

#### Mock Test > yehdan@msn.com

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Test Name:

**Mock Test** 

Ankush

Taken On:

30 Jul 2025 22:08:13 IST

Time Taken:

1 min 31 sec/ 10 min

Invited by: Invited on:

30 Jul 2025 22:08:06 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

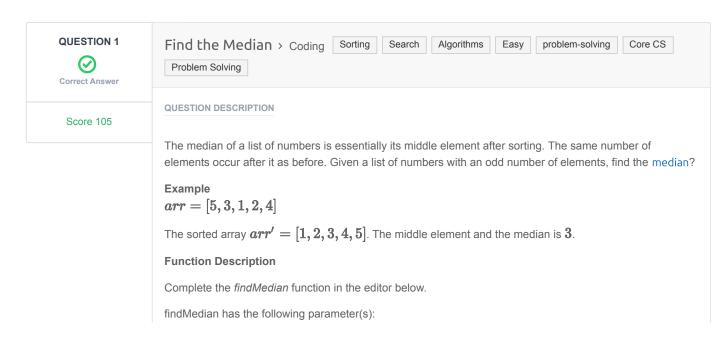
100% 105/105

scored in **Mock Test** in 1 min 31 sec on 30 Jul 2025 22:08:13 IST

## Recruiter/Team Comments:

No Comments.





• 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: C

```
2 /*
3 * Complete the 'findMedian' function below.
4 *
   * The function is expected to return an INTEGER.
   * The function accepts INTEGER ARRAY arr as parameter.
   */
8
9 int findMedian(int n, int* m) {
     int i, less, greater, equal;
      int min, max, guess, maxltguess, mingtguess;
     min = max = m[0];
14
     for (i=1 ; i<n ; i++) {
          if (m[i] < min) min = m[i];</pre>
          if (m[i]>max) max=m[i];
      }
     while (1) {
          guess = (min+max)/2;
          less = 0; greater = 0; equal = 0;
         maxltguess = min ;
         mingtguess = max ;
          for (i=0; i<n; i++) {
              if (m[i]<guess) {
                  if (m[i]>maxltguess) maxltguess = m[i] ;
               } else if (m[i]>guess) {
                  greater++;
                   if (m[i]<mingtguess) mingtguess = m[i] ;</pre>
```

```
} else equal++;
           if (less \leq (n+1)/2 && greater \leq (n+1)/2) break;
34
           else if (less>greater) max = maxltguess ;
           else min = mingtguess;
       if (less \ge (n+1)/2) return maxltguess;
       else if (less+equal >= (n+1)/2) return guess;
       else return mingtguess;
40 }
41
   TESTCASE
                                      STATUS
                                                  SCORE TIME TAKEN
                                                                       MEMORY USED
             DIFFICULTY
                           TYPE
  Testcase 1
                 Easy
                          Sample case
                                      Success
                                                    0
                                                           0.0083 sec
                                                                          7.13 KB
  Testcase 2
                 Easy
                           Hidden case
                                      Success
                                                    35
                                                           0.008 sec
                                                                          7.38 KB
  Testcase 3
                 Easy
                           Hidden case
                                      Success
                                                    35
                                                           0.0099 sec
                                                                           7.38 KB
                           Hidden case
                                       Success
                                                           0.0237 sec
                                                                           8.63 KB
  Testcase 4
                 Easy
                                                    35
No Comments
```

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