setTask1489	4	66	0.6818	44.208	272.434	0.0001
setTask1490	4	100	0.6500	2.551.331	163.954	0.0001
setTask1491	4	200	0.6450	5.002.983	185.537	271.633
setTask1492	4	200	0.6600	5.002.741	163.252	274.604
setTask1493	4	112	0.6250	5.002.482	121.818	285.061
setTask1494	4	90	0.6556	5.002.176	268.077	298.969
setTask1495	4	200	0.6500	5.002.648	418.007	661.322
setTask1496	4	200	0.6500	5.003.300	251.456	30.873
setTask1497	4	200	0.6550	5.002.793	784.512	104.699
setTask1498	4	138	0.6232	5.002.273	955.995	32.285
setTask1499	4	180	0.6167	5.002.635	141.242	235.014
setTask1500	5	200	0.2700	2.043.341	251.753	0.0001
setTask1501	5	200	0.2800	5.003.366	103.028	899.115
setTask1502	5	200	0.2850	5.002.498	269.876	608.096
setTask1503	5	200	0.2650	5.003.286	318.615	211.643
setTask1504	5	200	0.2600	5.003.272	452.677	813.345
setTask1505	5	200	0.2600	5.003.899	215.978	20.245
setTask1506	5	200	0.3100	5.002.983	19.286	125.524
setTask1507	5	200	0.2400	5.002.897	118.848	205.341
setTask1508	5	200	0.3200	5.002.495	170.338	471.508
setTask1509	5	200	0.2850	5.002.645	127.278	168.558
setTask1510	5	200	0.2800	5.003.576	289.949	321.912
setTask1511	5	200	0.2450	5.002.667	183.095	165.794
setTask1512	5	200	0.3000	5.002.645	252.937	196.248
setTask1513	5	200	0.2600	5.002.741	16.469	24.869
setTask1514	5	200	0.2450	1.490.843	205.489	0.0001
setTask1515	5	200	0.2800	5.003.210	198.687	197.171
setTask1516	5	200	0.3050	5.024.338	527.724	707.107
setTask1517	5	200	0.2450	5.003.440	105.266	523.765
setTask1518	5	200	0.2200	830.758	154.413	0.0001
setTask1519	5	200	0.2650	1.632.790	183.797	0.0001
setTask1520	5	200	0.2600	5.002.897	256.908	206.465
setTask1521	5	200	0.2550	5.002.827	548.243	805.954
setTask1522	5	200	0.2900	5.002.669	143.244	516.983
setTask1523	5	200	0.2550	5.003.106	115.146	360.037
setTask1524	5	200	0.2300	3.040.542	159.029	0.0001
setTask1525	5	200	0.2550	5.002.651	234.775	198.102
setTask1526	5	200	0.2500	3.598.757	169.056	0.0001
setTask1527	5	200	0.2450	5.002.798	110.079	400.325
setTask1528	5	200	0.2250	5.003.033	530.498	835.322

setTask1529	5	200	0.2550	5.003.014	175.981	179.077
setTask1530	5	200	0.2500	5.003.280	164.292	650.964
setTask1531	5	200	0.2850	5.003.335	719.692	593.621
setTask1532	5	200	0.2650	5.003.081	140.205	149.388
setTask1533	5	200	0.2550	5.002.823	135.865	644.051
setTask1534	5	200	0.2650	5.002.808	290.277	212.882
setTask1535	5	200	0.3100	5.002.742	142.465	304.086
setTask1536	5	200	0.2600	5.002.824	130.293	172.067
setTask1537	5	200	0.2450	5.003.075	163.242	16.727
setTask1538	5	200	0.2550	5.003.790	535.584	824.782
setTask1539	5	200	0.2950	5.003.896	240.824	193.395
setTask1540	5	200	0.2700	5.003.837	604.843	819.492
setTask1541	5	200	0.2500	5.003.422	266.465	372.731
setTask1542	5	200	0.2450	5.003.038	12.385	599.458
setTask1543	5	200	0.2700	5.003.080	165.218	360.669
setTask1544	5	200	0.2650	5.003.001	190.379	298.103
setTask1545	5	200	0.2600	5.003.185	192.904	214.027
setTask1546	5	200	0.2400	5.003.330	143.532	473.329
setTask1547	5	200	0.3000	5.002.899	202.071	391.297
setTask1548	5	200	0.2600	5.003.042	164.501	269.499
setTask1549	5	200	0.2800	5.002.825	242.616	192.026
setTask1550	5	200	0.3150	5.002.939	145.407	131.788
setTask1551	5	200	0.2800	5.003.010	235.178	245.561
setTask1552	5	200	0.2850	5.002.910	192.177	188.672
setTask1553	5	200	0.2500	5.002.676	300.367	712.856
setTask1554	5	200	0.2350	5.002.571	239.502	278.623
setTask1555	5	200	0.2350	5.002.795	132.796	488.546
setTask1556	5	200	0.2900	5.003.039	155.507	558.388
setTask1557	5	200	0.2650	3.980.011	213.615	0.0001
setTask1558	5	200	0.2750	5.003.283	552.871	782.744
setTask1559	5	200	0.2550	5.002.895	117.985	339.321
setTask1560	5	200	0.2600	5.002.879	157.625	158.074
setTask1561	5	200	0.2300	5.002.980	114.963	41.603
setTask1562	5	200	0.2750	5.003.180	233.359	188.096
setTask1563	5	200	0.2650	890.112	190.455	0.0001
setTask1564	5	200	0.2850	5.003.312	14.215	521.834
setTask1565	5	200	0.2850	5.003.283	30.846	200.917
setTask1566	5	200	0.2750	5.003.471	140.091	362.689
setTask1567	5	200	0.2400	5.003.143	121.192	281.966
setTask1568	5	200	0.2700	5.002.655	116.942	602.109
setTask1569	5	200	0.2800	5.003.049	126.183	358.602
setTask1570	5	200	0.3000	5.003.820	144.727	167.534
setTask1571	5	200	0.2750	5.004.669	133.798	575.322
setTask1572	5	200	0.2500	5.007.569	126.575	573.613
setTask1573	5	200	0.2250	5.024.539	168.766	437.627

setTask1574	5	200	0.2900	5.024.344	207.792	122.076
setTask1575	5	200	0.2450	5.003.140	458.926	802.392
setTask1576	5	200	0.2400	5.003.072	107.831	658.581
setTask1577	5	200	0.2400	5.003.779	459.641	80.116
setTask1578	5	200	0.2650	5.003.526	274.418	260.193
setTask1579	5	200	0.2300	3.183.096	202.769	0.0001
setTask1580	5	200	0.2500	5.003.602	127.606	420.503
setTask1581	5	200	0.2750	5.003.878	26.291	201.984
setTask1582	5	200	0.2750	5.005.220	245.476	201.908
setTask1583	5	200	0.2850	5.004.864	153.292	550.712
setTask1584	5	200	0.2800	5.005.601	196.442	128.561
setTask1585	5	200	0.3000	5.006.660	269.759	197.107
setTask1586	5	200	0.2500	5.006.222	349.365	212.282
setTask1587	5	200	0.2850	5.004.716	147.935	516.263
setTask1588	5	200	0.3250	5.005.051	226.447	12.315
setTask1589	5	200	0.2700	5.005.353	412.927	764.842
setTask1590	5	200	0.2400	5.006.496	131.715	583.943
setTask1591	5	200	0.2700	5.005.362	139.571	610.961
setTask1592	5	200	0.2300	5.005.305	116.436	30.551
setTask1593	5	200	0.2750	5.004.185	205.181	191.217
setTask1594	5	200	0.2300	5.005.407	117.527	419.553
setTask1595	5	200	0.2250	5.007.015	123.203	392.571
setTask1596	5	200	0.2650	5.007.009	146.348	404.398
setTask1597	5	200	0.2600	5.006.437	289.353	213.534
setTask1598	5	200	0.2450	5.005.112	120.621	758.257
setTask1599	5	200	0.2950	5.006.880	305.351	202.878
setTask1600	5	200	0.3600	5.005.894	190.515	437.578
setTask1601	5	200	0.3650	5.003.356	521.292	36.974
setTask1602	5	200	0.3600	5.002.648	196.485	182.803
setTask1603	5	200	0.3350	5.003.162	380.321	530.238
setTask1604	5	200	0.3500	5.003.586	157.147	843.868
setTask1605	5	200	0.3500	5.002.984	86.852	428.517
setTask1606	5	200	0.4150	5.002.898	10.688	418.115
setTask1607	5	200	0.3700	5.002.835	664.272	430.884
setTask1608	5	200	0.3450	5.002.986	136.964	655.982
setTask1609	5	200	0.3600	5.002.975	171.921	917.237
setTask1610	5	200	0.4000	5.003.109	156.152	826.271
setTask1611	5	200	0.3650	5.002.938	25.681	928.029
setTask1612	5	200	0.3200	5.003.210	263.999	158.489
setTask1613	5	200	0.3600	5.003.319	236.662	103.966
setTask1614	5	200	0.3350	5.003.266	104.527	886.367
setTask1615	5	200	0.3350	5.002.667	290.664	577.498
setTask1616	5	200	0.3350	5.003.106	232.824	624.027
setTask1617	5	200	0.3450	5.002.993	312.011	208.519
setTask1618	5	200	0.3750	5.003.054	820.849	709.691

