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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.

way-1:map

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class Solution {

public:

bool containsNearbyDuplicate(vector<int>& nums, int k)

{

map<int,int> mm;

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

{

map<int,int>::iterator it=mm.find(nums[i]);

if(it==mm.end())

{

mm[nums[i]]=i+1;

}

else

{

if(i+1-it->second<=k)

return true;

else

mm[nums[i]]=i+1;

}

}

return false;

}

};