1319. Contains Duplicate II

Given an array of integers and an integer k, find out whether there are two distinct indices i and j in the array such that nums[i] = nums[j] and the **absolute** difference between i and j is at most k.

Example

Given nums = [1,2,1], k = 0, return false.

<https://www.lintcode.com/problem/contains-duplicate-ii/description>

1. #include <iostream>
2. #include <stdio.h>
3. #include <vector>
5. using namespace std;
7. bool containsNearbyDuplicate(vector<int> &nums, int k) {
8. // Write your code here
10. map<int,int> hash;
12. for(int i =0; i< nums.size(); i++) {
13. if(hash.find(nums[i]) != hash.end()) {
14. hash[nums[i]] = i - hash[nums[i]];
15. if(hash[nums[i]] <= k) return true;
16. }
17. else{
18. hash[nums[i]] = i;
19. }
20. }
22. return false;
23. }
25. int main() {


29. return 0;
30. }