* Find all permutations of nums

* nums: [1,2,3]

```
void DFS(vector<vector<int>> &ans, vector<int>& nums, int start) {
// DFS in this problem is not intuitive, it's better to see the graph in github repo.
// TC of this function itselt: O(N)
// start is the pivot index which nums[start]
if (start == nums.size()) {
    ans.push_back(nums);
    return;
}
for (size_t i = start; i < nums.size(); i++) {
    swap(nums[start], nums[i]); // original permutation
    DFS(ans, nums, start + 1); // When all permutations have been exhausted,
    // return to the current scope and begin backtracking through other permutations.
    swap(nums[start], nums[i]); // resumes to original permutation</pre>
```

