Solution 1

Solution 1

Solution 2

Our Solution(s)

Run Code

```
Your Solutions Run Code
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
4 #include <unordered_map>
 5 #include <algorithm>
 6 using namespace std;
   // Average: O(n^2) time | O(n^2) space
   // Worst: O(n^3) time | O(n^2) space
10 vector<vector<int>> fourNumberSum(vector<int>> array, int targetSum) {
11
     unordered_map<int, vector<vector<int>>>> allPairSums;
     vector<vector<int>> quadruplets{};
12
     for (int i = 1; i < array.size() - 1; i++) {</pre>
        for (int j = i + 1; j < array.size(); j++) {</pre>
14
15
         int currentSum = array[i] + array[j];
16
          int difference = targetSum - currentSum;
17
          if (allPairSums.find(difference) != allPairSums.end()) {
18
           for (vector<int> pair : allPairSums[difference]) {
19
             pair.push_back(array[i]);
20
             pair.push_back(array[j]);
21
             quadruplets.push_back(pair);
24
        for (int k = 0; k < i; k++) {
26
          int currentSum = array[i] + array[k];
27
          if (allPairSums.find(currentSum) == allPairSums.end()) {
28
           allPairSums[currentSum] = vector<vector<int>>>{{array[k], array
29
30
           allPairSums[currentSum].push_back(vector<int>{array[k], array[
31
32
33
```

```
#include <vector>
using namespace std;

vector<vector<int>> fourNumberSum(vector<int> array, int targetSum) {
   // Write your code here.
   return {};
}
```

Solution 3

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

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