### Find Minimum in Rotated Sorted Array

Try to solve the Find Minimum in Rotated Sorted Array problem.



### **Statement**

You're given a rotated sorted array arr in ascending order so that after the first rotation, the last element of the array will be shifted to the starting position and so on. For the given array (containing unique elements), your task is to find the minimum element of this array.

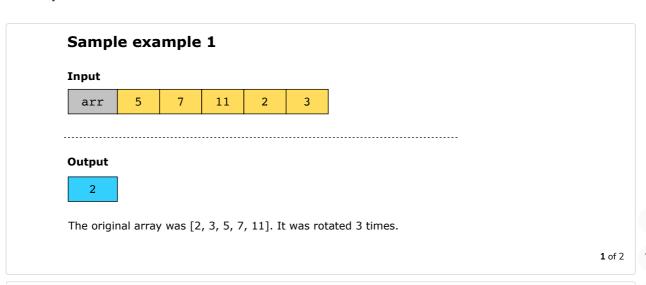
**Note**: The algorithm must be written so that it runs in  $O(\log n)$  time.

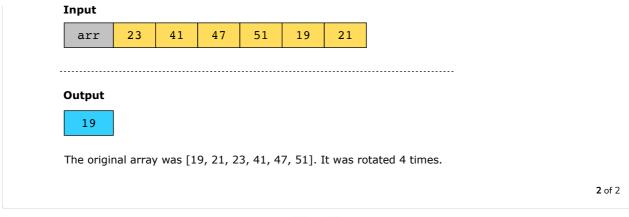
#### **Constraints:**

Let n be the total number of rotations that can be made for the given array. We can assume the following constraints:

- n == arr.length
- $1 \le n \le 5000$
- $-5000 \le arr[i] \le 5000$
- All the integers of arr are unique.
- arr is sorted and rotated between 1 and n times.

### **Examples**

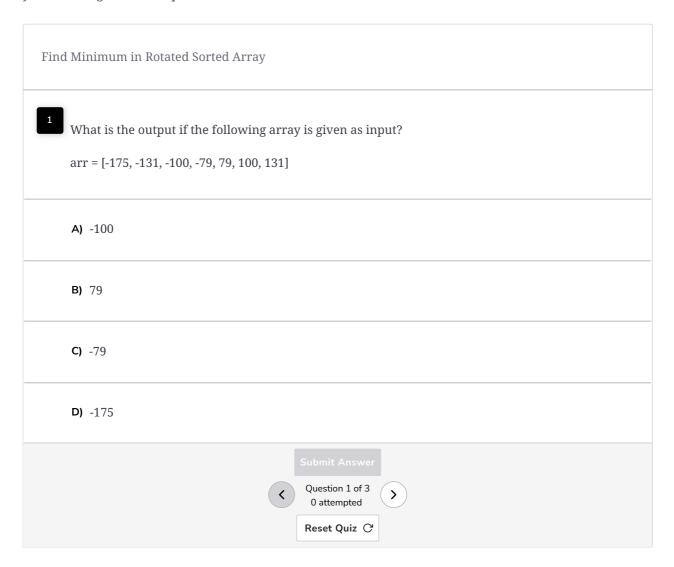




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## Understand the problem

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:



# Try it yourself

Implement your solution in the following coding playground:



