214. 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]]

PROGRAM:-

```
from itertools import permutations

def permute(nums):
   return list(permutations(nums))

# Example
nums = [1, 2, 3]
print(permute(nums))
```

OUTPUT:-

```
[(1, 2, 3), (1, 3, 2), (2, 1, 3), (2, 3, 1), (3, 1, 2), (3, 2, 1)]

=== Code Execution Successful ===
```

TIME COMPLEXITY:-O(n*N!)