Given a **sorted** (in ascending order) integer array nums of n elements and a target value, write a function to search target in nums. If target exists, then return its index, otherwise return -1.

**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

**Note:**

1. You may assume that all elements in nums are unique.
2. n will be in the range [1, 10000].
3. The value of each element in nums will be in the range [-9999, 9999].