Contains Deplecate II

For this problem we need to check if there are two equal elements whose endices differ by at most k.

Approach: \ Hash Map (Optimal)

| They Idea; |

· Use a bash maps to store the last index when each number appeared · While iterating:

1. If the number has even veen byone and i-last Index = 1. return true

2. Otherwin, asdate its last wider in the map.

[Abouthm:]

1 Great on unordered - may last Index.

I The rate through nums with index i:

· If nums [i] exists in map:

· Eheck if i- last Inclix[mums[i]] <= k

·If true -> return tree.

Update last Inclut [nums [:7] = i.

3. Return false if no volid pair freehol.

[Complexity:1

-Time: O(u)-migliposs. Grece: O(u)-hash may storing includes of elements.