setTask1619	5	200	0.3600	1.617.026	258.676	0.0001
setTask1620	5	200	0.3650	5.002.819	469.997	134.945
setTask1621	5	200	0.3600	5.003.366	171.037	916.827
setTask1622	5	200	0.3350	5.002.929	214.891	475.786
setTask1623	5	200	0.3450	5.002.990	548.125	205.215
setTask1624	5	200	0.3150	4.262.050	248.757	0.0001
setTask1625	5	200	0.3600	5.002.954	129.742	595.405
setTask1626	5	200	0.3700	5.002.898	181.041	192.497
setTask1627	5	200	0.3700	5.003.110	25.371	926.983
setTask1628	5	200	0.3550	5.002.821	241.281	889.733
setTask1629	5	200	0.3450	5.002.972	734.614	395.301
setTask1630	5	200	0.3550	5.002.965	560.322	622.414
setTask1631	5	200	0.3450	5.002.973	752.875	423.821
setTask1632	5	200	0.3450	5.002.897	231.542	170.122
setTask1633	5	200	0.3550	5.003.593	755.157	422.564
setTask1634	5	200	0.3450	5.003.128	379.344	133.827
setTask1635	5	200	0.3750	5.002.820	465.634	109.677
setTask1636	5	200	0.3600	5.002.952	254.935	922.624
setTask1637	5	200	0.3400	5.003.133	155.095	84.968
setTask1638	5	200	0.3700	5.002.897	284.414	954.645
setTask1639	5	200	0.3750	5.002.661	180.212	428.638
setTask1640	5	200	0.3600	5.003.604	171.134	916.314
setTask1641	5	200	0.3850	5.002.999	223.323	180.514
setTask1642	5	200	0.3650	5.003.228	354.065	134.391
setTask1643	5	200	0.3250	5.002.662	463.395	184.186
setTask1644	5	200	0.3450	5.002.897	128.679	433.732
setTask1645	5	200	0.4000	5.002.825	332.499	121.506
setTask1646	5	200	0.3700	5.002.809	428.717	205.211
setTask1647	5	200	0.3600	5.002.806	184.194	500.663
setTask1648	5	200	0.3400	5.002.821	239.242	867.794
setTask1649	5	200	0.3450	5.002.974	473.943	157.716
setTask1650	5	200	0.3300	5.002.791	280.439	966.611
setTask1651	5	200	0.3900	5.002.897	888.858	418.944
setTask1652	5	200	0.3550	5.002.980	461.613	504.558
setTask1653	5	200	0.3350	5.003.435	340.922	845.206
setTask1654	5	200	0.3600	5.003.285	129.353	431.527
setTask1655	5	200	0.3950	5.002.963	103.346	282.052
setTask1656	5	200	0.3350	5.003.447	312.968	159.337
setTask1657	5	200	0.3400	5.002.898	356.761	142.138
setTask1658	5	200	0.3800	5.002.965	451.063	215.761
setTask1659	5	200	0.3650	5.002.792	319.519	216.052
setTask1660	5	200	0.3750	5.002.837	710.891	432.167
setTask1661	5	200	0.3750	5.003.280	254.717	923.356
setTask1662	5	200	0.3450	5.002.967	838.413	501.352
setTask1663	5	200	0.4100	5.002.897	328.677	122.821

setTask1664	5	200	0.3500	4.414.196	253.227	0.0001
setTask1665	5	200	0.3250	5.002.822	311.605	128.531
setTask1666	5	200	0.4000	5.003.143	325.231	926.116
setTask1667	5	200	0.3450	5.003.450	227.326	5.627
setTask1668	5	200	0.3200	5.003.218	507.723	585.884
setTask1669	5	200	0.3500	5.003.193	187.312	779.083
setTask1670	5	200	0.3450	5.003.747	138.975	888.806
setTask1671	5	200	0.4000	5.005.211	426.095	847.309
setTask1672	5	200	0.3600	5.005.106	760.325	419.766
setTask1673	5	200	0.3450	5.005.053	606.866	20.447
setTask1674	5	200	0.3950	5.004.043	318.483	126.436
setTask1675	5	200	0.3650	5.005.088	254.812	923.014
setTask1676	5	200	0.3250	5.004.875	530.186	666.725
setTask1677	5	200	0.3650	5.004.544	440.645	926.212
setTask1678	5	200	0.3350	5.005.639	550.539	393.246
setTask1679	5	200	0.3600	5.005.909	428.881	219.141
setTask1680	5	200	0.3400	5.005.327	257.577	906.322
setTask1681	5	200	0.3600	5.003.880	34.995	101.191
setTask1682	5	200	0.3650	5.004.791	915.322	418.789
setTask1683	5	200	0.3450	5.006.699	294.185	151.089
setTask1684	5	200	0.3800	5.005.219	378.483	161.581
setTask1685	5	200	0.3600	5.004.935	965.064	559.319
setTask1686	5	200	0.4200	5.004.554	133.257	419.174
setTask1687	5	200	0.3550	5.004.641	232.393	742.591
setTask1688	5	200	0.4000	5.005.049	285.439	404.246
setTask1689	5	200	0.3650	5.005.357	242.501	202.016
setTask1690	5	200	0.3350	5.004.999	238.498	103.211
setTask1691	5	200	0.3500	5.004.995	200.688	824.104
setTask1692	5	200	0.3800	5.005.074	377.758	197.478
setTask1693	5	200	0.3300	5.005.158	863.845	43.078
setTask1694	5	200	0.4100	5.004.484	172.704	908.077
setTask1695	5	200	0.3750	5.003.933	116.256	364.195
setTask1696	5	200	0.3600	5.004.724	247.909	771.463
setTask1697	5	200	0.3900	5.004.916	15.45	75.501
setTask1698	5	200	0.3850	5.006.565	379.649	125.992
setTask1699	5	200	0.3700	5.004.414	404.551	100.161
setTask1700	5	200	0.4800	5.004.451	29.677	722.681
setTask1701	5	200	0.6350	5.004.869	100.909	0.00740036
setTask1702	5	200	0.4750	5.004.362	477.314	965.875
setTask1703	5	200	0.4700	5.004.182	424.572	730.269
setTask1704	5	200	0.4750	5.004.116	124.051	377.547
setTask1705	5	200	0.4350	5.004.032	502.892	179.108
setTask1706	5	200	0.4200	5.004.507	840.304	360.461
setTask1707	5	200	0.4450	5.004.494	422.221	891.442
setTask1708	5	200	0.4950	5.004.663	469.974	673.888

setTask1709	5	200	0.4750	5.004.175	999.979	26.296
setTask1710	5	200	0.4200	5.004.378	373.037	148.091
setTask1711	5	200	0.5000	246.756	405.682	0.0001
setTask1712	5	200	0.4300	5.004.590	376.861	162.914
setTask1713	5	200	0.4400	5.026.896	159.705	49.571
setTask1714	5	200	0.5000	5.004.999	200.792	807.068
setTask1715	5	200	0.4250	5.004.983	192.318	861.058
setTask1716	5	200	0.5100	5.004.559	195.262	289.112
setTask1717	5	200	0.4400	5.005.120	45.566	907.403
setTask1718	5	200	0.4150	5.005.776	478.309	538.008
setTask1719	5	200	0.4550	5.004.758	707.913	291.639
setTask1720	5	200	0.4600	5.005.299	744.237	491.638
setTask1721	5	200	0.4600	5.004.520	202.378	716.742
setTask1722	5	200	0.4550	5.005.373	955.812	398.674
setTask1723	5	200	0.4850	5.007.371	273.573	750.577
setTask1724	5	200	0.4550	5.006.949	177.584	658.166
setTask1725	5	200	0.4400	5.005.427	113.101	587.795
setTask1726	5	200	0.4850	5.004.729	605.094	993.292
setTask1727	5	200	0.4200	5.003.541	506.334	462.727
setTask1728	5	200	0.4300	5.002.964	487.121	169.867
setTask1729	5	200	0.4600	5.003.084	479.824	123.722
setTask1730	5	200	0.4450	5.003.586	447.078	972.887
setTask1731	5	200	0.5950	96.263	100.574	0.0001
setTask1732	5	200	0.4250	5.002.826	554.405	128.662
setTask1733	5	200	0.4450	5.003.366	529.954	117.485
setTask1734	5	200	0.4900	5.003.730	335.423	856.041
setTask1735	5	200	0.4650	5.003.095	445.912	110.446
setTask1736	5	200	0.4950	5.003.463	130.821	287.734
setTask1737	5	200	0.4700	5.002.990	406.482	135.447
setTask1738	5	200	0.4800	5.003.456	431.427	688.104
setTask1739	5	200	0.4950	5.003.431	166.295	76.528
setTask1740	5	200	0.4700	5.002.997	463.216	117.216
setTask1741	5	200	0.4750	5.003.509	496.123	113.205
setTask1742	5	200	0.5650	5.003.580	20.861	448.995
setTask1743	5	200	0.4650	5.003.421	136.005	216.596
setTask1744	5	200	0.5000	5.005.135	205.423	455.804
setTask1745	5	200	0.4400	5.005.215	424.603	107.471
setTask1746	5	200	0.5250	5.006.903	113.912	283.385
setTask1747	5	200	0.4450	5.006.172	419.007	108.782
setTask1748	5	200	0.5600	132.134	100.356	0.0001
setTask1749	5	200	0.4400	5.005.171	295.487	667.435
setTask1750	5	200	0.4200	5.003.980	879.607	384.637
setTask1751	5	200	0.4400	5.004.418	749.242	569.606
setTask1752	5	200	0.4400	5.003.661	148.229	841.353
setTask1753	5	200	0.4600	5.003.087	499.025	779.498

