

Problem Challenge 2

We'll cover the following

- Search in Rotated Array (medium)
- Try it yourself

Search in Rotated Array (medium)

Given an array of numbers which is sorted in ascending order and also rotated by some arbitrary number, find if a given 'key' is present in it.

Write a function to return the index of the 'key' in the rotated array. If the 'key' is not present, return -1. You can assume that the given array does not have any duplicates.

Example 1:

```
Input: [10, 15, 1, 3, 8], key = 15
Output: 1
Explanation: '15' is present in the array at index '1'.
```

Original array:	1	3	8	10	15
Array after 2 rotations:	10	15	1	3	8


Example 2:


```
Input: [4, 5, 7, 9, 10, -1, 2], key = 10
Output: 4
Explanation: '10' is present in the array at index '4'.
```


Original array:	-1	2	4	5	7	9	10
Array after 5 rotations:	4	5	7	9	10	-1	2


Try it yourself

Try solving this question here:

 Java

 Python3

 JS


 C++

```
1 class SearchRotatedArray {
2
3     public static int search(int[] arr, int key) {
4         // TODO: Write your code here
5         return -1;
6     }
7
8     public static void main(String[] args) {
9         System.out.println(SearchRotatedArray.search(new int[] { 10, 15, 1, 3, 8 }, 15));
10        System.out.println(SearchRotatedArray.search(new int[] { 4, 5, 7, 9, 10, -1, 2 }, 10));
11    }
12 }
13
```

Run

Save

Reset



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