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

Solution 1 | Solution 2

```
1  // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3  using System.Collections.Generic;
4
5  public class Program {
6    // O(n*2^n) time | O(n*2^n) space
7    public static List<List<int> > Powerset(List<int> array) {
8      List<List<int> > subsets = new List<List<int> >();
9      subsets.Add(new List<int>());
10     foreach (int ele in array) {
11       int length = subsets.Count;
12       for (int i = 0; i < length; i++) {
13         List<int> currentSubset = new List<int>(subsets[i]);
14         currentSubset.Add(ele);
15         subsets.Add(currentSubset);
16       }
17     }
18     return subsets;
19   }
20 }
21
```

Your Solutions | Run Code

Solution 1 | Solution 2 | Solution 3

```
1  using System.Collections.Generic;
2
3  public class Program {
4    public static List<List<int> > Powerset(List<int> array) {
5      // Write your code here.
6      return null;
7    }
8  }
9
```

Custom Output | Raw Output | Submit Code

Run or submit code when you're ready.