setTask1754	5	200	0.4750	5.003.281	191.701	326.095
setTask1755	5	200	0.4500	5.003.077	445.217	151.848
setTask1756	5	200	0.4550	5.002.999	915.585	391.801
setTask1757	5	200	0.4300	5.002.969	153.645	402.416
setTask1758	5	200	0.4850	5.002.785	627.807	960.839
setTask1759	5	200	0.5600	5.002.680	987.568	19.967
setTask1760	5	200	0.4400	5.002.864	46.291	160.294
setTask1761	5	200	0.4200	5.003.060	820.843	523.223
setTask1762	5	200	0.4400	5.003.515	526.259	175.667
setTask1763	5	200	0.5050	5.002.819	936.671	20.998
setTask1764	5	200	0.4200	5.002.784	384.046	621.841
setTask1765	5	200	0.4600	2.405.650	264.176	0.0001
setTask1766	5	200	0.4550	5.003.327	139.084	713.958
setTask1767	5	200	0.4550	5.003.182	241.486	792.779
setTask1768	5	200	0.4250	5.002.889	424.529	130.353
setTask1769	5	200	0.4700	5.002.927	637.968	386.194
setTask1770	5	200	0.4400	5.003.030	132.093	774.522
setTask1771	5	200	0.4750	5.002.896	100.423	333.224
setTask1772	5	200	0.4850	5.003.300	217.771	855.183
setTask1773	5	200	0.4500	5.002.968	473.813	972.214
setTask1774	5	200	0.5100	5.002.909	460.338	903.135
setTask1775	5	200	0.4350	5.003.242	595.338	156.957
setTask1776	5	200	0.4750	5.003.139	118.393	790.484
setTask1777	5	200	0.6100	1.824.010	100.592	4,47E+00
setTask1778	5	200	0.4650	5.002.920	605.614	33.639
setTask1779	5	200	0.4300	5.002.919	302.992	881.329
setTask1780	5	200	0.4350	5.003.019	917.012	167.959
setTask1781	5	200	0.4850	5.003.116	375.029	58.465
setTask1782	5	200	0.6200	5.002.948	100.758	0.00625362
setTask1783	5	200	0.4550	5.002.927	514.766	12.728
setTask1784	5	200	0.5300	2.312.827	40.555	0.0001
setTask1785	5	200	0.4900	2.082.046	193.379	0.0001
setTask1786	5	200	0.4500	5.002.923	747.919	260.586
setTask1787	5	200	0.5150	5.003.473	193.942	827.572
setTask1788	5	200	0.4550	5.002.735	520.912	128.044
setTask1789	5	200	0.4550	744.431	262.782	0.0001
setTask1790	5	200	0.4650	5.002.980	151.984	822.258
setTask1791	5	200	0.4500	5.002.851	634.542	112.338
setTask1792	5	200	0.4800	5.002.876	192.025	500.204
setTask1793	5	200	0.4500	5.002.568	516.461	83.412
setTask1794	5	200	0.4800	5.003.189	64.706	100.503
setTask1795	5	200	0.4900	5.003.295	130.909	287.548
setTask1796	5	200	0.4850	5.002.974	155.691	398.329
setTask1797	5	200	0.5150	5.003.094	439.275	335.901
setTask1798	5	200	0.4950	5.003.304	454.885	103.887

setTask1799	5	200	0.4550	5.002.867	444.763	216.902
setTask1800	5	200	0.5950	5.003.614	237.345	52.797
setTask1801	5	200	0.5600	5.002.875	69.397	123.404
setTask1802	5	200	0.5600	5.002.906	897.419	416.358
setTask1803	5	200	0.5500	5.003.491	100.278	349.469
setTask1804	5	200	0.5650	5.003.209	176.393	575.151
setTask1805	5	200	0.5400	5.002.627	888.565	334.397
setTask1806	5	200	0.5650	5.002.792	534.131	987.238
setTask1807	5	200	0.5350	5.002.772	841.458	160.362
setTask1808	5	200	0.6100	5.003.329	293.892	441.404
setTask1809	5	200	0.5350	5.003.056	800.719	138.315
setTask1810	5	200	0.5650	5.003.075	780.187	117.217
setTask1811	5	200	0.5500	5.003.369	210.433	792.216
setTask1812	5	200	0.6250	5.002.992	150.654	169.771
setTask1813	5	200	0.6050	2.259.708	337.469	0.0001
setTask1814	5	200	0.5550	5.003.073	348.496	836.716
setTask1815	5	200	0.5350	5.003.241	167.779	104.236
setTask1816	5	200	0.5600	5.003.157	220.325	441.358
setTask1817	5	200	0.5950	5.003.128	347.811	640.858
setTask1818	5	200	0.5500	5.003.247	175.136	290.699
setTask1819	5	200	0.5800	5.003.094	278.992	422.482
setTask1820	5	200	0.5250	5.002.646	662.405	100.863
setTask1821	5	200	0.5200	5.002.930	732.912	439.043
setTask1822	5	200	0.5750	5.002.671	764.741	949.113
setTask1823	5	200	0.5500	5.003.136	129.041	228.561
setTask1824	5	200	0.5200	5.003.014	127.727	357.292
setTask1825	5	200	0.6000	5.002.960	295.961	32.799
setTask1826	5	200	0.6000	5.002.962	140.187	270.119
setTask1827	5	200	0.5350	5.003.134	576.786	156.676
setTask1828	5	156	0.5192	5.002.583	748.421	497.055
setTask1829	5	200	0.5700	5.003.230	187.061	687.602
setTask1830	5	200	0.5700	5.003.195	239.621	638.425
setTask1831	5	200	0.6850	456.473	112.789	0.0001
setTask1832	5	200	0.6400	5.024.075	100.843	0.00663195
setTask1833	5	200	0.5500	5.003.377	243.032	447.429
setTask1834	5	200	0.6000	5.002.577	653.369	770.213
setTask1835	5	200	0.5200	5.003.012	103.726	310.084
setTask1836	5	200	0.5350	5.002.894	112.764	262.909
setTask1837	5	200	0.5850	5.003.437	14.022	309.547
setTask1838	5	200	0.5550	5.004.322	102.202	38.186
setTask1839	5	200	0.5600	5.003.429	137.859	704.226
setTask1840	5	200	0.5550	5.003.561	15.073	646.428
setTask1841	5	200	0.5150	5.003.156	14.9	495.772
setTask1842	5	200	0.5450	5.002.634	506.303	829.207
setTask1843	5	200	0.5850	5.003.426	156.539	209.589

setTask1844	5	200	0.5250	5.003.038	101.005	324.847
setTask1845	5	200	0.5550	5.002.989	968.527	11.461
setTask1846	5	120	0.5250	5.002.582	909.782	310.586
setTask1847	5	200	0.6000	5.002.988	161.236	271.113
setTask1848	5	200	0.5600	5.003.557	141.895	257.369
setTask1849	5	200	0.5600	5.004.089	264.367	750.952
setTask1850	5	200	0.5650	5.003.985	757.026	322.776
setTask1851	5	200	0.5800	5.003.870	75.458	640.554
setTask1852	5	200	0.5850	5.003.751	754.761	639.726
setTask1853	5	200	0.5550	5.003.452	598.223	788.816
setTask1854	5	200	0.5150	5.003.776	356.839	788.558
setTask1855	5	200	0.5550	5.004.050	846.285	42.642
setTask1856	5	200	0.5350	5.003.578	198.258	294.071
setTask1857	5	200	0.5900	5.003.257	172.122	585.257
setTask1858	5	200	0.5550	5.002.974	231.186	43.36
setTask1859	5	200	0.5550	5.003.472	551.202	959.512
setTask1860	5	200	0.5700	5.005.243	199.151	80.461
setTask1861	5	200	0.5550	5.005.581	311.592	618.237
setTask1862	5	200	0.5600	5.005.252	732.574	976.207
setTask1863	5	200	0.5950	5.004.408	277.329	691.612
setTask1864	5	200	0.5900	5.005.395	141.298	453.356
setTask1865	5	200	0.5250	5.004.131	785.744	128.463
setTask1866	5	200	0.5250	5.004.419	889.021	318.248
setTask1867	5	200	0.5400	5.006.343	13.85	248.699
setTask1868	5	200	0.5650	5.005.310	113.258	346.128
setTask1869	5	200	0.6950	595.413	102.32	0.0001
setTask1870	5	200	0.6050	5.006.318	339.017	467.429
setTask1871	5	200	0.5700	5.006.200	615.486	780.065
setTask1872	5	200	0.5550	5.005.481	292.112	452.248
setTask1873	5	200	0.6450	5.007.005	268.799	497.982
setTask1874	5	200	0.5400	5.006.414	54.688	811.683
setTask1875	5	200	0.5650	5.006.329	276.204	452.433
setTask1876	5	200	0.5700	5.006.116	286.019	448.422
setTask1877	5	200	0.5800	5.006.413	481.719	629.256
setTask1878	5	200	0.5300	5.005.300	101.361	334.335
setTask1879	5	200	0.5200	5.004.045	728.764	126.897
setTask1880	5	200	0.5350	5.004.162	754.103	897.351
setTask1881	5	200	0.5400	5.004.669	573.956	675.489
setTask1882	5	200	0.6000	5.005.497	241.147	256.527
setTask1883	5	200	0.6600	5.005.665	512.438	0.0145001
setTask1884	5	200	0.5850	5.005.608	505.265	636.959
setTask1885	5	200	0.5550	5.005.369	414.478	399.432
setTask1886	5	200	0.6000	5.004.955	304.551	643.909
setTask1887	5	200	0.5400	5.003.189	826.531	152.188
setTask1888	5	200	0.5700	5.003.236	32.757	838.633

