Problem 04:

There is an integer array nums sorted in ascending order (with **distinct** values).

Prior to being passed to your function, nums is **possibly rotated** at an unknown pivot index k (1 <= k < nums.length) such that the resulting array is [nums[k], nums[k+1], ..., nums[n-1], nums[0], nums[1], ..., nums[k-1]] (**0-indexed**). For example, [0,1,2,4,5,6,7] might be rotated at pivot index 3 and become [4,5,6,7,0,1,2].

Given the array nums **after** the possible rotation and an integer target, return *the index of*target*if it is in*nums*, or*-1*if it is not in*nums.

You must write an algorithm with O(log n) runtime complexity.

**Example 1:**

**Input:** nums = [4,5,6,7,0,1,2], target = 0

**Output:** 4

**Example 2:**

**Input:** nums = [4,5,6,7,0,1,2], target = 3

**Output:** -1

**Example 3:**

**Input:** nums = [1], target = 0

**Output:** -1

**Constraints:**

* 1 <= nums.length <= 5000
* -104 <= nums[i] <= 104
* All values of nums are **unique**.
* nums is an ascending array that is possibly rotated.
* -104 <= target <= 104

**Code:**

class Solution {

public int search(int[] nums, int target) {

int a=-1;

for(int i = 0; i < nums.length; i++){

if(nums[i] == target){

a = i;

break;

}

}

return a;

}

}