

Find the Median **■**





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

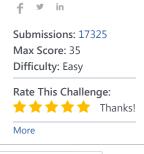
- $1 \le n \le 1000001$
- **n** is odd
- $-10000 \le x \le 10000, x \in ar$

Sample Input

7 0 1 2 4 6 5 3

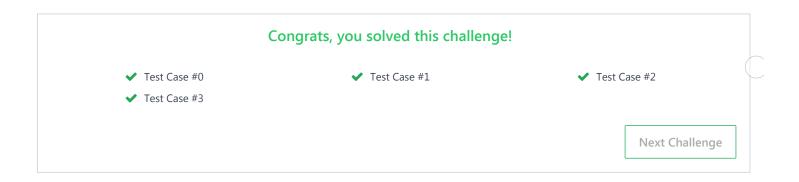
Sample Output

3





```
2 using System.Collections.Generic;
 3 using System.IO;
 4 ▼ class Solution {
        static void Main(String[] args) {
 5 ₹
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution
 6
 7
 8
 9
            int n = int.Parse(Console.ReadLine());
10
                 int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
12
13
                 Array.Sort(a);
14
15
                 Console.WriteLine(a[a.Length / 2]);
16
17
    }
                                                                                                                Line: 15 Col: 48
                       Test against custom input
1 Upload Code as File
                                                                                                      Run Code
                                                                                                                   Submit Code
```



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