

CODING CONTEST





Glowy:

Considering how much help I was to you already, I am being paid way too little.

It reminds me about my time in Germany. Damn, wages were crap there. I was being paid 2 tickle-watts per hour. Had a great friend working at a hydroelectric plant there, an electrician of course. He never complained about his salary. He would drive this really cool car which had a special place in the trunk just for tools and test-bulbs (that was my job).

... it was a Volts-wagon



Glowy:



But in all seriousness, check this out.

Additional info

Only a given amount of tasks can run at the same minute

Task for Level 5:
same like Level 4 while also fulfilling the concurrent task
constraint

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- You are given a maximum amount of tasks that can draw power at the same minute.
- > The power threshold from Level 4 still cannot be exceeded.
- > The maximum electricity bill still cannot be exceeded.
- > The solution does not have to be optimal, every solution that fulfills all constraints is valid.





	Input	Output
Format	<pre>maxPower maxElectricityBill maxConcurrentTasks N price(repeats N times) M taskId power startInterval endInterval (repeats M times)</pre>	M taskId minuteId power minuteId2 power2 (repeats N times) same as Level 4
Types	maxPower (int) maximum power that can be drawn at any given minute by all tasks combined maxElectricityBill (long) maximum electricity bill maxConcurrentTasks (int) maximum tasks that can draw power at the same time N (int) number of minutes that follow price (int) price of power at that minute M (int) Number of tasks that follow taskId (int) id of the task starting at 1 power (int) the amount of power the task has to draw to be completed startInterval (int) the id of the first minute that power can be drawn for this task endInterval (int) the id of the last minute that power can be drawn for this task	M (int) Number of tasks that follow taskId (int) id of the task minuteId (int) id of the minute the task is drawing power power (int) amount of power that is drawn for the given minute

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	Input	Output	
Example	3 100000 2 20 6618 9119 9865 8182 7523 6877 7141 6647 7705 6636 7333 4994 4771 3991 2811 3205 2448 4377 3427 5607 5 1 1 6 9 2 2 8 19 3 2 7 16 4 7 6 13 5 3 14 18	5 1 9 1 2 14 1 15 1 3 14 2 4 13 3 12 3 11 1 5 16 3	

