Prompt | Scratchpad | Our Solution(s) | Video Explanation | Run Code

Solution 1 | Solution 2

```
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using System.Collections.Generic;

public class Program {
  // O(n*n!) time | O(n*n!) space
  public static List<List<int> > GetPermutations(List<int> array) {
    List<List<int> > permutations = new List<List<int> >();
    GetPermutations(0, array, permutations);
    return permutations;
  }

  public static void GetPermutations(int i, List<int> array, List<List<int> > per
    if (i == array.Count - 1) {
      permutations.Add(new List<int>(array));
    } else {
      for (int j = i; j < array.Count; j++) {
        swap(array, i, j);
        GetPermutations(i + 1, array, permutations);
        swap(array, i, j);
      }
    }
  }

  public static void swap(List<int> array, int i, int j) {
    int tmp = array[i];
    array[i] =  array[j];
    array[j] =  tmp;
  }
}

```

Your Solutions | Run Code

Solution 1 | Solution 2 | Solution 3

```
using System.Collections.Generic;

public class Program {
  public static List<List<int> > GetPermutations(List<int> array) {
    // Write your code here.
    return null;
  }
}

```

Custom Output | Raw Output | Submit Code

Run or submit code when you're ready.