class Solution(object):

def search(self, nums, target):

"""

:type nums: List[int]

:type target: int

:rtype: int

"""

start = 0

end = len(nums)-1

while(start < end):

mid = (start + end)//2

#binary search

if (target == nums[mid]):

return mid

if(nums[start] < nums[mid]):

if(nums[start] <= target <= nums[mid]):

end = mid-1

else:

start = mid+1

else:

if(nums[mid] <= target<= nums[end]):

start = mid+1

else:

end = mid-1

return -1