Easy

You are given an array of **distinct** integers `nums`, sorted in ascending order, and an integer `target`.

Implement a function to search for `target` within `nums`. If it exists, then return its index, otherwise, return `-1`.

Your solution must run in $O(logn)$ time.

Example 1:

```
Input: nums = [-1,0,2,4,6,8], target = 4

Output: 3
```

Example 2:

```
Input: nums = [-1,0,2,4,6,8], target = 3

Output: -1
```

Constraints:

- `1 <= nums.length <= 10000`.
- `-10000 < nums[i], target < 10000`