Solution 2

Solution 1

Run Code

Our Solution(s) Run Code

```
Your Solutions
```

12px

```
Solution 1 Solution 2 Solution 3
```

```
#include <vector>
using namespace std;

vector<vector<int>> getPermutations(vector<int> array) {
   // Write your code here.
   return {};
}
```

```
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    #include <vector>
    using namespace std;
     void permutationsHelper(vector<int> array, vector<int> currentPermutation,
                              vector<vector<int>> *permutations);
    // Upper Bound: O(n^2*n!) time | O(n*n!) space
    // Roughly: O(n*n!) time | O(n*n!) space
    vector<vector<int>> getPermutations(vector<int> array) {
12
      vector<vector<int>>> permutations;
      permutationsHelper(array, {}, &permutations);
13
14
       return permutations;
15
16
17
     void permutationsHelper(vector<int> array, vector<int> currentPermutation,
                             vector<vector<int>> *permutations) {
18
       if (array.size() == 0 && currentPermutation.size() > 0) {
19
        permutations->push_back(currentPermutation);
20
       } else {
22
         for (int i = 0; i < array.size(); i++) {
          vector<int> newArray;
          newArray.insert(newArray.end(), array.begin(), array.begin() + i);
newArray.insert(newArray.end(), array.begin() + i + 1, array.end());
24
25
26
           vector<int> newPermutation = currentPermutation;
27
           newPermutation.push_back(array[i]);
28
           permutationsHelper(newArray, newPermutation, permutations);
29
30
31
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.