AlgoExpert

**Quad Layout** 

12px

Sublime

Monokai

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Our Solution(s) Run

```
Run Code
```

Your Solutions

Run Code

```
Solution 1
```

30 31 32

return smallestPair;

```
_{\rm 1} // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
    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;
        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];
17
          int secondNum = arrayTwo[idxTwo];
          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
          if (smallest > current) {
28
            smallest = current;
29
            smallestPair = new int[] {firstNum, secondNum};
```

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

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

Custom Output Raw Output Submit Code

Run or submit code when you're ready.