setTask1889	5	200	0.5650	5.003.021	357.294	610.282
setTask1890	5	200	0.6350	5.002.980	174.745	217.817
setTask1891	5	200	0.5550	5.003.329	123.179	132.825
setTask1892	5	200	0.5450	5.003.433	126.989	320.234
setTask1893	5	200	0.6150	5.003.341	340.853	464.964
setTask1894	5	200	0.5800	5.003.164	237.306	62.372
setTask1895	5	200	0.6400	5.004.431	100.898	0.00734973
setTask1896	5	200	0.5950	5.002.828	595.682	753.318
setTask1897	5	200	0.6100	5.004.201	506.016	0.00597802
setTask1898	5	200	0.5250	5.003.683	956.646	36.862
setTask1899	5	200	0.5950	5.002.975	380.117	726.243
setTask1900	5	90	0.6111	5.002.220	55.898	788.776
setTask1901	5	200	0.7300	5.003.363	30.891	306.376
setTask1902	5	200	0.6350	5.003.147	100.419	149.103
setTask1903	5	200	0.6300	5.003.271	121.622	313.919
setTask1904	5	200	0.8200	587.849	117.299	0.0001
setTask1905	5	200	0.7050	5.003.305	434.247	568.633
setTask1906	5	200	0.6700	5.002.798	760.612	809.796
setTask1907	5	200	0.6700	5.003.008	553.733	624.524
setTask1908	5	198	0.6212	5.003.023	102.003	399.293
setTask1909	5	168	0.6131	5.002.942	160.565	517.008
setTask1910	5	200	0.6300	5.003.478	192.394	443.718
setTask1911	5	200	0.6800	5.002.921	18.304	214.236
setTask1912	5	200	0.6550	5.003.094	166.447	597.949
setTask1913	5	200	0.7050	5.003.248	456.597	623.611
setTask1914	5	112	0.6250	5.002.397	153.778	360.293
setTask1915	5	200	0.7500	5.002.954	425.591	601.212
setTask1916	5	200	0.6550	5.002.885	306.014	797.523
setTask1917	5	200	0.6250	5.003.117	125.372	10.574
setTask1918	5	120	0.6250	5.002.307	231.071	233.343
setTask1919	5	200	0.6400	5.002.760	739.662	870.774
setTask1920	5	200	0.8050	1.452.850	120.742	0.0001
setTask1921	5	200	0.7000	5.003.042	265.808	315.407
setTask1922	5	200	0.6600	5.002.910	202.796	632.438
setTask1923	5	144	0.6111	5.002.647	222.328	570.884
setTask1924	5	200	0.6500	5.003.404	269.268	418.998
setTask1925	5	200	0.6600	5.002.942	257.869	707.892
setTask1926	5	200	0.7050	5.003.124	197.408	300.156
setTask1927	5	200	0.7150	5.002.868	202.844	170.146
setTask1928	5	84	0.6071	5.002.124	372.404	373.266
setTask1929	5	200	0.7400	1.547.643	258.084	0.0001
setTask1930	5	200	0.8550	105.128	134.321	0.0001
setTask1931	5	200	0.6650	5.002.947	202.465	281.292
setTask1932	5	200	0.6300	5.002.926	107.765	120.738
setTask1933	5	200	0.6700	5.002.914	215.359	235.764

setTask1934	5	200	0.7100	5.003.062	264.689	56.023
setTask1935	5	200	0.6400	5.003.054	138.191	373.346
setTask1936	5	200	0.7750	469.990	104.565	0.0001
setTask1937	5	200	0.6350	5.002.816	921.517	11.454
setTask1938	5	200	0.6500	5.002.638	110.162	741.846
setTask1939	5	200	0.7050	2.001.009	530.704	0.0001
setTask1940	5	200	0.6700	5.002.961	215.908	531.023
setTask1941	5	200	0.6550	5.003.379	136.619	203.157
setTask1942	5	200	0.7800	1.227.442	112.072	0.0001
setTask1943	5	200	0.6350	5.002.871	198.547	351.433
setTask1944	5	189	0.6190	5.002.873	287.465	58.165
setTask1945	5	200	0.7200	5.003.026	463.922	429.598
setTask1946	5	200	0.6800	5.002.945	262.209	49.277
setTask1947	5	200	0.6950	5.002.732	586.297	626.309
setTask1948	5	126	0.6111	5.002.429	889.365	377.522
setTask1949	5	180	0.6222	5.002.774	145.442	330.913
setTask1950	5	180	0.6111	5.002.801	949.101	195.039
setTask1951	5	200	0.6300	5.003.269	928.571	144.527
setTask1952	5	140	0.6643	5.003.022	357.051	381.907
setTask1953	5	200	0.6550	5.002.873	170.619	600.844
setTask1954	5	200	0.6800	5.003.021	137.965	199.427
setTask1955	5	195	0.6359	5.002.967	323.189	678.283
setTask1956	5	200	0.7650	5.002.853	105.116	0.494299
setTask1957	5	200	0.6350	5.002.913	106.166	391.181
setTask1958	5	200	0.6650	5.003.465	285.204	50.778
setTask1959	5	200	0.6800	1.498.436	454.654	0.0001
setTask1960	5	200	0.7500	5.002.968	381.468	405.736
setTask1961	5	200	0.7150	5.003.105	209.605	298.588
setTask1962	5	200	0.7100	5.002.893	175.773	180.777
setTask1963	5	200	0.6550	5.002.944	298.815	804.428
setTask1964	5	200	0.6600	5.003.133	488.815	712.018
setTask1965	5	200	0.6450	5.002.879	402.787	598.215
setTask1966	5	200	0.6250	5.003.085	770.147	116.445
setTask1967	5	200	0.6750	5.003.207	15.114	336.096
setTask1968	5	200	0.6400	5.002.858	143.079	121.195
setTask1969	5	200	0.7100	5.002.895	14.142	22.92
setTask1970	5	200	0.6350	5.002.904	13.223	470.877
setTask1971	5	200	0.6300	5.003.927	126.022	342.141
setTask1972	5	200	0.6900	5.003.253	69.664	677.884
setTask1973	5	72	0.6111	5.002.481	601.469	535.745
setTask1974	5	200	0.6700	5.003.804	308.743	417.934
setTask1975	5	200	0.6500	4.974.174	280.801	0.0001
setTask1976	5	200	0.6500	5.003.652	133.998	279.411
setTask1977	5	200	0.6800	5.003.509	231.008	508.266
setTask1978	5	200	0.6550	5.003.885	103.269	124.025

