Problem 228: Summary Ranges

Problem Information

Difficulty: Easy
Acceptance Rate: 53.59%
Paid Only: No
Tags: Array

Problem Description

You are given a **sorted unique** integer array `nums`.

A **range** `[a,b]` is the set of all integers from `a` to `b` (inclusive).

Return _the**smallest sorted** list of ranges that **cover all the numbers in the array exactly**_. That is, each element of `nums` is covered by exactly one of the ranges, and there is no integer `x` such that `x` is in one of the ranges but not in `nums`.

Each range `[a,b]` in the list should be output as:

* `"a->b"` if `a != b` * `"a"` if `a == b`

Example 1:

Input: nums = [0,1,2,4,5,7] **Output:** ["0->2","4->5","7"] **Explanation:** The ranges are: [0,2] --> "0->2" [4,5] --> "4->5" [7,7] --> "7"

Example 2:

Input: nums = [0,2,3,4,6,8,9] **Output:** ["0","2->4","6","8->9"] **Explanation:** The ranges are: [0,0] --> "0" [2,4] --> "2->4" [6,6] --> "6" [8,9] --> "8->9"

Constraints:

* `0 <= nums.length <= 20` * `-231 <= nums[i] <= 231 - 1` * All the values of `nums` are **unique**. * `nums` is sorted in ascending order.

Code Snippets

C++:

```
class Solution {
public:
vector<string> summaryRanges(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public List<String> summaryRanges(int[] nums) {

}
}
```

Python3:

```
class Solution:
def summaryRanges(self, nums: List[int]) -> List[str]:
```