AlgoExpert

Quad Layout

Sublime

Solution 1 Solution 2 Solution 3

Monokai

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Prompt

Solution 1

Scratchpad

Solution 2

Our Solution(s)

Video Explanation Run Code

Your Solutions

12px

Run Code

```
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    using System.Collections.Generic;
    public class Program {
      // O(n*2^n) time | O(n*2^n) space
      public static List<List<int> > Powerset(List<int> array) {
        return Powerset(array, array.Count - 1);
      public static List<List<int> > Powerset(List<int> array, int idx) {
12
        if (idx < 0) {
13
         List<List<int> > emptySet = new List<List<int> >();
          emptySet.Add(new List<int>());
14
         return emptySet;
16
17
        int ele = array[idx];
        List<List<int> > subsets = Powerset(array, idx - 1);
18
19
        int length = subsets.Count;
        for (int i = 0; i < length; i++) {
20
         List<int> currentSubset = new List<int>(subsets[i]);
22
         currentSubset.Add(ele);
          subsets.Add(currentSubset);
24
25
        return subsets;
26
27
```

```
1 using System.Collections.Generic;
   public class Program {
    public static List<List<int> > Powerset(List<int> array) {
      // Write your code here.
       return null;
```

Run or submit code when you're ready.