Our Solution(s)

Solution 1

Run Code

```
Your Solutions Run Code
```

Sublime

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.Arrays;
 5 class Program {
     // O(nlog(n) + mlog(m)) time | O(1) space
     public static int[] smallestDifference(int[] arrayOne, int[] ;
       Arrays.sort(arrayOne);
9
      Arrays.sort(arrayTwo);
10
      int idxOne = 0;
11
      int idxTwo = 0;
12
      int smallest = Integer.MAX_VALUE;
13
       int current = Integer.MAX_VALUE;
14
       int[] smallestPair = new int[2];
15
       while (idxOne < arrayOne.length && idxTwo < arrayTwo.length)</pre>
16
         int firstNum = arrayOne[idxOne];
17
         int secondNum = arrayTwo[idxTwo];
18
         if (firstNum < secondNum) {</pre>
19
           current = secondNum - firstNum;
20
           idxOne++:
21
         } else if (secondNum < firstNum) {</pre>
           current = firstNum - secondNum;
23
           idxTwo++;
24
         } else {
25
           return new int[] {firstNum, secondNum};
26
27
         if (smallest > current) {
28
           smallest = current;
29
            smallestPair = new int[] {firstNum, secondNum};
30
31
32
        return smallestPair;
33
```

