## Problem: Minimum Distance:

Consider an array of integers, . The distance between two indices, and , is denoted by .

Given, find the *minimum* such that and. In other words, find the minimum distance between any pair of equal elements in the array. If no such value exists, print.

**Note:** denotes the absolute value of .

#### **Input Format**

The first line contains an integer, , denoting the size of array .

The second line contains space-separated integers describing the respective elements in array .

#### **Constraints**

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#### **Output Format**

Print a single integer denoting the minimum in; if no such value exists, print.

#### Sample Input

6

7 1 3 4 1 7

#### **Sample Output**

3

### **Explanation**

Here, we have two options:

- and are both, so.
- and are both, so.

The answer is.

# Solution

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