



```
Код:
```

```
using System;
using System.Collections.Generic;

public class Solution
{
    public IList<IList<int>> Permute(int[] nums)
    {
}
```

```
var results = new List<IList<int>>();
        PermuteHelper(nums, 0, results);
        return results;
    }
   private void PermuteHelper(int[] nums, int start, List<IList<int>> results)
        if (start == nums.Length)
            results.Add(new List<int>(nums));
            return;
        }
        for (int i = start; i < nums.Length; i++)</pre>
            Swap(nums, start, i);
            PermuteHelper(nums, start + 1, results);
            Swap(nums, start, i); // backtrack
    }
    private void Swap(int[] nums, int i, int j)
        int temp = nums[i];
        nums[i] = nums[j];
        nums[j] = temp;
    }
}
```