Leet Code

Day-20 Q-03 Search in Rotated Sorted Array

Given an integer array `nums` sorted in ascending order, and an integer `target`.

Suppose that `nums` 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 should search for `target` in `nums` and if you found return its index, otherwise return `-1`.

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`
- `-10^4 <= nums[i] <= 10^4`
- All values of `nums` are **unique**.
- `nums` is guranteed to be rotated at some pivot.
- `-10^4 <= target <= 10^4`