AlgoExpert

Quad Layout

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Sublime

Monokai

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Our Solution(s) Scratchpad

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Your Solutions

Run Code

```
Solution 1
```

Prompt

Video Explanation Run Code

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Solution 1 Solution 2 Solution 3
```

```
1 public class Program {
    public static int[] SmallestDifference(int[] arrayOne, int[] arrayTwo) {
      // Write your code here.
       return null;
```

```
using System;
    public class Program {
      // O(nlog(n) + mlog(m)) time | O(1) space
      public static int[] SmallestDifference(int[] arrayOne, int[] arrayTwo) {
        Array.Sort(arrayOne);
         Array.Sort(arrayTwo);
         int idxOne = 0;
        int idxTwo = 0;
12
         int smallest = Int32.MaxValue;
13
         int current = Int32.MaxValue;
         int[] smallestPair = new int[2];
14
        while (idxOne < arrayOne.Length && idxTwo < arrayTwo.Length) {</pre>
16
          int firstNum = arrayOne[idxOne];
           int secondNum = arrayTwo[idxTwo];
17
           if (firstNum < secondNum) {</pre>
18
19
           current = secondNum - firstNum;
20
            idxOne++;
           } else if (secondNum < firstNum) {</pre>
            current = firstNum - secondNum;
22
            idxTwo++;
24
25
           } else {
            return new int[] {firstNum, secondNum};
26
27
           \textbf{if} \text{ (smallest > current) } \{
28
             smallest = current;
29
             smallestPair = new int[] {firstNum, secondNum};
30
32
         return smallestPair;
33
34 }
35
```

Custom Output Raw Output Submit Code

Run or submit code when you're ready.