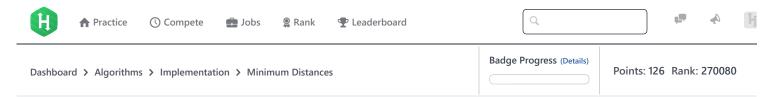
15/11/2017 HackerRank



Minimum Distances



Problem Submissions Leaderboard Discussions Editorial

Consider an array of n integers, $A = [a_0, a_1, \ldots, a_{n-1}]$. The distance between two indices, i and j, is denoted by $d_{i,j} = |i - j|$.

Given A, find the minimum $d_{i,j}$ such that $a_i = a_j$ and $i \neq j$. In other words, find the minimum distance between any pair of equal elements in the array. If no such value exists, print -1.

Note: |a| denotes the absolute value of a.

Input Format

The first line contains an integer, $m{n}$, denoting the size of array $m{A}$.

The second line contains $m{n}$ space-separated integers describing the respective elements in array $m{A}$.

Constraints

- $1 \le n \le 10^3$
- $1 \le a_i \le 10^5$

Output Format

Print a single integer denoting the minimum $d_{i,j}$ in A; if no such value exists, print -1.

Sample Input

6 7 1 3 4 1 7

Sample Output

3

Explanation

Here, we have two options:

- ullet a_1 and a_4 are both 1, so $d_{1,4}=|1-4|=3$.
- a_0 and a_5 are both **7**, so $d_{0,5}=|0-5|=5$.

The answer is min(3,5) = 3.

f ⊌ in

Submissions: 27356

Max Score:20 Difficulty: Easy 15/11/2017 HackerRank

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```
Current Buffer (saved locally, editable) & 🗗
                                                                                             Java 7
 1 ▼ import java.io.*;
    import java.util.*;
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ₹
         public static void main(String[] args) {
10
             Scanner in = new Scanner(System.in);
             int n = in.nextInt();
11
12 ▼
             int A[] = new int[n];
             for(int A_i=0; A_i < n; A_i++){</pre>
13 ▼
                 A[A_i] = in.nextInt();
14 ▼
15
         }
16
17
    }
18
                                                                                                                       Line: 1 Col: 1
                                                                                                          Run Code
                                                                                                                        Submit Code
                      ☐ Test against custom input
Upload Code as File
```

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