Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
       // Average: O(n^2) time | O(n^2) space
4
       // Worst: O(n^3) time | O(n^2) space
       func fourNumberSum(array: [Int], targetSum: Int) -> [[Int]] {
           var allPairSums = [Int: [[Int]]]()
9
           var quadruplets = [[Int]]()
10
11
           for i in 1 ... array.count - 1 \{
12
               for j in i + 1 ...
                   let currentSum = array[i] + array[j]
14
                   let difference = targetSum - currentSum
                   if allPairSums.keys.contains(difference) {
16
17
                       for pair in allPairSums[difference]! {
18
                           quadruplets.append(pair + [array[i], array[j]]
19
20
21
               }
22
23
               for k in 0 ... i {
                   let currentSum = array[k] + array[i]
26
                   if !allPairSums.keys.contains(currentSum) {
27
                       allPairSums[currentSum] = [[array[k], array[i]]]
28
                    } else {
29
                       allPairSums[currentSum]!.append([array[k], array[i
30
31
32
```

```
class Program {
  func fourNumberSum(array: [Int], targetSum: Int) -> [[Int]] {
    // Write your code here.
    return []
}
}
```

33

Run or submit code when you're ready.

Control for the P. L. C. Communication of

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