setTask1979	5	200	0.7000	5.003.468	654.421	684.475
setTask1980	5	200	0.6600	5.003.445	360.794	63.645
setTask1981	5	200	0.6500	5.003.301	115.031	264.009
setTask1982	5	84	0.6310	5.002.386	146.636	21.636
setTask1983	5	180	0.6111	5.003.062	871.674	278.468
setTask1984	5	200	0.7800	854.848	107.392	0.0001
setTask1985	5	200	0.7050	5.004.292	408.994	469.872
setTask1986	5	200	0.6450	5.003.207	275.815	724.347
setTask1987	5	200	0.6600	5.003.399	329.352	468.432
setTask1988	5	200	0.7350	2.031.334	103.051	0.0001
setTask1989	5	200	0.7650	5.004.998	510.463	565.929
setTask1990	5	150	0.6267	5.004.690	294.006	31.131
setTask1991	5	200	0.7050	5.004.788	17.644	334.497
setTask1992	5	200	0.6650	5.004.378	801.787	104.708
setTask1993	5	200	0.6400	5.004.344	160.134	166.918
setTask1994	5	200	0.6750	5.005.213	352.111	453.926
setTask1995	5	200	0.6900	5.005.368	192.286	366.992
setTask1996	5	200	0.6550	5.005.157	652.514	66.236
setTask1997	5	200	0.6400	5.004.616	384.088	581.193
setTask1998	5	200	0.6950	5.004.757	163.209	20.699
setTask1999	5	200	0.6700	5.004.287	18.373	824.057
setTask2000	6	200	0.2550	5.005.418	197.022	163.285
setTask2001	6	200	0.2650	5.004.209	685.691	805.538
setTask2002	6	200	0.2750	5.003.629	141.037	356.843
setTask2003	6	200	0.2600	5.003.699	275.046	267.279
setTask2004	6	200	0.2750	5.003.685	23.977	135.693
setTask2005	6	200	0.2900	5.003.696	256.848	23.957
setTask2006	6	200	0.2800	5.003.620	282.386	202.483
setTask2007	6	200	0.2800	5.004.796	183.369	264.129
setTask2008	6	200	0.2500	5.003.452	175.822	246.679
setTask2009	6	200	0.2750	5.003.161	168.074	364.606
setTask2010	6	200	0.2550	5.003.211	124.377	59.907
setTask2011	6	200	0.3000	5.003.147	338.397	136.216
setTask2012	6	200	0.2800	5.007.011	174.611	699.385
setTask2013	6	200	0.2700	5.006.414	138.777	233.164
setTask2014	6	200	0.3050	5.003.071	210.787	161.949
setTask2015	6	200	0.2650	5.003.341	196.751	231.753
setTask2016	6	200	0.2600	5.003.604	470.378	783.079
setTask2017	6	200	0.2900	5.003.130	19.652	155.163
setTask2018	6	200	0.2850	5.002.795	177.922	130.185
setTask2019	6	200	0.2600	5.003.366	203.883	119.123
setTask2020	6	200	0.3050	5.002.971	158.662	535.206
setTask2021	6	200	0.3350	5.003.101	280.478	16.742
setTask2022	6	200	0.2900	5.003.472	157.731	551.535
setTask2023	6	200	0.2650	5.003.114	309.991	640.442

setTask2024	6	200	0.2550	5.003.301	177.604	324.797
setTask2025	6	200	0.2850	5.003.059	192.064	137.265
setTask2026	6	200	0.2500	5.003.106	123.558	412.143
setTask2027	6	200	0.2950	5.003.110	209.912	271.264
setTask2028	6	200	0.3000	5.002.972	199.805	151.579
setTask2029	6	200	0.2600	5.003.282	228.488	268.097
setTask2030	6	200	0.2650	5.003.119	128.569	217.769
setTask2031	6	200	0.2800	5.002.897	16.534	677.778
setTask2032	6	200	0.2950	5.003.021	151.403	316.276
setTask2033	6	200	0.2850	5.002.907	274.471	724.971
setTask2034	6	200	0.3400	5.002.955	24.323	110.281
setTask2035	6	200	0.2900	5.002.982	22.758	151.022
setTask2036	6	200	0.2900	5.003.260	697.762	791.777
setTask2037	6	200	0.3250	5.003.679	228.258	160.832
setTask2038	6	200	0.2750	5.003.155	194.971	235.127
setTask2039	6	200	0.2350	5.003.239	455.558	808.244
setTask2040	6	200	0.2600	5.003.580	177.414	17.955
setTask2041	6	200	0.2900	5.002.656	207.692	275.354
setTask2042	6	200	0.2550	5.002.963	129.783	354.005
setTask2043	6	200	0.2900	5.003.228	288.995	198.082
setTask2044	6	200	0.2550	5.002.943	313.147	684.143
setTask2045	6	200	0.2900	5.002.979	317.626	19.539
setTask2046	6	200	0.2900	5.003.732	18.502	211.222
setTask2047	6	200	0.3100	5.002.962	212.595	163.586
setTask2048	6	200	0.2900	5.003.111	441.261	671.028
setTask2049	6	200	0.2500	5.003.054	144.369	461.645
setTask2050	6	200	0.3050	5.003.448	180.894	354.142
setTask2051	6	200	0.3050	5.002.808	209.299	208.821
setTask2052	6	200	0.2500	5.003.141	282.305	288.871
setTask2053	6	200	0.2500	5.003.125	141.644	643.113
setTask2054	6	200	0.2700	5.003.111	18.103	209.016
setTask2055	6	200	0.2650	5.003.054	322.313	668.363
setTask2056	6	200	0.2500	5.002.965	109.248	367.536
setTask2057	6	200	0.2850	5.003.123	216.326	339.627
setTask2058	6	200	0.3150	5.003.906	50.904	745.936
setTask2059	6	200	0.3000	5.002.802	178.027	359.895
setTask2060	6	200	0.3150	5.002.815	157.397	31.844
setTask2061	6	200	0.2850	5.003.366	216.254	175.563
setTask2062	6	200	0.2600	5.003.107	16.149	142.403
setTask2063	6	200	0.3450	5.003.429	139.376	886.279
setTask2064	6	200	0.2650	5.003.125	148.207	775.666
setTask2065	6	200	0.2650	5.003.617	151.604	325.621
setTask2066	6	200	0.2650	5.003.423	461.544	632.664
setTask2067	6	200	0.2600	5.003.210	204.871	260.731
setTask2068	6	200	0.3050	5.003.128	217.416	127.841

setTask2069	6	200	0.3150	5.003.268	166.199	168.812
setTask2070	6	200	0.2950	5.003.128	143.038	0.631778
setTask2071	6	200	0.3100	5.003.115	231.679	179.391
setTask2072	6	200	0.2900	5.003.272	180.414	62.936
setTask2073	6	200	0.3350	5.003.054	227.127	218.856
setTask2074	6	200	0.2250	5.003.127	449.618	818.788
setTask2075	6	200	0.3250	5.003.277	322.899	132.127
setTask2076	6	200	0.2400	5.002.980	310.398	710.867
setTask2077	6	200	0.2600	5.003.276	196.068	211.897
setTask2078	6	200	0.2800	5.003.118	217.239	213.529
setTask2079	6	200	0.2900	5.003.210	576.955	766.329
setTask2080	6	200	0.3000	5.003.269	192.926	655.663
setTask2081	6	200	0.2750	5.003.140	569.981	775.583
setTask2082	6	200	0.2600	5.002.806	136.474	805.969
setTask2083	6	200	0.2450	5.002.952	469.625	729.234
setTask2084	6	200	0.2900	5.002.961	233.898	131.711
setTask2085	6	200	0.2850	5.003.054	149.028	649.298
setTask2086	6	200	0.3000	5.003.118	26.695	186.428
setTask2087	6	200	0.2600	5.002.807	126.758	136.486
setTask2088	6	200	0.2500	5.003.271	208.991	199.375
setTask2089	6	200	0.2600	5.002.968	129.228	375.069
setTask2090	6	200	0.3100	5.003.116	20.993	351.158
setTask2091	6	200	0.2550	5.002.898	18.305	1.417
setTask2092	6	200	0.2700	5.003.131	188.175	269.261
setTask2093	6	200	0.2900	5.003.130	231.068	179.834
setTask2094	6	200	0.2750	5.002.810	128.055	333.076
setTask2095	6	200	0.2500	5.003.265	420.248	653.531
setTask2096	6	200	0.2850	5.002.971	21.439	183.396
setTask2097	6	200	0.2600	5.003.054	314.931	680.323
setTask2098	6	200	0.3100	5.003.433	451.731	699.977
setTask2099	6	200	0.2900	5.002.965	270.949	716.168
setTask2100	6	200	0.3550	5.003.111	414.661	222.093
setTask2101	6	200	0.3950	5.002.988	204.871	796.469
setTask2102	6	200	0.3700	5.003.258	391.174	248.374
setTask2103	6	200	0.4050	5.003.210	467.992	125.803
setTask2104	6	200	0.3700	5.003.756	597.591	363.042
setTask2105	6	200	0.3450	5.003.266	242.871	234.793
setTask2106	6	200	0.3800	5.003.137	358.792	182.667
setTask2107	6	200	0.3600	5.003.733	250.911	164.037
setTask2108	6	200	0.3400	5.003.291	230.606	492.302
setTask2109	6	200	0.3400	5.002.897	382.188	893.758
setTask2110	6	200	0.3350	5.003.268	575.045	622.631
setTask2111	6	200	0.3850	5.003.122	324.996	611.347
setTask2112	6	200	0.3600	5.003.121	48.875	601.847
setTask2113	6	200	0.3400	5.002.962	288.226	816.179

