

Our Solution(s)Run Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n * 2^n) time | O(n * 2^n) space
5     func powerset(array: [Int], index: Int? = nil) -> [[Int]] {
6         var index = index
7
8         if index == nil {
9             index = array.count - 1
10        }
11
12        if index! < 0 {
13            return [[]]
14        }
15
16        let element = array[index!]
17        var subsets = powerset(array: array, index: index! - 1)
18        let length = subsets.count
19
20        for i in 0 ..< length {
21            let currentSubset = subsets[i]
22            subsets.append(currentSubset + [element])
23        }
24
25        return subsets
26    }
27 }
28
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 class Program {
2     func powerset(array: [Int], index: Int? = nil) -> [[Int]] {
3         // Write your code here.
4         return []
5     }
6 }
7
```

Run or submit code when you're ready.

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