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Test Name:

Mock Test

Taken On:

13 Sep 2023 23:19:36 IST

Time Taken:

2 min 8 sec/ 10 min

Invited by:

Ankush

Invited on:

13 Sep 2023 23:19:06 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 2 min 8 sec on 13 Sep 2023 23:19:36 IST

Recruiter/Team Comments:

No Comments.

Plagiarism flagged

We have marked questions with suspected plagiarism below. Please review it in detail here -

Question Description

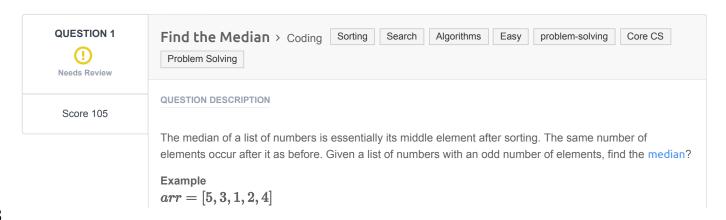
Time Taken

Score

Status

2 min 1 sec

105/ 105



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

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

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: Python 3

```
3 # Complete the 'findMedian' function below.
4 #
5 # The function is expected to return an INTEGER.
6 # The function accepts INTEGER ARRAY arr as parameter.
7 #
8
9 def findMedian(arr):
      sorted numbers = sorted(arr)
      # Calculate the length of the sorted list
       n = len(sorted numbers)
       # Check if the list has an odd or even number of elements
      if n % 2 == 1: # Odd number of elements
          median = sorted numbers[n // 2]
      else: # Even number of elements
          middle1 = sorted_numbers[n // 2 - 1]
          middle2 = sorted numbers[n // 2]
           median = (middle1 + middle2) / 2.0
       return median
24
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0446 sec	10.5 KB
Testcase 2	Easy	Hidden case	Success	35	0.1275 sec	11.3 KB
Testcase 3	Easy	Hidden case	Success	35	0.052 sec	11.9 KB
Testcase 4	Easy	Hidden case	Success	35	0.1083 sec	22.3 KB
No Comments						

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