setTask2114	6	200	0.3650	5.002.967	292.196	137.054
setTask2115	6	200	0.3250	5.003.522	289.802	145.347
setTask2116	6	200	0.3700	5.003.117	2.485	479.322
setTask2117	6	200	0.4050	5.003.751	17.385	902.152
setTask2118	6	200	0.4550	5.003.287	443.255	115.959
setTask2119	6	200	0.3350	5.002.967	213.861	439.251
setTask2120	6	200	0.3300	5.003.269	295.765	232.125
setTask2121	6	200	0.4100	5.003.835	257.778	912.556
setTask2122	6	200	0.3800	5.003.272	113.793	377.776
setTask2123	6	200	0.3850	5.003.456	391.512	511.513
setTask2124	6	200	0.3900	5.003.119	496.849	219.076
setTask2125	6	200	0.4000	5.002.979	221.537	72.424
setTask2126	6	200	0.3600	5.003.107	243.145	361.363
setTask2127	6	200	0.3650	5.003.835	441.948	222.296
setTask2128	6	200	0.3400	5.003.134	232.443	569.059
setTask2129	6	200	0.3800	5.002.972	465.745	101.362
setTask2130	6	200	0.3600	5.002.983	760.513	419.655
setTask2131	6	200	0.3700	5.003.125	87.931	386.183
setTask2132	6	200	0.4100	5.003.455	261.476	486.813
setTask2133	6	200	0.3650	5.003.210	406.996	347.977
setTask2134	6	200	0.3850	5.003.725	324.595	159.637
setTask2135	6	200	0.3850	5.003.136	430.896	126.782
setTask2136	6	200	0.3850	5.002.947	362.326	139.811
setTask2137	6	200	0.4200	5.002.979	426.644	23.132
setTask2138	6	200	0.4350	5.003.138	134.296	416.003
setTask2139	6	200	0.3750	5.003.679	127.487	618.451
setTask2140	6	200	0.3400	5.002.808	187.086	514.708
setTask2141	6	200	0.4000	5.003.117	251.903	387.961
setTask2142	6	200	0.3850	5.003.796	895.531	379.366
setTask2143	6	200	0.3600	5.003.709	886.988	419.795
setTask2144	6	200	0.3900	5.003.736	109.988	84.426
setTask2145	6	200	0.3650	5.003.366	405.648	146.165
setTask2146	6	200	0.3500	5.002.809	25.947	103.836
setTask2147	6	200	0.3500	5.003.443	314.205	139.076
setTask2148	6	200	0.4300	5.003.145	277.411	389.745
setTask2149	6	200	0.3850	5.003.108	454.067	267.687
setTask2150	6	200	0.3650	5.003.124	507.751	518.982
setTask2151	6	200	0.3500	5.003.366	491.727	663.299
setTask2152	6	200	0.3750	5.002.957	201.743	454.894
setTask2153	6	200	0.3800	5.003.748	258.381	493.541
setTask2154	6	200	0.4100	5.003.105	545.605	152.877
setTask2155	6	200	0.3700	5.002.971	30.702	140.744
setTask2156	6	200	0.3700	5.003.131	288.495	683.134
setTask2157	6	200	0.4400	5.004.147	176.134	890.583
setTask2158	6	200	0.3700	5.003.278	299.065	912.536

setTask2159	6	200	0.3550	5.003.260	244.917	969.599
setTask2160	6	200	0.3250	5.003.281	275.706	215.195
setTask2161	6	200	0.3650	5.003.284	201.855	550.835
setTask2162	6	200	0.3650	5.003.280	460.781	21.065
setTask2163	6	200	0.3950	5.003.210	355.514	142.499
setTask2164	6	200	0.4050	5.003.279	172.594	908.649
setTask2165	6	200	0.3700	5.003.279	805.132	741.252
setTask2166	6	200	0.3500	5.003.449	686.674	623.563
setTask2167	6	200	0.3800	5.003.130	455.828	568.171
setTask2168	6	200	0.3500	5.003.271	219.786	454.601
setTask2169	6	200	0.4000	5.003.522	244.931	122.814
setTask2170	6	200	0.3650	5.003.448	346.754	145.643
setTask2171	6	200	0.4100	5.002.978	37.375	857.317
setTask2172	6	200	0.3650	5.003.287	291.007	828.884
setTask2173	6	200	0.3900	5.003.274	256.089	918.461
setTask2174	6	200	0.3900	5.003.290	459.969	562.224
setTask2175	6	200	0.3650	5.003.210	763.715	417.941
setTask2176	6	200	0.3900	5.003.269	122.516	798.026
setTask2177	6	200	0.3500	5.003.434	274.107	180.501
setTask2178	6	200	0.4050	5.003.274	217.386	744.818
setTask2179	6	200	0.3650	5.003.905	400.668	15.928
setTask2180	6	200	0.3300	5.003.445	241.506	341.982
setTask2181	6	200	0.3900	5.003.568	778.814	410.031
setTask2182	6	200	0.3850	5.003.366	248.316	294.296
setTask2183	6	200	0.3350	5.003.608	504.616	600.422
setTask2184	6	200	0.3550	5.003.248	322.379	146.762
setTask2185	6	200	0.3750	5.003.299	251.503	172.039
setTask2186	6	200	0.4100	5.003.259	417.766	914.554
setTask2187	6	200	0.3500	5.003.448	305.727	35.441
setTask2188	6	200	0.3650	5.003.835	359.092	115.644
setTask2189	6	200	0.3850	5.003.271	910.397	409.254
setTask2190	6	200	0.3550	5.003.128	261.136	914.095
setTask2191	6	200	0.3750	5.003.275	272.364	993.987
setTask2192	6	200	0.3700	5.003.108	535.399	653.724
setTask2193	6	200	0.4200	5.003.164	917.231	406.284
setTask2194	6	200	0.4150	5.003.210	29.803	384.661
setTask2195	6	200	0.4000	5.003.264	371.091	909.104
setTask2196	6	200	0.3550	5.003.595	762.541	418.565
setTask2197	6	200	0.4450	5.003.143	260.013	904.796
setTask2198	6	200	0.3800	5.003.278	386.829	159.993
setTask2199	6	200	0.4200	5.003.417	256.672	91.64
setTask2200	6	200	0.4600	5.004.147	147.351	413.593
setTask2201	6	200	0.4550	5.003.124	800.146	594.682
setTask2202	6	200	0.4600	5.003.147	131.567	751.353
setTask2203	6	200	0.4350	5.003.288	525.767	790.878

setTask2204	6	200	0.4700	5.003.448	404.082	70.224
setTask2205	6	200	0.4200	5.003.725	40.668	161.475
setTask2206	6	200	0.4950	5.003.210	41.586	68.202
setTask2207	6	200	0.4750	5.003.739	179.232	474.339
setTask2208	6	200	0.4250	5.003.142	498.413	886.567
setTask2209	6	200	0.4550	5.003.421	983.917	56.563
setTask2210	6	200	0.4650	5.002.828	182.445	865.425
setTask2211	6	200	0.4500	5.003.434	125.851	775.089
setTask2212	6	200	0.4600	5.003.678	530.759	160.602
setTask2213	6	200	0.4550	5.003.741	911.765	290.646
setTask2214	6	200	0.5550	5.004.215	410.695	0.021678
setTask2215	6	200	0.4350	5.003.970	386.037	898.201
setTask2216	6	200	0.5150	5.003.542	120.429	209.981
setTask2217	6	200	0.4950	5.003.131	281.627	860.951
setTask2218	6	200	0.5000	5.003.210	115.337	279.998
setTask2219	6	200	0.5400	5.003.292	101.098	26.886
setTask2220	6	200	0.4500	5.003.590	455.751	106.475
setTask2221	6	200	0.5000	5.003.421	53.807	155.877
setTask2222	6	200	0.4650	5.002.325	102.647	280.879
setTask2223	6	200	0.4950	5.001.768	764.206	143.906
setTask2224	6	200	0.4500	5.002.225	584.829	110.764
setTask2225	6	200	0.5050	5.002.173	406.851	667.828
setTask2226	6	200	0.5400	5.001.488	40.769	0.0110685
setTask2227	6	200	0.5200	5.001.804	103.054	366.311
setTask2228	6	200	0.4350	5.002.042	579.031	775.511
setTask2229	6	200	0.4450	5.001.884	185.733	852.405
setTask2230	6	200	0.6400	5.001.729	100.96	0.00583679
setTask2231	6	200	0.4700	5.002.179	154.452	292.266
setTask2232	6	200	0.4400	5.009.971	9.948	265.476
setTask2233	6	200	0.4650	5.004.995	518.909	10.684
setTask2234	6	200	0.4850	5.002.141	128.079	763.819
setTask2235	6	200	0.4950	5.002.052	483.462	907.052
setTask2236	6	200	0.4850	5.002.094	542.612	168.875
setTask2237	6	200	0.4850	5.002.095	491.226	791.408
setTask2238	6	200	0.4500	5.002.056	201.366	67.315
setTask2239	6	200	0.4600	5.002.461	910.712	515.036
setTask2240	6	200	0.4850	5.002.951	431.712	83.339
setTask2241	6	200	0.4700	5.003.284	80.012	461.337
setTask2242	6	200	0.5000	5.003.978	491.106	15.879
setTask2243	6	200	0.4900	5.002.992	461.436	712.041
setTask2244	6	200	0.4750	5.004.080	974.522	257.267
setTask2245	6	200	0.4600	5.002.823	358.957	68.799
setTask2246	6	200	0.5150	5.003.070	963.422	263.069
setTask2247	6	200	0.4600	5.003.492	406.861	47.316
setTask2248	6	200	0.4850	5.003.311	178.895	877.911

