AlgoExpert

Quad Layout

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Sublime

Monokai

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Our Solution(s)

Run Code

Your Solutions

12px

Run Code

```
Solution 1
```

35

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    #include <vector>
    #include <algorithm>
    #include <climits>
    using namespace std;
    // O(nlog(n) + mlog(m)) time | O(1) space
    vector<int> smallestDifference(vector<int> arrayOne, vector<int> arrayTwo) {
      sort(arrayOne.begin(), arrayOne.end());
      sort(arrayTwo.begin(), arrayTwo.end());
      int idxOne = 0;
      int idxTwo = 0;
13
      int smallest = INT_MAX;
14
      int current = INT_MAX;
16
      vector<int> smallestPair;
17
      while (idxOne < arrayOne.size() && idxTwo < arrayTwo.size()) {</pre>
        int firstNum = arrayOne[idxOne];
18
19
        int secondNum = arrayTwo[idxTwo];
        if (firstNum < secondNum) {</pre>
20
         current = secondNum - firstNum;
22
          idxOne++:
        } else if (secondNum < firstNum) {
24
          current = firstNum - secondNum;
25
          idxTwo++;
26
        } else {
27
          return vector<int>{firstNum, secondNum};
28
29
        if (smallest > current) {
30
          smallest = current;
          smallestPair = {firstNum, secondNum};
32
33
34
      return smallestPair;
```

```
Solution 1 Solution 2 Solution 3
```

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

vector<int> smallestDifference(vector<int> arrayOne, vector<int> arrayTwo) {
   // Write your code here.
   return {};
}
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.