

# 46. Permutations

Medium

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

### Example 1:

**Input:** `nums = [1,2,3]`  
**Output:** `[[1,2,3],[1,3,2],[2,1,3],[2,3,1],[3,1,2],[3,2,1]]`

### Example 2:

**Input:** `nums = [0,1]`  
**Output:** `[[0,1],[1,0]]`

### Example 3:

**Input:** `nums = [1]`  
**Output:** `[[1]]`

### Constraints:

- `1 <= nums.length <= 6`
- `-10 <= nums[i] <= 10`
- All the integers of `nums` are **unique**.

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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