setTask2249	6	200	0.4850	5.003.007	404.483	67.009
setTask2250	6	200	0.5250	5.004.513	271.004	880.119
setTask2251	6	200	0.5300	5.003.719	273.714	456.089
setTask2252	6	200	0.4550	5.003.920	70.131	162.168
setTask2253	6	200	0.4700	5.003.588	160.343	405.582
setTask2254	6	200	0.4950	5.003.698	474.302	192.409
setTask2255	6	200	0.4650	5.002.802	717.896	91.444
setTask2256	6	200	0.5100	5.003.269	223.593	834.121
setTask2257	6	200	0.4850	5.003.317	115.305	525.815
setTask2258	6	200	0.4950	5.003.634	936.896	25.34
setTask2259	6	200	0.6400	5.003.010	100.813	0.00660981
setTask2260	6	200	0.4450	5.003.650	298.348	50.561
setTask2261	6	200	0.4750	5.002.769	41.725	564.907
setTask2262	6	200	0.4800	5.002.363	410.928	972.867
setTask2263	6	200	0.4850	5.001.910	104.249	212.147
setTask2264	6	200	0.4650	5.002.960	121.242	513.146
setTask2265	6	200	0.4800	5.002.398	386.264	698.168
setTask2266	6	200	0.4950	5.002.318	490.692	709.447
setTask2267	6	200	0.4750	5.002.213	732.833	52.656
setTask2268	6	200	0.4700	5.002.504	129.634	290.275
setTask2269	6	200	0.4550	5.002.032	965.621	721.674
setTask2270	6	200	0.4500	5.002.241	413.491	157.201
setTask2271	6	200	0.5100	5.001.989	182.188	864.712
setTask2272	6	200	0.4650	5.002.509	55.663	210.157
setTask2273	6	200	0.4400	5.001.878	50.667	119.097
setTask2274	6	200	0.5150	5.002.268	338.617	655.682
setTask2275	6	200	0.4400	5.002.264	466.832	780.711
setTask2276	6	200	0.4650	5.014.042	357.466	133.598
setTask2277	6	200	0.5200	5.002.436	588.132	95.331
setTask2278	6	200	0.4650	5.001.744	354.988	723.664
setTask2279	6	200	0.5150	5.002.200	175.627	513.774
setTask2280	6	200	0.4400	5.002.132	6.152	13.364
setTask2281	6	200	0.4900	5.001.776	95.509	262.305
setTask2282	6	200	0.4850	5.001.873	513.864	95.446
setTask2283	6	200	0.4750	5.002.002	712.519	996.443
setTask2284	6	200	0.4950	5.001.889	117.873	585.732
setTask2285	6	200	0.4600	5.001.862	718.454	52.643
setTask2286	6	200	0.4800	5.001.728	378.118	106.653
setTask2287	6	200	0.4650	5.001.883	89.347	375.096
setTask2288	6	200	0.4700	5.002.032	68.824	358.701
setTask2289	6	200	0.4350	5.001.912	540.232	194.734
setTask2290	6	200	0.4550	5.001.993	829.664	265.485
setTask2291	6	200	0.4750	5.002.036	342.784	809.052
setTask2292	6	200	0.4350	5.002.152	16.11	592.282
setTask2293	6	200	0.4550	5.002.019	518.124	422.358

setTask2294	6	200	0.5100	5.002.120	307.632	813.307
setTask2295	6	200	0.5100	5.002.165	147.433	390.136
setTask2296	6	200	0.4500	5.001.846	47.147	286.486
setTask2297	6	200	0.4550	5.002.034	630.902	612.316
setTask2298	6	200	0.5150	5.002.023	469.517	932.264
setTask2299	6	200	0.4750	5.002.038	743.929	163.947
setTask2300	6	200	0.6150	5.001.890	151.843	643.662
setTask2301	6	200	0.5500	5.002.060	108.645	118.664
setTask2302	6	200	0.6000	5.001.948	145.678	242.577
setTask2303	6	200	0.5750	5.001.923	580.289	901.007
setTask2304	6	200	0.5600	5.002.331	197.243	598.015
setTask2305	6	200	0.5650	5.002.185	469.024	833.205
setTask2306	6	200	0.5600	5.002.202	869.525	278.726
setTask2307	6	200	0.5950	5.001.880	607.479	123.868
setTask2308	6	200	0.6200	5.001.854	254.916	749.898
setTask2309	6	200	0.5750	5.001.879	93.407	289.632
setTask2310	6	200	0.5850	5.002.045	424.061	862.093
setTask2311	6	200	0.5550	5.001.721	779.857	144.467
setTask2312	6	200	0.6250	5.002.470	196.485	805.659
setTask2313	6	200	0.6400	5.002.044	50.818	633.363
setTask2314	6	200	0.6050	5.001.867	641.543	119.864
setTask2315	6	200	0.6150	5.002.024	339.405	486.377
setTask2316	6	200	0.5600	5.001.941	140.208	364.022
setTask2317	6	200	0.5800	5.002.064	188.432	410.236
setTask2318	6	200	0.6400	5.002.136	177.344	214.765
setTask2319	6	200	0.7350	5.002.017	105.953	204.626
setTask2320	6	200	0.5650	5.002.341	415.691	848.926
setTask2321	6	200	0.5900	5.002.009	670.317	918.793
setTask2322	6	200	0.5500	5.001.960	870.589	558.419
setTask2323	6	200	0.5300	5.002.049	916.384	529.719
setTask2324	6	200	0.5650	5.001.885	137.425	341.776
setTask2325	6	200	0.6200	5.002.096	284.938	597.791
setTask2326	6	200	0.5500	5.002.316	107.786	198.945
setTask2327	6	200	0.6050	5.002.141	132.647	197.938
setTask2328	6	200	0.6550	5.002.512	218.418	432.433
setTask2329	6	200	0.6500	5.001.897	765.221	63.699
setTask2330	6	200	0.6100	5.001.653	901.198	225.793
setTask2331	6	200	0.5600	5.001.723	765.044	165.854
setTask2332	6	200	0.5750	5.002.029	785.043	937.115
setTask2333	6	200	0.5900	5.002.243	157.509	624.036
setTask2334	6	200	0.6200	5.001.824	617.816	934.605
setTask2335	6	200	0.5700	5.001.715	616.056	768.767
setTask2336	6	200	0.5850	5.001.919	730.158	974.853
setTask2337	6	200	0.5450	5.001.883	117.575	257.966
setTask2338	6	200	0.5900	5.002.136	319.491	512.496

setTask2339	6	200	0.5550	5.002.119	296.939	857.359
setTask2340	6	200	0.5950	5.001.850	163.107	390.595
setTask2341	6	200	0.6750	5.001.835	101.118	0.00941181
setTask2342	6	200	0.6250	5.001.958	804.235	126.147
setTask2343	6	200	0.5500	5.001.558	766.245	80.333
setTask2344	6	200	0.5650	5.002.038	936.005	115.298
setTask2345	6	200	0.6350	5.001.943	592.415	887.826
setTask2346	6	200	0.5650	5.001.976	370.134	771.396
setTask2347	6	200	0.5700	5.001.949	137.332	260.155
setTask2348	6	200	0.5600	5.001.725	696.266	126.161
setTask2349	6	200	0.5850	5.002.004	321.141	640.882
setTask2350	6	200	0.5550	5.002.033	227.549	696.595
setTask2351	6	200	0.5500	5.002.060	567.317	809.915
setTask2352	6	200	0.5800	5.002.580	136.311	366.268
setTask2353	6	200	0.5750	5.003.443	555.395	132.385
setTask2354	6	200	0.5550	5.003.097	168.048	701.303
setTask2355	6	200	0.6000	5.003.319	140.465	276.958
setTask2356	6	200	0.6000	5.003.092	105.623	461.686
setTask2357	6	200	0.6150	5.003.454	23.231	709.575
setTask2358	6	200	0.5800	5.004.133	75.742	478.644
setTask2359	6	200	0.5600	5.002.751	905.285	248.885
setTask2360	6	200	0.5400	5.003.483	563.729	890.156
setTask2361	6	200	0.5450	5.012.673	758.963	112.242
setTask2362	6	200	0.5550	5.001.907	150.089	517.099
setTask2363	6	200	0.6050	5.001.995	509.498	845.473
setTask2364	6	200	0.5600	5.002.298	157.767	346.617
setTask2365	6	200	0.6150	5.001.965	414.352	72.676
setTask2366	6	200	0.6100	5.001.951	19.572	584.761
setTask2367	6	200	0.5650	5.002.008	130.965	487.151
setTask2368	6	200	0.5850	5.001.924	118.105	31.287
setTask2369	6	200	0.5500	5.002.112	110.746	200.277
setTask2370	6	200	0.6500	5.002.058	50.907	632.273
setTask2371	6	200	0.5650	5.001.582	997.237	391.548
setTask2372	6	200	0.5600	5.001.796	200.726	288.626
setTask2373	6	200	0.5600	5.001.937	196.506	809.079
setTask2374	6	200	0.5500	5.001.626	389.504	124.874
setTask2375	6	200	0.5500	5.001.969	131.581	325.396
setTask2376	6	200	0.5850	5.001.928	105.574	247.854
setTask2377	6	200	0.5400	5.001.893	740.704	168.786
setTask2378	6	200	0.5450	5.002.024	224.873	577.556
setTask2379	6	200	0.5500	5.001.866	130.208	301.743
setTask2380	6	200	0.5650	5.011.625	214.536	636.184
setTask2381	6	200	0.5500	5.002.057	151.765	660.574
setTask2382	6	200	0.6050	5.002.090	954.315	404.236
setTask2383	6	200	0.5950	5.002.717	242.504	420.974

