Given an array of integers, find the longest subarray where the absolute difference between any two elements is less than or equal to 1 .

## Example

$$
a=[1,1,2,2,4,4,5,5,5]
$$

There are two subarrays meeting the criterion: $[1,1,2,2]$ and $[4,4,5,5,5]$. The maximum length subarray has 5 elements.

## Function Description

Complete the pickingNumbers function in the editor below.
pickingNumbers has the following parameter(s):

- int $a[n]$ : an array of integers


## Returns

- int: the length of the longest subarray that meets the criterion


## Input Format

The first line contains a single integer $n$, the size of the array $a$.
The second line contains $n$ space-separated integers, each an $a[i]$.

## Constraints

- $2 \leq n \leq 100$
- $0<a[i]<100$
- The answer will be $\geq 2$.


## Sample Input 0

```
4 6 5 3 3 1
```


## Sample Output 0

3

## Explanation 0

We choose the following multiset of integers from the array: $\{4,3,3\}$. Each pair in the multiset has an absolute difference $\leq 1$ (i.e., $|4-3|=1$ and $|3-3|=0$ ), so we print the number of chosen integers, 3 , as our answer.

## Sample Input 1

```
6
122312
```


## Sample Output 1

5

## Explanation 1

We choose the following multiset of integers from the array: $\{1,2,2,1,2\}$. Each pair in the multiset has an absolute difference $\leq 1$ (i.e., $|1-2|=1,|1-1|=0$, and $|2-2|=0$ ), so we print the number of chosen integers, 5 , as our answer.

