

HackerEarth Username: b.julien

Screenshots:

The screenshot shows the HackerEarth interface for the 'Missing Soldiers' problem. The user 'b.julien' has submitted a solution in Python 3, which was accepted. The submission details table shows a score of 20.0, a time of 2.67216 seconds, and a memory usage of 20632 KB. The problem page also displays the problem description, constraints, and a list of contributors.

Missing Soldiers

8179 90% 20 ★★★★★ 87 votes Easy Share

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#	Problem	Result	Time (Sec)	Memory (kb)	Language	Detail	Date
1	Missing Soldiers	Accepted	2.67216	20632	Python 3	View	10 hours ago

Best Submissions

Language: Bash (GNU bash, version 4.3.11) There is no solution for this language.

Activate Windows
Go to Settings to activate Windows.

Input files & results screenshot:

Output a single integer, the number of ants that will be ever blocked at some point in their march.

CONSTRAINTS

$1 \leq N \leq 10^5$
 $1 \leq x_i, y_i, d_i \leq 10^9$

Sample Input	Sample Output
2 1 1 4 7 3 5	11

Time Limit: 1
Memory Limit: 256
Source Limit:

Explanation

Here 5 ants will be blocked on points (1,1), (2, 1), (3, 1), (4, 1) and (5, 1).

6 ants will be blocked on (7, 3), (8, 3), (9, 3), (10, 3), (11, 3), (12, 3).

In total, 11 ants are blocked in their journey.

Contributors:

- Aditya Shah
- Paweł Kacprzak

Submission ID: 54796264 / 3 seconds ago

RESULT: Accepted [Refer judge environment](#)

Score	Time (sec)	Memory (KiB)	Language
20.0	2.67216	20632	Python 3

Input	Result	Time (sec)	Memory (KiB)	Score	Your Output	Correct Output	Diff
Input #1	Accepted	0.034701	3772	5			
Input #2	Accepted	0.058333	3760	5			
Input #3	Accepted	0.05238	3760	10			
Input #4	Accepted	0.034509	3760	10			
Input #5	Accepted	0.034138	3760	10			
Input #6	Accepted	0.067848	5112	10			
Input #7	Accepted	0.450417	20596	10			
Input #8	Accepted	0.464491	20632	10			
Input #9	Accepted	0.485715	20612	10			
Input #10	Accepted	0.531227	20624	10			

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Codes:

```
# Number of barriers
n = int(input())

#hold the barriers coordinates
barriers = []

# getting the coordinates from the user
for i in range(n):
    [x,y,d] = [int(c) for c in input().split()]
    barriers.append([x,x+d])

#sorting the barriers
barriers.sort()

#initializing the counter
blocked_ants = 0
marker = 0

# block ants in the coordinates
for barrier in barriers:
    if(barrier[0] >= marker):
        marker = barrier[0]
        if(marker < barrier[1]):
            blocked_ants = blocked_ants + (barrier[1] - marker)+1
            marker = barrier[1]+1
    elif(marker <= barrier[1]):
        blocked_ants = blocked_ants + (barrier[1] - marker)+1
        marker = barrier[1]+1

# printing the total number of blocked ants
print (blocked_ants)
```