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Test Name:

Mock Test

Taken On:

27 Nov 2023 06:55:57 IST

Time Taken:

6 min 5 sec/ 10 min

Resume:

https://hackerrank-resumes.s3.amazonaws.com/7505911/orhriQxfhSxb9mP_TAqThADGaXRuQ9z9u_Yz0yh4C-Ngvwxfg02wYPirrz8wf17UBA/CVSamuelSedaLegariaEN.pdf

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Invited by:

Ankush

Invited on:

27 Nov 2023 06:55:47 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 6 min 5 sec on 27 Nov 2023 06:55:57 IST

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	5 min 58 sec	105/ 105	✓

QUESTION 1

✓

Correct Answer

Find the Median > Coding

Sorting

Search

Algorithms

Easy

problem-solving

Core CS

Problem Solving

QUESTION DESCRIPTION

Score 105

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: **Go**

```
1 package main
2
3 import (
4     "bufio"
5     "fmt"
6     "io"
7     "os"
8     "sort"
9     "strconv"
10    "strings"
11 )
12
13
14
15 /*
16  * Complete the 'findMedian' function below.
17  *
```

```

18  * The function is expected to return an INTEGER.
19  * The function accepts INTEGER_ARRAY arr as parameter.
20  */
21
22 func findMedian(arr []int32) int32 {
23     // Write your code here
24     // Sort Slice
25     sort.Slice(arr, func(i, j int) bool { return arr[i] < arr[j] })
26     // Get Mid Index
27     midIndex := len(arr) / 2
28     return arr[midIndex]
29 }
30
31 func main() {
32     reader := bufio.NewReaderSize(os.Stdin, 16 * 1024 * 1024)
33
34     stdout, err := os.Create(os.Getenv("OUTPUT_PATH"))
35     checkError(err)
36
37     defer stdout.Close()
38
39     writer := bufio.NewWriterSize(stdout, 16 * 1024 * 1024)
40
41     nTemp, err := strconv.ParseInt(strings.TrimSpace(readLine(reader)), 10,
42 64)
43     checkError(err)
44     n := int32(nTemp)
45
46     arrTemp := strings.Split(strings.TrimSpace(readLine(reader)), " ")
47
48     var arr []int32
49
50     for i := 0; i < int(n); i++ {
51         arrItemTemp, err := strconv.ParseInt(arrTemp[i], 10, 64)
52         checkError(err)
53         arrItem := int32(arrItemTemp)
54         arr = append(arr, arrItem)
55     }
56
57     result := findMedian(arr)
58
59     fmt.Fprintf(writer, "%d\n", result)
60
61     writer.Flush()
62 }
63
64 func readLine(reader *bufio.Reader) string {
65     str, _, err := reader.ReadLine()
66     if err == io.EOF {
67         return ""
68     }
69
70     return strings.TrimRight(string(str), "\r\n")
71 }
72
73 func checkError(err error) {
74     if err != nil {
75         panic(err)
76     }
77 }

```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
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Testcase 1	Easy	Sample case	✔ Success	0	0.0024 sec	3.09 KB
Testcase 2	Easy	Hidden case	✔ Success	35	0.0051 sec	3.52 KB
Testcase 3	Easy	Hidden case	✔ Success	35	0.0047 sec	5.52 KB
Testcase 4	Easy	Hidden case	✔ Success	35	0.018 sec	7.57 KB

No Comments

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