Solution 1

Our Solution(s)

Run Code

```
Your Solutions
```

utions Run Code

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
   // Average: 0(n^2) time | 0(n^2) space
 6 // Worst: O(n^3) time | O(n^2) space
   class Program {
     public static List<Integer[]> fourNumberSum(int[] array, int target
       Map<Integer, List<Integer[]>> allPairSums = new HashMap<>();
10
        List<Integer[]> quadruplets = new ArrayList<Integer[]>();
11
        for (int i = 1; i < array.length - 1; i++) {
          for (int j = i + 1; j < array.length; j++) \{
12
           int currentSum = array[i] + array[j];
           int difference = targetSum - currentSum;
14
15
           if (allPairSums.containsKey(difference)) {
16
             for (Integer[] pair : allPairSums.get(difference)) {
17
                Integer[] newQuadruplet = {pair[0], pair[1], array[i], arr
18
                quadruplets.add(newQuadruplet);
19
20
21
          for (int k = 0; k < i; k++) {
           int currentSum = array[i] + array[k];
           Integer[] pair = {array[k], array[i]};
           if (!allPairSums.containsKey(currentSum)) {
26
             List<Integer[]> pairGroup = new ArrayList<Integer[]>();
27
             pairGroup.add(pair);
28
             allPairSums.put(currentSum, pairGroup);
29
30
             allPairSums.get(currentSum).add(pair);
31
32
33
```

```
solution 1  Solution 2  Solution 3

import java.util.*;

class Program {
  public static List<Integer[]> fourNumberSum(int[] array, int targetS
  // Write your code here.
  return null;
}

8 }
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

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