



HackerEarth Name: Modester Mwangi



PRACTICECOMPETECOMPANIESLEADERBOARD

Search developers, problems, etc



All Tracks > Algorithms > Sorting > Merge Sort > Problem

DetailsSubmissionsDiscussionSimilar ProblemsEditorial

Note: The barriers in the input may overlap.

OUTPUT

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.


Enter your code or Upload your code as file. Save Python 3.8 (python 3.8.2)

```
8 cause the test cases to fail
9 '''
10 # Write your code here
11 read_input = int(input())
12
13 listed_x_points = []
14
15 for _ in range(read_input):
16     list = [n for n in input().split(' ')] #append values into list and
17     #split them
18     upper_limit = int(list[2]) + int(list[0]) # index 2 is d and index
19     0 as x
20
21     for vals in range(int(list[0]), upper_limit + 1):
22         listed_x_points.append(vals)
23
24 no_duplicates = []
25 [no_duplicates.append(i) for i in listed_x_points if i not in
26 no_duplicates]
27 # print(no_duplicates)
28 print(len(no_duplicates))
```



PRACTICECOMPETECOMPANIESLEADERBOARD

Search developers, problems, etc



All Tracks > Algorithms > Sorting > Merge Sort > Problem

DetailsSubmissionsDiscussionSimilar ProblemsEditorial

Note: The barriers in the input may overlap.

OUTPUT

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

 Pawel Karnatak

RESULT:  Partially accepted [Refer judge environment](#)

Score	Time (sec)	Memory (KiB)	Language
8.0	7.93581	263988	Python 3.8

Input	Result	Time (sec)	Memory (KiB)	Score	Your Output	Correct Output	Diff
Input #1	Accepted	0.025918	2948	5			
Input #2	Accepted	0.034042	3204	5			
Input #3	Accepted	0.051558	3204	10			
Input #4	Accepted	0.033389	3204	10			
Input #5	Accepted	2.765741	16956	10			
Input #6	Memory limit exceeded	0.845823	263476	0			
Input #7	Memory limit exceeded	0.801252	262452	0			
Input #8	Memory limit exceeded	0.791816	263732	0			

Codes:

```
# Write your code here
read_input = int(input())

listed_x_points = []

for _ in range(read_input):
    list = [n for n in input().split(' ')] #append values into list and
split them
    upper_limit = int(list[2]) + int(list[0]) # index 2 is d and index 0 as
x

    for vals in range(int(list[0]), upper_limit + 1):
        listed_x_points.append(vals)

no_duplicates = []
[no_duplicates.append(i) for i in listed_x_points if i not in
no_duplicates]
# print(no_duplicates)
print(len(no_duplicates))
```