

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # Average: O(n^2) time | O(n^2) space
4 # Worst: O(n^3) time | O(n^2) space
5 def fourNumberSum(array, targetSum):
6     allPairSums = {}
7     quadruplets = []
8     for i in range(1, len(array) - 1):
9         for j in range(i + 1, len(array)):
10             currentSum = array[i] + array[j]
11             difference = targetSum - currentSum
12             if difference in allPairSums:
13                 for pair in allPairSums[difference]:
14                     quadruplets.append(pair + [array[i], array[j]])
15     for k in range(0, i):
16         currentSum = array[i] + array[k]
17         if currentSum not in allPairSums:
18             allPairSums[currentSum] = [[array[k], array[i]]]
19         else:
20             allPairSums[currentSum].append([array[k], array[i]])
21     return quadruplets
22
```

Solution 1 Solution 2 Solution 3

```
1 def fourNumberSum(array, targetSum):
2     # Write your code here.
3     pass
4
```

Our Tests

Custom Output

Submit Code

