**JUMP GAME**

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*.

**CODE**

class Solution {

public:

    bool canJump(vector<int>& nums)

    {

        int maxReach = 0;

        for (int i = 0; i < nums.size(); i++)

        {

            if (i > maxReach)

            {

                return false;

            }

            maxReach = max(maxReach, i + nums[i]);

            if (maxReach >= nums.size() - 1)

            {

                return true;

            }

        }

        return true;

    }

};

**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.