2774. Array Upper Bound

Description

Write code that enhances all arrays such that you can call the upperBound) method on any array and it will return the last index of a given target number. number is a sorted ascending array of numbers that may contain duplicates. If the target number is not found in the array, return -1.

Example 1:

```
Input: nums = [3,4,5], target = 5
Output: 2
Explanation: Last index of target value is 2
```

Example 2:

```
Input: nums = [1,4,5], target = 2
Output: -1
Explanation: Because there is no digit 2 in the array, return -1.
```

Example 3:

```
Input: nums = [3,4,6,6,6,6,7], target = 6
Output: 5
Explanation: Last index of target value is 5
```

Constraints:

- 1 <= nums.length <= 10⁴
 -10⁴ <= nums[i], target <= 10⁴
- nums is sorted in ascending order.

Follow up: Can you write an algorithm with O(log n) runtime complexity?