

67) Given a collection of numbers, `nums`, that might contain duplicates, return *all possible unique permutations in any order*.

**CODE:**

```
def permuteUnique(nums):
    nums.sort()
    result = []
    visited = [False] * len(nums)

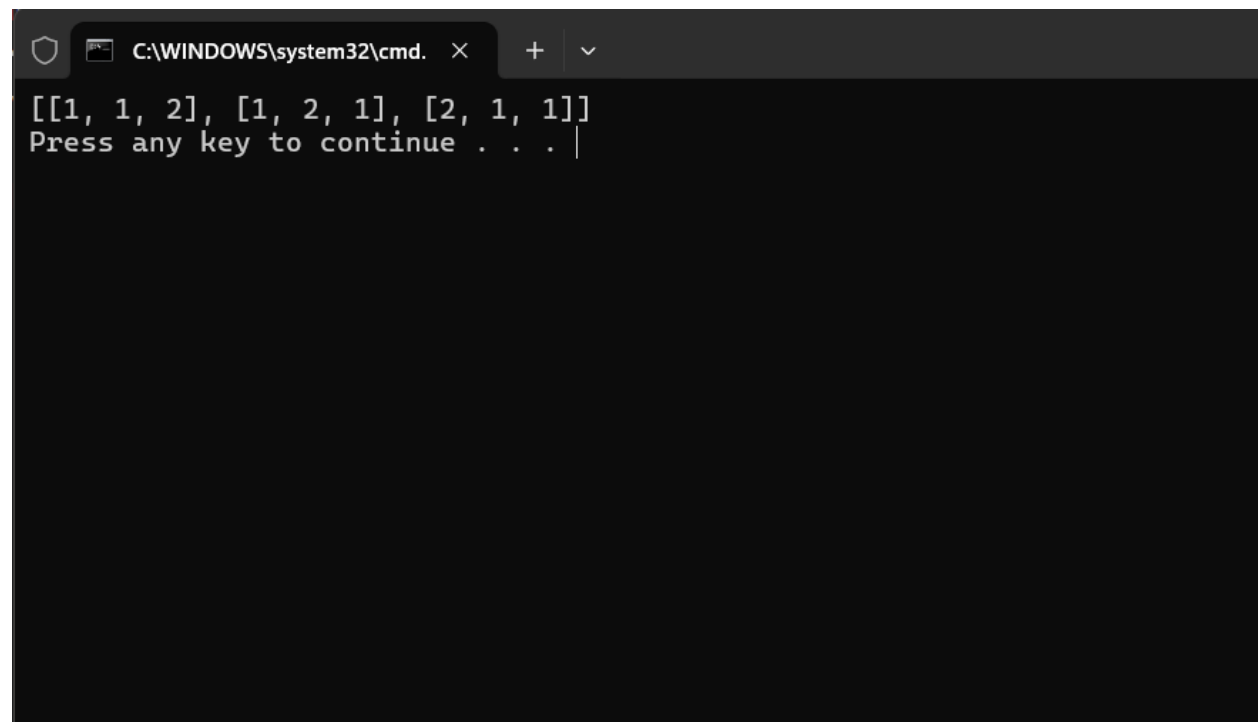
    def backtrack(current_permutation):
        if len(current_permutation) == len(nums):
            result.append(list(current_permutation))
            return

        for i in range(len(nums)):
            if visited[i] or (i > 0 and nums[i] == nums[i - 1] and not visited[i - 1]):
                continue
            visited[i] = True
            current_permutation.append(nums[i])
            backtrack(current_permutation)
            current_permutation.pop()
            visited[i] = False

    backtrack([])
    return result

a=[1,1,2]
print(permuteUnique(a))
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the Python code: '[[1, 1, 2], [1, 2, 1], [2, 1, 1]]' followed by 'Press any key to continue . . . |'.

```
C:\WINDOWS\system32\cmd.  X  +  v
[[1, 1, 2], [1, 2, 1], [2, 1, 1]]
Press any key to continue . . . |
```

**TIME COMPLEXITY :O(nlogn)**