INTERVIEW PACKET



SDE - Backend



Round 1:

1. 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.
- 2. Implement arraylist without using collections.
- 3. There is a class with an attribute to its ownself and you have created two instances of the same class as obj1 and obj2. Obj.object points to obj2 and obj2.object points to obj1. Now you set obj1 and obj2 to null. Tell us the impact on the garbage collection.

Round 2:

- 1. Find the rotation point in a sorted circular array
- 2. There is a retail product live at some country and it accepts payment gateway with VISA. Now they are expanding and each country has own payment gateway. How will you make the payment API?
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- 4. Java Stream and Spring Questions

Round 3:

- 1. Explain your project and its architecture.
- 2. One of your API is performing slow, how would it can be handled?
- 3. What is load balancer?
- 4. If there are 3-4 tasks in a sprint and if you don't know one of them, how will assign priorities to the ask?
- 5. If you are given one task and it take 5 days but you are given only 3 days to do that task. How will you approach it