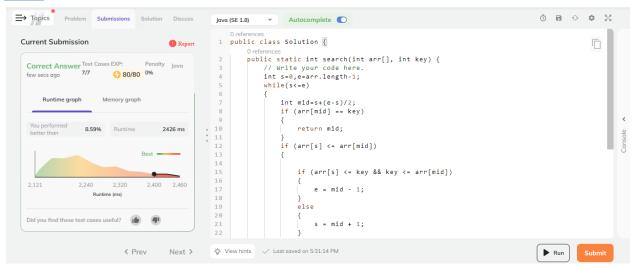
Classwork

Search In Rotated Sorted Array [Coding Ninjas]

Question Link:-

https://www.codingninjas.com/studio/problems/search-in-rotated-sorted-array 630450?leftPanel Tab=0



Java Code

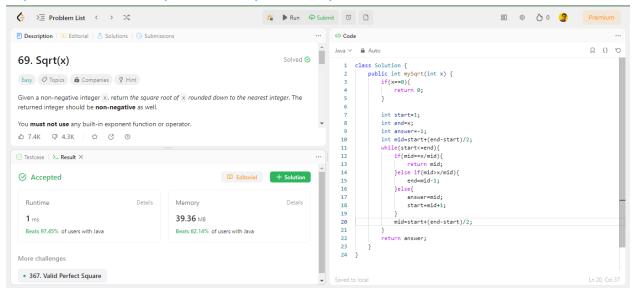
```
public class Solution {
    public static int search(int arr[], int key) {
        // Write your code here.
        int s=0, e=arr.length-1;
        while(s<=e)</pre>
             int mid=s+(e-s)/2;
             if (arr[mid] == key)
             {
                 return mid;
             }
             if (arr[s] <= arr[mid])</pre>
                 if (arr[s] <= key && key <= arr[mid])</pre>
                      e = mid - 1;
                 }
                 else
                  {
                      s = mid + 1;
```

```
}
}
else if(arr[s] >= arr[mid])
{
    if (arr[mid] <= key && key <= arr[e])
    {
        s = mid + 1;
    }
    else
    {
        e = mid - 1;
    }
}
return -1;
}</pre>
```

Sqrt(x) [LeetCode]

Question link:-

https://leetcode.com/problems/sqrtx/description/



Java Code

```
class Solution {
   public int mySqrt(int x) {
        if(x==0){
           return 0;
        }
        int start=1;
        int end=x;
        int answer=-1;
        int mid=start+(end-start)/2;
        while(start<=end) {</pre>
           if (mid==x/mid) {
                return mid;
            }else if(mid>x/mid){
                end=mid-1;
            }else{
                answer=mid;
                start=mid+1;
            mid=start+(end-start)/2;
        }
       return answer;
   }
}
```