



Twin Arrays

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Problem

Submissions

Leaderboard

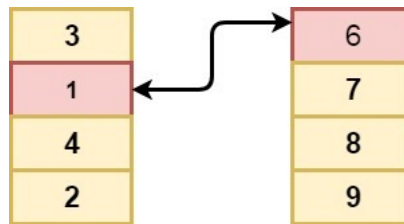
Discussions

Your submission will run against only preliminary test cases. Full test cases will run at the end of the day.

You are given two arrays **A** and **B** each containing **n** integers. You need to choose exactly **one** number from A and exactly **one** number from B such that the index of the two chosen numbers is not same and the sum of the 2 chosen values is minimum.

Your objective is to find and print this minimum value.

For example in the image shown below **1 + 6** is the minimum sum.



Input Format

The first line contains an integer **n** denoting the size of two arrays.

Each of the next two lines contains **n** space separated integers denoting array **A** and **B** respectively.

Constraints

- $2 \leq n \leq 10^5$
- $1 \leq \text{array elements} \leq 10^5$

Output Format

Print the minimum sum which can be obtained under the conditions mentioned in the problem statement.

Sample Input 0

```
5
5 4 3 2 1
1 2 3 4 5
```

Sample Output 0

```
2
```

Explanation 0

Minimum sum will be obtained by choosing number at the last index of first array and first index of the second array, i.e. **2**.

Contest ends in 6 days

Submissions: 5405

Max Score: 10

Difficulty: Easy

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C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static int twinArrays(int[] ar1, int[] ar2){
8         // Complete this function
9         int min_a = int.MaxValue, second_a = int.MaxValue, min_b = int.MaxValue, second_b = int.MaxValue;
10        bool hay_min_a = false, hay_min_b = false;
11        int indmin_a = 0, ind_second_a = 0, indmin_b = 0, ind_second_b = 0;
12        for (int i = 0; i < ar1.Length; i++)
13        {
14            if (!hay_min_a && ar1[i] < min_a)
15            {
16                min_a = ar1[i];
17                indmin_a = i;
18                hay_min_a = true;
19            }
20            else if (hay_min_a && ar1[i] < min_a)
21            {
22                second_a = min_a;
23                ind_second_a = i;
24                min_a = ar1[i];
25                indmin_a = i;
26            }
27            else if (hay_min_a && ar1[i] < second_a && ar1[i] >= min_a)
28            {
29                second_a = ar1[i];
30                ind_second_a = i;
31            }
32
33            if (!hay_min_b && ar2[i] < min_b)
34            {
35                min_b = ar2[i];
36                indmin_b = i;
37                hay_min_b = true;
38            }
39            else if (hay_min_b && ar2[i] < min_b)
40            {
41                second_b = min_b;
42                ind_second_b = i;
43                min_b = ar2[i];
44                indmin_b = i;
45            }
46            else if (hay_min_b && ar2[i] < second_b && ar2[i] >= min_b)
47            {
48                second_b = ar2[i];
49                ind_second_b = i;
50            }
51        }
52    }
53
54    //Console.WriteLine(min_a + " " + indmin_a);
55    //Console.WriteLine(second_a + " " + ind_second_a);
56
57    //Console.WriteLine(min_b + " " + indmin_b);
58    //Console.WriteLine(second_b + " " + ind_second_b);
59 }
```

```
60         if (indmin_a != indmin_b)
61         {
62             return min_a + min_b;
63         }
64
65         return Math.Min(min_a + second_b, min_b + second_a);
66
67     }
68
69     static void Main(String[] args) {
70         int n = Convert.ToInt32(Console.ReadLine());
71         string[] ar1_temp = Console.ReadLine().Split(' ');
72         int[] ar1 = Array.ConvertAll(ar1_temp, Int32.Parse);
73         string[] ar2_temp = Console.ReadLine().Split(' ');
74         int[] ar2 = Array.ConvertAll(ar2_temp, Int32.Parse);
75         int result = twinArrays(ar1, ar2);
76         Console.WriteLine(result);
77     }
78 }
79
```

Line: 65 Col: 65

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