Given an array of integers nums which is sorted in ascending order, and an integer target, write a function to search target in nums. If target exists, then return its index. Otherwise, return -1.

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

**Example 1:**

Input: nums = [-1,0,3,5,9,12], target = 9  
Output: 4  
Explanation: 9 exists in nums and its index is 4

**Example 2:**

Input: nums = [-1,0,3,5,9,12], target = 2  
Output: -1  
Explanation: 2 does not exist in nums so return -1

**Constraints:**

* 1 <= nums.length <= 104
* -104 < nums[i], target < 104
* All the integers in nums are **unique**.
* nums is sorted in ascending order.