

PromptScratchpadOur Solution(s)Video ExplanationRun Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // Upper Bound: O(n^2 * n!) time | O(n * n!) space
5     // Roughly: O(n * n!) time | O(n * n!) space
6     func permutations(array: inout [Int]) -> [[Int]] {
7         var permutations = [[Int]]()
8         permutationsHelper(array: array, currentPermutation: [], permutations: &permutations)
9
10        return permutations
11    }
12
13    func permutationsHelper(array: [Int], currentPermutation: [Int], permutations: inout [[Int]]) {
14        if array.count == 0, currentPermutation.count > 0 {
15            permutations.append(currentPermutation)
16        } else {
17            for i in 0 ..< array.count {
18                let newArray = Array(array.prefix(upTo: i) + array.suffix(from: i + 1))
19                let newPermutation = currentPermutation + [array[i]]
20
21                permutationsHelper(array: newArray, currentPermutation: newPermutation, permutations: &permutations)
22            }
23        }
24    }
25 }
26
```

Your SolutionsRun Code

Solution 1Solution 2Solution 3

```
1 class Program {
2     func permutations(array: inout [Int]) -> [[Int]] {
3         // Write your code here.
4         return []
5     }
6 }
7
```

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.