AlgoExpert Quad Layout Go 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 package main
5 // Average: O(n^2) time | O(n^2) space
 6 // Worst: O(n^3) time | O(n^2) space
 7 func FourNumberSum(array []int, target int) [][]int {
    allPairSums := map[int][][]int{}
     quadruplets := [][]int{}
    for i := 1; i < len(array)-1; i++ {</pre>
       for j := i + 1; j < len(array); j++ {</pre>
11
12
         currentSum := array[i] + array[j]
13
         difference := target - currentSum
         if pairs, found := allPairSums[difference]; found {
14
15
           for _, pair := range pairs {
             newquad := append(pair, array[i], array[j])
16
17
             quadruplets = append(quadruplets, newquad)
18
19
20
21
        for k := 0; k < i; k++ {
         currentSum := array[i] + array[k]
22
23
          allPairSums[currentSum] = append(allPairSums[currentSum], \ [] \\ int \{array[k], \ array[i]\})
24
25
26
     return quadruplets
27 }
28
```