Given an integer array sorted in ascending order, write a function to search target in nums.  If target exists, then return its index, otherwise return -1. **However, the array size is unknown to you**. You may only access the array using an ArrayReader interface, where ArrayReader.get(k) returns the element of the array at index k (0-indexed).

You may assume all integers in the array are less than 10000, and if you access the array out of bounds, ArrayReader.get will return 2147483647.

**Example 1:**

**Input:** array = [-1,0,3,5,9,12], target = 9

**Output:** 4

**Explanation:** 9 exists in nums and its index is 4

**Example 2:**

**Input:** array = [-1,0,3,5,9,12], target = 2

**Output:** -1

**Explanation:** 2 does not exist in nums so return -1

**Constraints:**

* You may assume that all elements in the array are unique.
* The value of each element in the array will be in the range [-9999, 9999].
* The length of the array will be in the range [1, 10^4].