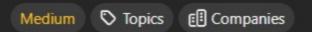
702. Search in a Sorted Array of Unknown Size Premium



This is an interactive problem.

You have a sorted array of **unique** elements and an **unknown size**. You do not have an access to the array but you can use the ArrayReader interface to access it. You can call ArrayReader.get(i) that:

- returns the value at the ith index (0-indexed) of the secret array (i.e., secret[i]), or
- returns $2^{31} 1$ if the i is out of the boundary of the array.

You are also given an integer target.

Return the index k of the hidden array where secret[k] = target or return -1 otherwise.

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

Example 1:

```
Input: secret = [-1,0,3,5,9,12], target = 9
```

Output: 4

Explanation: 9 exists in secret and its index is 4.

Example 2:

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

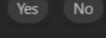
Output: -1

Explanation: 2 does not exist in secret so return -1.

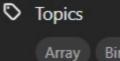
Constraints:

- 1 <= secret.length <= 10⁴
- -10⁴ <= secret[i], target <= 10⁴
- secret is sorted in a strictly increasing order.

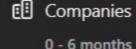
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Binary Search Interactive



Google 2

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Binary Search

Find the Index of the Large Integer 🍓 Medium

Easy

Discussion (7)