class Solution:

def search(self, nums: List[int], target: int) -> int:

left = 0

right = len(nums) - 1

while left <= right:

mid = (left + right) // 2

if nums[mid] == target:

return mid

elif nums[mid] >= nums[left]:

if nums[left] <= target <= nums[mid]:

right = mid - 1

else:

left = mid + 1

else:

if nums[mid] <= target <= nums[right]:

left = mid + 1

else:

right = mid - 1

return -1