

# 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  $arr[3] = 3$ .