

## Problem C

Your teacher has given you some problems to solve. You must first solve problem 0. After solving each problem  $i$ , you must either move on to problem  $i+1$  or skip ahead to problem  $i+2$ . You are not allowed to skip more than one problem. For example, 0, 2, 3, 5 is a valid order, but 0, 2, 4, 7 is not because the skip from 4 to 7 is too long.

You are given a `int[] pleasantness`, where `pleasantness[i]` indicates how much you like problem  $i$ . The teacher will let you stop solving problems once the range of pleasantness you've encountered reaches a certain threshold. Specifically, you may stop once the difference between the maximum and minimum pleasantness of the problems you've solved is greater than or equal to the `int` variety. If this never happens, you must solve all the problems. Return the minimum number of problems you must solve to satisfy the teacher's requirements.

- `pleasantness` will contain between 1 and 50 elements, inclusive.
- Each element of `pleasantness` will be between 0 and 1000, inclusive.
- `variety` will be between 1 and 1000, inclusive.

See examples for input/output format.

C.IN

1

4

10 1 12 101

100

C.OUT

3