

Our Solution(s)		Run Code
Solution 1	Solution 2	
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 import java.util.*; 4 5 class Program { 6 // O(n*2^n) time O(n*2^n) space 7 public static List<List<Integer>> powerset(List<Integer> array) { 8 return powerset(array, array.size() - 1); 9 } 10 11 public static List<List<Integer>> powerset(List<Integer> array, int idx) { 12 if (idx < 0) { 13 List<List<Integer>> emptySet = new ArrayList<List<Integer>>(); 14 emptySet.add(new ArrayList<Integer>()); 15 return emptySet; 16 } 17 int ele = array.get(idx); 18 List<List<Integer>> subsets = powerset(array, idx - 1); 19 int length = subsets.size(); 20 for (int i = 0; i < length; i++) { 21 List<Integer> currentSubset = new ArrayList<Integer>(subsets.get(i)); 22 currentSubset.add(ele); 23 subsets.add(currentSubset); 24 } 25 return subsets; 26 } 27 } 28</pre>		

Your Solutions			Run Code
Solution 1	Solution 2	Solution 3	
<pre>1 import java.util.*; 2 3 class Program { 4 public static List<List<Integer>> powerset(List<Integer> array) { 5 // Write your code here. 6 return null; 7 } 8 } 9</pre>			

```
1 class Program {
2     static void Main() {
3         Console.WriteLine("Hello, World!");
4         Console.WriteLine("Hello, World!");
5         Console.WriteLine("Hello, World!");
6     }
7 }
8
9 class Program {
10    static void Main() {
11        Console.WriteLine("Hello, World!");
12        Console.WriteLine("Hello, World!");
13        Console.WriteLine("Hello, World!");
14        Console.WriteLine("Hello, World!");
15    }
16 }
17
18 class Program {
19    static void Main() {
20        Console.WriteLine("Hello, World!");
21        Console.WriteLine("Hello, World!");
22    }
23 }
```

Run or submit code when you're ready.