

45. Jump Game II

Difficulty : Medium

<https://leetcode.com/problems/jump-game-ii>

You are given a **0-indexed** array of integers `nums` of length `n`. You are initially positioned at `nums[0]`.

Each element `nums[i]` represents the maximum length of a forward jump from index `i`. In other words, if you are at `nums[i]`, you can jump to any `nums[i + j]` where:

- $0 \leq j \leq \text{nums}[i]$ and
- $i + j < n$

Return *the minimum number of jumps to reach* `nums[n - 1]`. The test cases are generated such that you can reach `nums[n - 1]`.

Example 1:

Input: `nums = [2,3,1,1,4]`

Output: 2

Explanation: The minimum number of jumps to reach the last index is 2. Jump 1 step from index 0 to 1, then 3 steps to the last index.

Example 2:

Input: `nums = [2,3,0,1,4]`

Output: 2

Constraints:

- $1 \leq \text{nums.length} \leq 10^4$
- $0 \leq \text{nums}[i] \leq 1000$
- It's guaranteed that you can reach `nums[n - 1]`.