

Suppose a sorted array is rotated at some pivot unknown to you beforehand.

(i.e., `0 1 2 4 5 6 7` might become `4 5 6 7 0 1 2`).

You are given a target value to search. If found in the array, return its index, otherwise return `-1` .

You may assume no duplicate exists in the array.

```
Input : [4 5 6 7 0 1 2] and target = 4  
Output : 0
```