Problem | Editorial | Submissions

Sorted and Rotated Minimum

Difficulty: **Easy** Accuracy: **40.57%** Submissions: **138K+** Points: **2**

A sorted array of distinct elements **arr[]** is rotated at some unknown point, the task is to find the minimum element in it.

Examples:

Input: arr[] = [5, 6, 1, 2, 3, 4]
Output: 1
Explanation: 1 is the minimum element in the array.

Input: arr[] = [3, 1, 2]
Output: 1
Explanation: Here 1 is the minimum element.

Input: arr[] = [4, 2, 3]
Output: 2
Explanation: Here 2 is the minimum element.

Constraints:

Java (1.8) | Start Timer

```java
// } Driver Code Ends

class Solution {
    public int findMin(int[] arr) {
        int lo = 0, hi = arr.length - 1;
        while (lo < hi) {
            if (arr[lo] < arr[hi])
                return arr[lo];
            int mid = (lo + hi) / 2;
            if (arr[mid] > arr[hi])
                lo = mid + 1;
            else
                hi = mid;
        }
        return arr[lo];
    }
}
```

Custom Input | Compile & Run | Submit