

# 46. Permutations

## Description

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**.

