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Test Name: Mock Test

Taken On: 4 Jun 2024 12:10:12 IST

Time Taken: 1 min 3 sec/ 10 min

Invited by: Ankush

Invited on: 4 Jun 2024 12:10:02 IST

Skills Score:

Tags Score:

- Algorithms 105/105
- Core CS 105/105
- Easy 105/105
- Problem Solving 105/105
- Search 105/105
- Sorting 105/105
- problem-solving 105/105

100%

105/105

scored in Mock Test in 1 min 3 sec on 4 Jun 2024 12:10:12 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	51 sec	105/ 105	✓

QUESTION 1

✓

Correct Answer

Score 105

Find the Median > Coding

Sorting

Search

Algorithms

Easy

problem-solving

Core CS

Problem Solving

QUESTION DESCRIPTION

The median of a list of numbers is essentially its middle element after sorting. The same number of elements occur after it as before. Given a list of numbers with an odd number of elements, find the **median**?

Example
 $arr = [5, 3, 1, 2, 4]$

The sorted array $arr' = [1, 2, 3, 4, 5]$. The middle element and the median is **3**.

Function Description

Complete the `findMedian` function in the editor below.

`findMedian` has the following parameter(s):

• `int arr[n]`: an unsorted array of integers

Returns

- `int`: the median of the array

Input Format

The first line contains the integer n , the size of `arr`.

The second line contains n space-separated integers `arr[i]`

Constraints

- $1 \leq n \leq 1000001$
- n is odd
- $-10000 \leq arr[i] \leq 10000$

Sample Input 0

```
7
0 1 2 4 6 5 3
```

Sample Output 0

```
3
```

Explanation 0

The sorted `arr` = `[0, 1, 2, 3, 4, 5, 6]`. It's middle element is at `arr[3] = 3`.

CANDIDATE ANSWER





Language used: **C#**

```
1 using System.CodeDom.Compiler;
2 using System.Collections.Generic;
3 using System.Collections;
4 using System.ComponentModel;
5 using System.Diagnostics.CodeAnalysis;
6 using System.Globalization;
7 using System.IO;
8 using System.Linq;
9 using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15
16
17 class Result
18 {
19
20     /*
21      * Complete the 'findMedian' function below.
22      *
23      * The function is expected to return an INTEGER.
24      * The function accepts INTEGER_ARRAY arr as parameter.
25      */
26
27     public static int findMedian(List<int> arr)
28     {
29         arr.Sort();
30     }
31 }
```

```

31         int returnValue = (arr.Count - 1) / 2;
32
33         return arr[returnValue];
34     }
35
36 }
37
38 class Solution
39 {
40     public static void Main(string[] args)
41     {
42         TextWriter textWriter = new
43 StreamWriter(@System.Environment.GetEnvironmentVariable("OUTPUT_PATH"),
44 true);
45
46         int n = Convert.ToInt32(Console.ReadLine().Trim());
47
48         while (n < 1 || n > 1000001 || n % 2 == 0 )
49         {
50             n = Convert.ToInt32(Console.ReadLine().Trim());
51         }
52
53         List<int> arr = Console.ReadLine().TrimEnd().Split('
54 ').ToList().Select(arrTemp => Convert.ToInt32(arrTemp)).ToList();
55
56         while (arr.Count != n)
57         {
58             arr = Console.ReadLine().TrimEnd().Split('
59 ').ToList().Select(arrTemp => Convert.ToInt32(arrTemp)).ToList();
60         }
61
62         int result = Result.findMedian(arr);
63
64         textWriter.WriteLine(result);
65
66         textWriter.Flush();
67         textWriter.Close();
68     }
69 }

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	 Success	0	0.0481 sec	22.9 KB
Testcase 2	Easy	Hidden case	 Success	35	0.0708 sec	24.4 KB
Testcase 3	Easy	Hidden case	 Success	35	0.064 sec	24.3 KB
Testcase 4	Easy	Hidden case	 Success	35	0.0669 sec	32.8 KB

No Comments