Problem 55: Jump Game

Problem Information

Difficulty: Medium
Acceptance Rate: 40.14%
Paid Only: No
Tags: Array, Dynamic Programming, Greedy

Problem Description

You are given an integer array `nums`. You are initially positioned at the array's **first index** , and each element in the array represents your maximum jump length at that position.

Return `true` _if you can reach the last index, or_`false` _otherwise_.

Example 1:

Input: nums = [2,3,1,1,4] **Output:** true **Explanation:** Jump 1 step from index 0 to 1, then 3 steps to the last index.

Example 2:

Input: nums = [3,2,1,0,4] **Output:** false **Explanation:** You will always arrive at index 3 no matter what. Its maximum jump length is 0, which makes it impossible to reach the last index.

Constraints:

* `1 <= nums.length <= 104` * `0 <= nums[i] <= 105`

Code Snippets

C++:

```
class Solution {
public:
bool canJump(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public boolean canJump(int[] nums) {

}
}
```

Python3:

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