## Q1. Permutations

Link: https://leetcode.com/problems/permutations/

Given an array nums of distinct integers, return all the possible permutations. You can return the answer in any order.

Constraints:

- 1 <= nums.length <= 6</li>-10 <= nums[i] <= 10</li>
- All the numbers of nums are unique

#### 02. Permutations II

Link: https://leetcode.com/problems/permutations-ii/

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

```
Example 1:
                               Example 2:
Input: nums = [1]
                                Input: nums = [1,2,3]
Output: [[1]]
                               Output: [[1,2,3], [1,3,2], [2,1,3], [2,3,1], [3,1,2], [3,2,1]]
Constraints:
       1 <= nums.length <= 8
      -10 <= nums[i] <= 10
                                              Example 2:
Example 1:
Input: nums = [1,1,2]
                                              Input: nums = [1,2,3]
Output: [[1,1,2], [1,2,1], [2,1,1]]
                                              Output:
                                              [[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]
```

### 03. Subsets

Link: https://leetcode.com/problems/subsets/description/

Given an integer array nums of unique elements, return all possible subsets (the power set). The solution set must not contain duplicate subsets. Return the solution in any order.

Constraints:

- 1 <= nums.length <= 10</li>-10 <= nums[i] <= 10</li>
- All the numbers of nums are unique

```
Example 1: Example 2: Input: nums = [1,2,3] Input: nums = [0] Output: [[],[1],[2],[1,2],[3],[1,3],[2,3],[1,2,3]] Output: [[],[0]]
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## Q4. Subsets II

Link: https://leetcode.com/problems/subsets-ii/

1 <= nums.length <= 10

Given an integer array nums that may contain duplicates, return all possible subsets (the power set).

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