Permutations II

This problem is remiler to the basée permutations problem but require hendling deplécates to return semigne permutation.

Log Idea:

· Fort the array first so duplicates are edjacent.
· During back hacking, sky duplicates by checking:

If nums [i] == nums (i-1) and nums (i-1) is not used in

cussent recussion level skip.

Algorithm:

1. Test nums.

1. Use a used [7 bolean array to track elements in current permutation.

3. For each Molk i:

This if used [i] = = true

This if i > 08 nums (i? = nums (i-1388 ! uxed (i-17 (avoid duplicates)

4. Build permutations secusively.

[Complexity:]

·Time: O(nxn!) worst case (n! permutation, each of leigth n)

· There: O(n) recursion + O(n) used array