Our Solution(s)

Run Code

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Your Solutions Run Code
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Solution 1
             Solution 2
   // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
   using namespace std;
 6 void permutationsHelper(vector<int> array, vector<int> currentPc
                            vector<vector<int>> *permutations);
9 // Upper Bound: O(n^2*n!) time | O(n*n!) space
10 // Roughly: O(n*n!) time | O(n*n!) space
11 vector<vector<int>> getPermutations(vector<int> array) {
12
     vector<vector<int>> permutations;
     permutationsHelper(array, {}, &permutations);
13
14
     return permutations;
15
16
   void permutationsHelper(vector<int> array, vector<int> currentPc
17
                           vector<vector<int>> *permutations) {
18
19
      if (array.size() == 0 && currentPermutation.size() > 0) {
20
       permutations->push_back(currentPermutation);
21
     } else {
        for (int i = 0; i < array.size(); i++) {</pre>
23
         vector<int> newArray;
24
         newArray.insert(newArray.end(), array.begin(), array.begin
25
         newArray.insert(newArray.end(), array.begin() + i + 1, arr
26
         vector<int> newPermutation = currentPermutation;
27
         newPermutation.push_back(array[i]);
28
         permutationsHelper(newArray, newPermutation, permutations)
29
30
31 }
32
```

```
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  }
```

