



(/en/),  
v1.1.0

CSD Testing System

(/en/)

# The biggest sub-array made of sequential numbers

Cost: 3 | Solved: 35

**Memory limit:** 256 MBs

**Time limit:** 1 s

**Input:** input.txt

**Output:** output.txt

## Task:

You are given an array of integers. Find its biggest sub-array **a** which satisfies the next conditions for every  $i=1\dots m-1$  (**m** is the length of the sub-array):  $|a[i] - a[i-1]| = |a[i+1] - a[i]| = 1$  &&  $a[i] - a[i-1] == a[i+1] - a[i]$

## Input:

The first line contains a natural **n** ( $1 \leq n \leq 10^8$ ) – an array's length, the next line contains **n** elements of an array.

## Output:

The length of the biggest sub-array (according to the condition).

## Example:

Input	Output
11 12 11 1 2 3 4 6 7 8 9 10	5

The biggest sub-array in the example is 6 7 8 9 10 which contains 5 elements.

Report a bug (/en/webform-feedback/nojs?submittedfrom=tasks/task/7741)

