Apple and Orange ☆

Submissions

Leaderboard

Problem

Problem Setter's code:



Rank: 147192 | Points: 782.47/850



The exact position of a fruit can be found by adding its distance from its tree to the position of the tree. That mean the exact position of an apple is its distance d+a and exact position of an orange is its distance d+b. (Just addition is enough because the left distance is already given in negative). Now let a fruit position is p. The fruit only falls on Sam's house if $s \le p \le t$. Count the fruits that fulfill this condition.

Editorial

#include <cmath> #include <cstdio> #include <vector> #include <iostream> #include <algorithm> using namespace std; int main() { int s, t, a, b, n, m, d, ans1=0, ans2=0; cin >> s >> t >> a >> b >> m >> n; for(int i=0;i<m; i++) {</pre> cin>>d; d = a+d;if(d>=s && d<=t) ans1++; for(int i=0;i<n; i++) { cin>>d: d = b+d;if(d>=s && d<=t) ans2++; cout << ans1 << endl;</pre> cout << ans2 << endl;</pre> return 0;

Tested by shashank21j

Problem Tester's code:

```
start_house, end_house = map(int, raw_input().split())
left_tree, right_tree = map(int, raw_input().split())
number_of_apples, number_of_orranges = map(int, raw_input().split())
apple_distances = map(int, raw_input().split())
orange_distances = map(int, raw_input().split())
apple_count = 0

for distance in apple_distances:
    if start_house <= left_tree + distance <= end_house:
        apple_count += 1
for distance in orange_distances:
    if start_house <= right_tree + distance <= end_house:
        orange_count += 1
print apple_count
print orange_count</pre>
```



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