

- Description
- My Submissions
- Hints/Editorial
- AC Submissions
- My Notes (0)

# Longest AP AZ101

? Ask Doubt

Time-Limit: 1 sec    Score: 100.00/100    Difficulty : ★

Memory: 256 MB    Accepted Submissions: 100

## Description

You are given an array A of N integers. You have to choose a contiguous arithmetic subarray with equal difference between consecutive integers, that has the maximum length. Find the maximum possible length.

## Input Format

The first line of the input contains one integer T - the number of test cases. Then T test cases follow.

The first line of each test case contains one integer N - the length of the array.

The second line of each test case contains N space-separated integers.

## Output Format

For each test case, print the maximum possible length.

## Constraints

$1 \leq T \leq 10^5$

$2 \leq N \leq 10^5$

$-10^7 \leq A_i \leq 10^7$

It is guaranteed that the sum of N over all test cases does not exceed  $10^5$ .

## Sample Input 1

Copy

```
3
4
1 2 3 5
6
1 4 7 4 1 -2
2
1 8
```

## Sample Output 1

Copy

```
3
```

C++14[GCC] ▾

Submit

1