Given an array of integers.

Your task is to implement a function with the following prototype:

bool consecutiveOnes(vector<int>& nums);

The function returns if all the 1s appear consecutively in nums. If nums does not contain any elements, please return true

**Note:**

- The iostream and vector libraries have been included and namespace std are being used. No other libraries are allowed.

- You can write helper functions.

- Do not use global variables in your code.

**For example:**

| **Test** | **Result** |
| --- | --- |
| vector<int> nums {0, 1, 1, 1, 9, 8};  cout << consecutiveOnes(nums); | 1 |
| vector<int> nums {0, 1, 3, 1, 9, 8};  cout << consecutiveOnes(nums); | 0 |
| vector<int> nums {0, 6, 3, 1, 9, 8};  cout << consecutiveOnes(nums); | 1 |
| vector<int> nums {};  cout << consecutiveOnes(nums); | 1 |
| vector<int> nums {0, 6, 3, 6, 9, 8};  cout << consecutiveOnes(nums); | 1 |
| vector<int> nums {0, 1, 1, 1, 9, 1,9};  cout << consecutiveOnes(nums); | 0 |