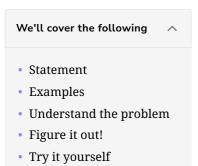
Median of Two Sorted Arrays

Try to solve the Median of Two Sorted Arrays problem.



Statement

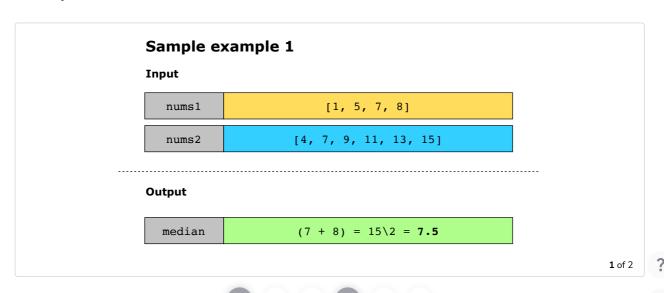
You're given two sorted integer arrays, nums1 and nums2, of size m and n, respectively. Your task is to return the median of the two sorted arrays.

The overall run time complexity should be $O(\log(m+n))$.

Constraints:

- nums1.length == m
- nums2.length == n
- $0 \le m \le 1000$
- $0 \le n \le 1000$
- $1 \le m + n \le 2000$
- $-10^6 \leq \text{nums1[i]}, \text{nums2[i]} \leq 10^6$

Examples



Tr

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

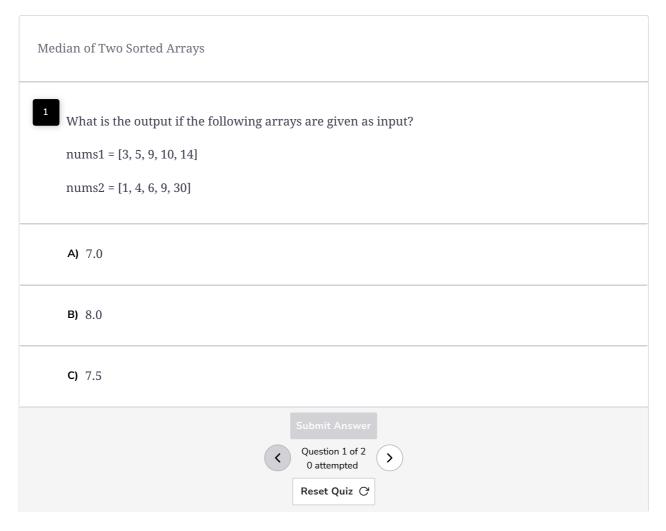
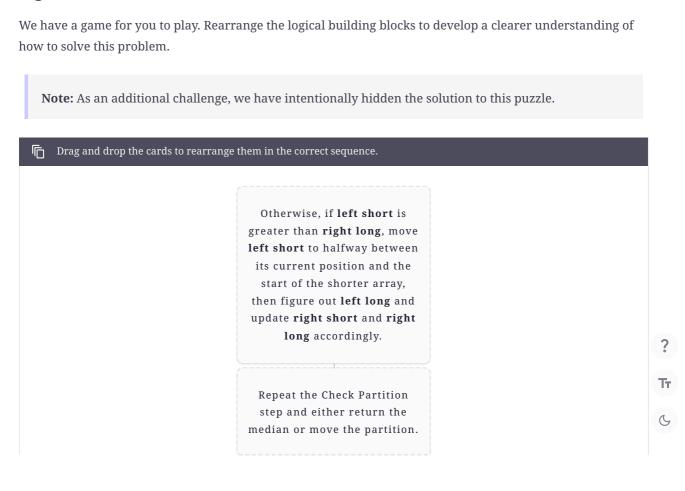


Figure it out!



Otherwise, if left long is greater than right short, move **left long** to halfway between its current position and the start of the longer array, and update right long, left short and right short accordingly. Check Partition: If left long is less than right short and left short is less than right long, we can calculate the median of the two sorted arrays as the mean of Max(left long, left short) and Min(right long, right short). Pick the middle element of the longer array as the partition location. Let's call this element left long. Let's call the very next element right long. Figure out how many elements of the shorter array need to be in the first half. Let's call this element left short. Let's call the next element right short. Reset Submit

Try it yourself

Implement your solution in the following coding playground.

Note: We have left the solution to this challenge as an exercise for you. You may try to translate the logic of the solved puzzle into a coded solution.

```
?
1 public class FindMedian{
                                                                                                                      Tτ
               public static float findMedian(int[] nums1, int[] nums2) {
         4
                  // Your code will replace this placeholder return statement
                                                                                                                      6
         5
                  return 0:
         6
```

