Ups and Downs

ZPRAC-16-17-Lab5

[20 points]

Given an array of N integers a[0], a[1], .. a[N-1], print the absolute difference of index between the maximum integer and minimum integer.

Input Format:
First line contains the number N
Second line contains a sequence of N space separated integers.

Constraints:
1 ≤ N ≤ 1000
-10000 ≤ a[i] ≤ 10000

Output Format:
Print the absolute difference between the index of the maximum and minimum integer in the array.

Example:

Input:
5
-5 1 4 -3 7
Output:
4

Explanation: The difference in index for a[4] = 7 and a[0] = -5 is (4 - 0) = 4