Find the Median

by HackerRank

Problem Submissions Leaderboard Discussions

In the Quicksort challenges, you sorted an entire array. Sometimes, you just need specific information about a list of numbers, and doing a full sort would be unnecessary. Can you figure out a way to use your partition code to find the *median* in an array?

Challenge
Given a list of numbers, can you find the median?

Input Format
There will be two lines of input:

- n - the size of the array
- ar - n numbers that makes up the array

Output Format
Output one integer, the median.

Constraints

- $1 \leq n \leq 1000001$
- n is odd
- $-10000 \leq x \leq 10000, x \in ar$

Sample Input

```
7
0 1 2 4 6 5 3
```

Sample Output

```
3
```

Submissions: 17325
Max Score: 35
Difficulty: Easy

Rate This Challenge:
Thanks!

More

Current Buffer (saved locally, editable) C#

```
1 using System;
```

```
using System.Collections.Generic;
using System.IO;
class Solution {
    static void Main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution
*/


        int n = int.Parse(Console.ReadLine());

            int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));

            Array.Sort(a);

            Console.WriteLine(a[a.Length / 2]);
    }
}
```

Line: 15 Col: 48

Upload Code as File Test against custom input Run Code Submit Code

Congrats, you solved this challenge!

- ✔ Test Case #0
- ✔ Test Case #1
- ✔ Test Case #2
- ✔ Test Case #3

Next Challenge