

## 46. Permutations

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**.