46. Permutations

题目描述https://leetcode.com/problems/permutations/

> 给定一个数组，求这个数组的全排列

解题思路：

排列组合模板

代码：

```cpp
class Solution {
public:
    void getPer(vector<int>& n, vector<vector<int>> &res, vector<int> num, vector<bool> v){
        if(num.size() == n.size()){
            res.push_back(num);
            return;
        }
        for(int i = 0; i < n.size(); i++){
            if(!v[i]){
                num.push_back(n[i]);
                v[i] = true;
                getPer(n, res, num, v);
                num.pop_back();
                v[i] = false;
            }
        }
    }
    vector<vector<int>> permute(vector<int>& n) {
        vector<vector<int> >  res;
        vector<int> num;
        vector<bool> v(n.size(), false);
        getPer(n, res, num, v);
        return res;
    }
};
```