

Solution 1	Solution 2	Solution 3
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```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.Arrays;
4
5 class Program {
6     // O(nlog(n)) | O(1) space
7     public static int[] twoNumberSum(int[] array, int targetSum) {
8         Arrays.sort(array);
9         int left = 0;
10        int right = array.length - 1;
11        while (left < right) {
12            int currentSum = array[left] + array[right];
13            if (currentSum == targetSum) {
14                return new int[] {array[left], array[right]};
15            } else if (currentSum < targetSum) {
16                left++;
17            } else if (currentSum > targetSum) {
18                right--;
19            }
20        }
21        return new int[0];
22    }
23 }
24
```

Solution 1	Solution 2	Solution 3
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```
1 class Program {
2     public static int[] twoNumberSum(int[] array, int targetSum) {
3         // Write your code here.
4         return null;
5     }
6 }
7
```

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```

10  self.expected = ProgramBuilderTest(expected = 25, 35, 45)
11  ProgramBuilderTest()
12  self.expected = expectedTest, expectedTest
13  }
14
15  @test
16  def testExpected() {
17    self.expected = 25, 35
18    self.expected = ProgramBuilderTest(25, 35, 45, 55)
19    ProgramBuilderTest()
20    self.expected = expectedTest, expectedTest
21  }
22
23  @test
24  def testExpected() {

```

Run or submit code when you're ready.