

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <vector>
4 #include <algorithm>
5 using namespace std;
6
7 // O(n^2) time | O(n) space
8 vector<vector<int>> threeNumberSum(vector<int> array, int targetSum) {
9     sort(array.begin(), array.end());
10    vector<vector<int>> triplets;
11    for (int i = 0; i < array.size() - 2; i++) {
12        int left = i + 1;
13        int right = array.size() - 1;
14        while (left < right) {
15            int currentSum = array[i] + array[left] + array[right];
16            if (currentSum == targetSum) {
17                triplets.push_back({array[i], array[left], array[right]});
18                left++;
19                right--;
20            } else if (currentSum < targetSum) {
21                left++;
22            } else if (currentSum > targetSum) {
23                right--;
24            }
25        }
26    }
27    return triplets;
28 }
29
```

Solution 1 Solution 2 Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 vector<vector<int>> threeNumberSum(vector<int> array, int targetSum) {
5     // Write your code here.
6     return {};
7 }
8
```

Run or submit code when you're ready.