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Shopee Code League 2022 - Qualification Round

LIVE INVITE ONLY ACCESS

Mar 19, 2022, 03:00 PM WITA - Mar 19, 2022, 06:00 PM WITA

INSTRUCTIONS	PROBLEMS	SUBMISSIONS	LEADERBOARD	ANALYTICS	JUDGE
← Problems / Fireworks	Festival				
Fireworks I	Festival				
Max. score: 100					

Shopee will be hosting a fireworks festival along one of Singapore's main streets. The main street spans across N number of roads and the distance between each adjacent road is 1.

The person-in-charge is expected to set off the fireworks for m times, with the i th time ($1 \le i \le m$) being set off at the timing ti along the road ai punctually. If you catch the i th firework at road x

 $(1 \le x \le n)$, then you will be able to receive bi-|ai-x| amount of free Shopee coins. Note that the amount of Shopee coins may be a negative value.

You are able to move d amount of distance within each unit of time without leaving the main street. Alternatively, you may also pick a random spot along the main street at the beginning of the festival (where time = 1) to maximise your chances of gaining Shopee coins.

Note that the person-in-charge may concurrently set off two or more fireworks at one time.

Your aim is to strategise the best way to receive the highest amount of Shopee coins.

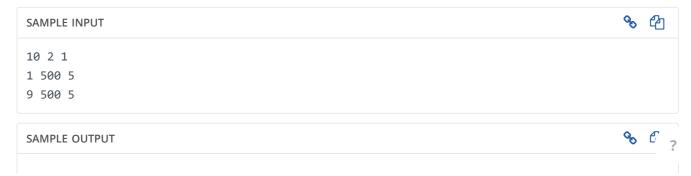
<u>Input</u>

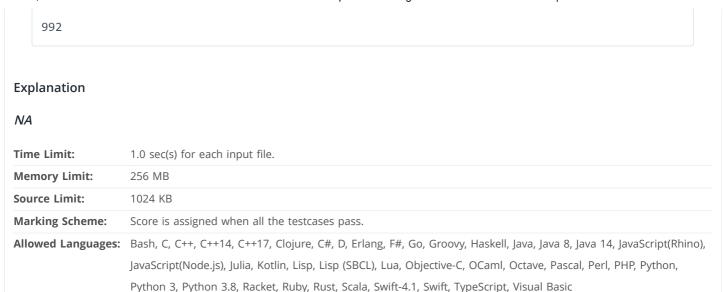
The first row should feature three integers: n, m, d ($1 \le n \le 150000; 1 \le m \le 300; 1 \le d \le n$). For variable m, each row of input should include integers ai, bi, ti ($1 \le a_i \le n; 1 \le b_i \le 10^9; 1 \le t_i \le 10^9$). The i th row should feature the respective variables for the i th set off.

Note: It is ensured that the inputs fulfil the criteria of $ti \le ti + 1$ ($1 \le i < m$).

Output:

To print an integer of the highest possible amount of Shopee coins.





CODE EDITOR

```
C (gcc 10.3)
                                            Save
    /*
1
2
    // Sample code to perform I/O:
3
    #include <stdio.h>
4
5
    int main(){
6
        int num;
7
        scanf("%d", &num);
                                              // Reading input from STDIN
        8
9
    }
10
    // Warning: Printing unwanted or ill-formatted data to output will cause the test
    cases to fail
12
    */
13
14
    // Write your code here
15
```

1:1 vscode

?



rest against custom input

Compile & Test code

Submit code

" Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

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