setTask2384	6	200	0.6250	5.003.255	287.731	678.995
setTask2385	6	200	0.6200	5.003.159	756.751	637.912
setTask2386	6	200	0.5600	5.003.072	621.931	989.217
setTask2387	6	200	0.5800	5.002.854	571.059	696.651
setTask2388	6	200	0.5950	5.002.917	120.071	148.663
setTask2389	6	200	0.6050	5.002.891	62.041	765.002
setTask2390	6	200	0.5650	5.002.777	248.423	631.219
setTask2391	6	200	0.6350	5.003.053	278.941	848.127
setTask2392	6	200	0.6250	5.002.884	100.744	0.00595054
setTask2393	6	200	0.5950	5.002.989	126.103	321.235
setTask2394	6	200	0.5750	5.002.263	179.521	285.903
setTask2395	6	200	0.5700	5.002.337	103.044	42.935
setTask2396	6	200	0.5950	5.002.289	264.425	732.342
setTask2397	6	200	0.6200	5.002.000	24.097	331.726
setTask2398	6	200	0.5650	5.001.888	563.797	791.101
setTask2399	6	200	0.5500	5.002.106	106.576	363.027
setTask2400	6	200	0.7000	5.001.978	270.678	225.653
setTask2401	6	200	0.6300	5.001.981	29.755	437.952
setTask2402	6	200	0.7050	5.002.021	607.021	261.064
setTask2403	6	200	0.6800	5.001.906	34.534	459.053
setTask2404	6	200	0.7050	5.002.178	139.704	301.981
setTask2405	6	200	0.7050	5.001.762	355.224	438.942
setTask2406	6	200	0.6500	5.002.042	843.734	129.668
setTask2407	6	200	0.6950	5.002.092	465.607	494.766
setTask2408	6	200	0.6950	5.002.194	395.059	345.802
setTask2409	6	200	0.7650	5.002.711	414.056	464.249
setTask2410	6	200	0.6700	5.002.102	126.686	205.499
setTask2411	6	200	0.6800	5.002.478	324.325	759.887
setTask2412	6	200	0.6550	5.002.168	200.642	587.775
setTask2413	6	200	0.6700	5.002.851	740.629	765.186
setTask2414	6	200	0.7250	5.002.394	102.465	0.0493762
setTask2415	6	200	0.6350	5.002.266	124.456	385.122
setTask2416	6	200	0.6900	5.001.951	115.231	128.238
setTask2417	6	200	0.7000	5.003.044	40.637	469.179
setTask2418	6	200	0.6950	5.002.542	36.345	403.424
setTask2419	6	200	0.6750	5.002.406	170.201	606.494
setTask2420	6	200	0.6850	5.002.068	10.604	110.787
setTask2421	6	126	0.6190	5.001.437	115.754	341.835
setTask2422	6	200	0.7000	5.002.469	224.868	375.478
setTask2423	6	200	0.7650	5.002.228	452.157	428.007
setTask2424	6	200	0.6400	5.002.275	312.794	778.259
setTask2425	6	200	0.6350	5.002.020	102.127	765.492
setTask2426	6	200	0.6750	5.002.092	185.776	352.158
setTask2427	6	200	0.7150	5.002.330	508.958	439.507
setTask2428	6	200	0.6600	5.002.297	282.106	503.023

setTask2429	6	200	0.6500	5.002.329	818.765	808.937
setTask2430	6	200	0.6850	5.002.241	180.926	23.745
setTask2431	6	200	0.6650	5.001.860	152.684	284.486
setTask2432	6	200	0.7300	5.001.986	443.738	50.272
setTask2433	6	200	0.6500	5.001.788	14.633	500.777
setTask2434	6	200	0.7250	5.001.801	410.127	309.394
setTask2435	6	200	0.6450	5.002.039	237.531	687.828
setTask2436	6	200	0.6950	5.001.924	280.921	353.686
setTask2437	6	200	0.6700	5.001.852	153.282	261.554
setTask2438	6	200	0.6550	5.002.170	440.008	837.765
setTask2439	6	200	0.6650	5.001.948	379.581	388.858
setTask2440	6	200	0.6450	5.001.800	750.358	801.914
setTask2441	6	200	0.6750	5.001.853	858.199	104.141
setTask2442	6	200	0.8150	47.946	150.714	0.0001
setTask2443	6	200	0.7050	5.001.937	197.898	237.403
setTask2444	6	200	0.7150	5.001.869	241.693	676.277
setTask2445	6	200	0.6650	5.002.009	363.372	66.366
setTask2446	6	200	0.6250	5.001.724	110.404	364.755
setTask2447	6	200	0.6950	5.001.739	324.639	694.091
setTask2448	6	200	0.6300	5.001.870	842.619	118.047
setTask2449	6	200	0.6800	5.001.851	314.737	775.769
setTask2450	6	200	0.6600	5.001.881	112.679	116.497
setTask2451	6	200	0.7150	5.001.985	303.294	555.898
setTask2452	6	200	0.6450	5.001.888	322.433	761.434
setTask2453	6	200	0.8400	1.656.842	120.058	0.0001
setTask2454	6	200	0.7550	5.002.057	561.066	387.163
setTask2455	6	200	0.6600	5.002.311	916.574	795.356
setTask2456	6	200	0.6600	5.002.038	760.923	114.042
setTask2457	6	200	0.7150	5.001.887	172.635	21.896
setTask2458	6	200	0.6850	5.001.888	107.854	249.055
setTask2459	6	200	0.6650	5.001.847	735.132	947.242
setTask2460	6	200	0.6650	5.002.084	263.283	723.778
setTask2461	6	200	0.6650	5.002.068	226.835	376.895
setTask2462	6	200	0.6900	5.001.935	39.251	682.609
setTask2463	6	200	0.6850	5.001.897	996.409	116.038
setTask2464	6	200	0.7250	5.002.001	36.773	436.187
setTask2465	6	200	0.7100	5.001.592	190.821	257.559
setTask2466	6	200	0.6450	5.001.683	135.064	195.814
setTask2467	6	200	0.7700	5.001.957	415.378	0.0324061
setTask2468	6	200	0.7350	5.002.158	355.527	44.817
setTask2469	6	200	0.6600	5.001.852	754.981	118.165
setTask2470	6	200	0.6300	5.001.685	832.547	147.143
setTask2471	6	200	0.6650	5.002.035	815.636	11.403
setTask2472	6	200	0.6900	5.002.177	552.787	63.997
setTask2473	6	200	0.8150	5.001.795	104.254	0.108587

setTask2474	6	200	0.6650	5.001.834	158.314	250.954
setTask2475	6	200	0.6900	5.002.138	215.978	362.172
setTask2476	6	200	0.6750	5.001.989	100.164	367.944
setTask2477	6	200	0.7700	5.001.682	103.61	0.248179
setTask2478	6	200	0.6800	5.001.886	307.425	301.223
setTask2479	6	200	0.6750	5.001.731	162.319	420.167
setTask2480	6	200	0.6800	5.002.186	151.831	387.091
setTask2481	6	200	0.7350	5.001.826	211.837	296.463
setTask2482	6	200	0.6950	5.001.763	331.554	738.756
setTask2483	6	200	0.6500	5.002.161	246.365	763.829
setTask2484	6	200	0.6450	5.001.887	113.224	221.822
setTask2485	6	200	0.6500	5.001.880	152.074	214.683
setTask2486	6	200	0.7000	5.001.768	744.047	557.283
setTask2487	6	200	0.6700	5.001.936	223.965	447.506
setTask2488	6	200	0.7900	5.001.965	396.898	416.738
setTask2489	6	200	0.6750	5.001.827	342.276	378.311
setTask2490	6	200	0.6900	5.001.895	235.206	268.741
setTask2491	6	200	0.7800	5.002.234	104.503	0.0387993
setTask2492	6	200	0.6400	5.002.072	24.032	698.115
setTask2493	6	200	0.6500	5.006.043	81.272	152.766
setTask2494	6	200	0.7500	5.003.550	344.021	575.909
setTask2495	6	200	0.6550	5.001.884	702.037	103.516
setTask2496	6	200	0.6350	5.001.905	964.971	136.031
setTask2497	6	200	0.7600	5.001.970	31.547	300.209
setTask2498	6	200	0.6850	5.002.041	155.076	32.689
setTask2499	6	200	0.6550	5.002.368	654.136	75.151

Tabla 9. Resultados de CPLEX