```java
1 package IntersectionOfTwoArrays;
2 import java.util.*;
3
4 public class ArrayIntersection {
5
6     public static int[] sumElement(int[] x, int intersect)
7     {
8         int[] output = Arrays.copyOf(x, x.length+1);
9         output[x.length] = intersect;
10         return output;
11     }
12
13     public static int[] IntersectElement(int[] y, int[] z)
14     {
15         int[] inter = {};
16         int i = 0, j = 0;
17
18         while(i<y.length && j<z.length)
19         {
20             if(y[i] < z[j])
21             {
22                 i++;
23             }
24             else if(y[i] == z[j])
25             {
26                 inter = sumElement(inter, y[i]);
27                 i++;
28                 j++;
29             }
30             else
31             {
32                 j++;
33             }
34         }
35         return inter;
36     }
37
38     public static void main(String args[])
39     {
40         int[] y = {56,70,8,2,10,700,1000,23,13};
41         int[] z = {2,500,70,24,13,8,80,1};
42         ArrayIntersection aint = new ArrayIntersection();
43
44         Arrays.sort(y);
45         Arrays.sort(z);
46
47         int[] output = ArrayIntersection.IntersectElement(y,z);
48         System.out.println("The result of intersection is: " + Arrays.toString(output));
49     }
50
51 }
52
```