Solution 1

Solution 1 Solution 2 Solution 3

Our Solution(s) Run

```
Run Code Your So
```

14px

```
Your Solutions Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   // Average: 0(n^2) time | 0(n^2) space
   // Worst: 0(n^3) time | 0(n^2) space
 5 function fourNumberSum(array, targetSum) {
     const allPairSums = {};
     const quadruplets = [];
     for (let i = 1; i < array.length - 1; i++) {</pre>
       for (let j = i + 1; j < array.length; j++) \{
9
10
         const currentSum = array[i] + array[j];
11
         const difference = targetSum - currentSum;
12
         if (difference in allPairSums) {
13
           for (const pair of allPairSums[difference]) {
14
             quadruplets.push(pair.concat([array[i], array[j]]));
16
         }
17
       for (let k = 0; k < i; k++) {
18
         const currentSum = array[i] + array[k];
19
20
         if (!(currentSum in allPairSums)) {
          allPairSums[currentSum] = [[array[k], array[i]]];
21
22
           allPairSums[currentSum].push([array[k], array[i]]);
25
26
27
     return quadruplets;
28 }
29
30 exports.fourNumberSum = fourNumberSum;
31
```

\_\_\_\_\_\_

```
function fourNumberSum(array, targetSum) {
   // Write your code here.
}

// Do not edit the line below.
exports.fourNumberSum = fourNumberSum;
```

Run or submit code when you're ready.