

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <vector>
4 using namespace std;
5
6 void permutationsHelper(int i, vector<int> *array,
7                         vector<vector<int>> *permutations);
8 void swap(vector<int> *array, int i, int j);
9
10 // O(n*n!) time | O(n*n!) space
11 vector<vector<int>> getPermutations(vector<int> array) {
12     vector<vector<int>> permutations;
13     permutationsHelper(0, &array, &permutations);
14     return permutations;
15 }
16
17 void permutationsHelper(int i, vector<int> *array,
18                         vector<vector<int>> *permutations) {
19     if (i == array->size() - 1) {
20         permutations->push_back(*array);
21     } else {
22         for (int j = i; j < array->size(); j++) {
23             swap(array, i, j);
24             permutationsHelper(i + 1, array, permutations);
25             swap(array, i, j);
26         }
27     }
28 }
29
30 void swap(vector<int> *array, int i, int j) {
31     int tmp = array->at(i);
32     array->at(i) = array->at(j);
33     array->at(j) = tmp;
34 }
35
```

Solution 1

Solution 2

Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 vector<vector<int>> getPermutations(vector<int> array) {
5     // Write your code here.
6     return {};
7 }
8
```

Custom Output

Raw Output

Submit Code

Run or submit code when you're ready.