Our Solution(s)   Run Code

Solution 1   **Solution 2**

```java
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
```

Your Solutions   Run Code

Solution 1   **Solution 2**   **Solution 3**

```java
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
```

Custom Output   **Raw Output**   Submit Code

```java
1   import java.util.*;
2
3   class Program {
4     public static List<List<Integer>> powerset(List<Integer> array) {
```

Run or submit code when you're ready.