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ALL

1

1. Find the Median

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 $arr[3] = 3$.

Language

Java 8

Autocomplete Disabled

Instructions and Tour

```
1 > import java.io.*; ...
14
15 class Result {
16
17     /*
18      * Complete the 'findMedian' function below.
19      *
20      * The function is expected to return an INTEGER.
21      * The function accepts INTEGER_ARRAY arr as
22      parameter.
23      */
24     public static int findMedian(List<Integer> arr) {
25         // Write your code here
26     }
27 }
28
29
30
31 > public class Solution { ...
```

Line: 22 Col: 2

Test Results Custom Input