

E EVENTS

ALCoding Challenge - Summer 2019

Jul 12, 2019, 11:30 AM EDT - Jul 12, 2019, 02:30 PM EDT

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / Schedule Matches

Schedule Matches

Max. Marks: 60

This problem is no longer available for practice. Apology for any inconvenience!

ALbaba has been given a task to schedule cricket matches for the upcoming tournament.

Given N days (in the form of ALbaba calendar where a day is represented as an integer) D_1 , D_2 , D_N , But, ALbaba has a superstition that it will rain on days, if the chosen three days are not three consecutive terms of an arithmetic progression.

Meaning, how many triplets days (P, Q, R) are there such that $1 \le P < Q < R \le N$ and $D_{O^{-}}D_{P} = D_{R} - D_{O}$.

So the triplets (10, 20, 30), (12, 8, 4), (6, 6, 6) are valid as they are three consecutive days which have an arithmetic progression. But the triplets (20, 5, 17), (10, 6, 8), (3,3,1) are not.

Help ALbaba to find the number of ways he could schedule the matches on the days such that they are in arithmetic progression.

Input:-

First line of the input contains an integer N. Then the following line contains N space separated integers D_1 , D_2 ,, D_N .

Output:-

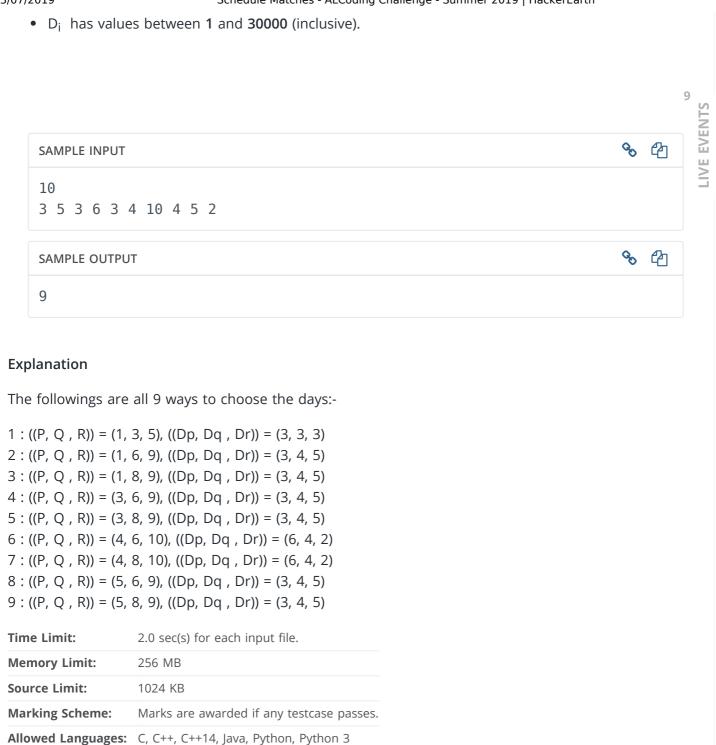
Output the number of ways to choose a triplet such that they are three consecutive terms of an arithmetic progression.

Note:-

- There are just 3 games he has to schedule.
- All the three games can happen on the same day.

Constraints:-

• 3 ≤ N ≤ 100000



CODE EDITOR

```
Enter your code or Upload your code as file.
                                                Save
                                                       C (gcc 5.4.0)
1
 2
    // Sample code to perform I/O:
3
    #include <stdio.h>
 5
    int main(){
6
        int num;
 7
        scanf("%d", &num);
                                                       // Reading input from STDIN
8
        printf("Input number is %d.\n", num);
                                                       // Writing output to STDOUT
9
    }
10
    // Warning: Printing unwanted or ill-formatted data to output will cause the test cases 1
```

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