Exercise 1.4.12. Write a program that, given two sorted arrays of N int values, prints all elements that appear in both arrays, in sorted order. The running time of your program should be *proportional* to N in the worst case.

Solution

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//Pseudocode:
function in_both(a[], b[])
   i_a = 0; //index counter of a[]
    i-b = 0 //index counter of b[]
    last_match = -1
    while(i_a < a.length AND i_b<b.length)</pre>
    if(a[i_a] < b[i_b])
        i_a++
    else if(a[i_a] > b[i_b])
        i_b++
    else
        if(lastmatch<0 OR a[i_a] != a[lastmatch])</pre>
            s += a[i_a].toString + " " //String that will be printed
            lastmatch = i_a
    i a++
    i_b++;
INPUT SAMPLE:
   a[] = \{0,1,2,3,4,5\}
    b[] = \{4,5,6,7,8,9\}
OUTPUT SAMPLE:
  4,5
```