CSE221

Class Performance Evaluation

Topic: Two Pointers

Alice, Bob, and Trudy are three friends. Alice, Bob, and Trudy have a sorted list in ascending order of length U, V and W length respectively.

Now, they want to make a sorted list of U+V+W length in ascending order.

Your marks will depend on the correctness and efficiency of your code.

Input:

- The first line contains an integer U (1 <= U <= 105), denoting the length of Alice's sorted list. In the next line, there will be U integers separated by space.
- The third line contains another integer V (1 <= V <= 105), denoting the length of Bob's sorted list. In the next line, there will be V integers separated by space.
- The fifth line contains another integer W (1 <= W <= 105), denoting the length of Trudy's sorted list. In the next line, there will be W integers separated by space.

All the numbers given in the input will fit in a 32-bit signed integer.

It is guaranteed that the given lists will be in sorted order.

Output:

You have to make a sorted list in ascending order from the given lists in ascending order and show the output.

Sample Input/Output:

Sample Input 1	Sample Output 1
4 1 3 5 7 5 2 2 4 8 15 4 1 7 9 10	1 1 2 2 3 4 5 7 7 8 9 10 15
Sample Input 2	**Sample Output 2**
3 2 10 12 6 3 4 6 7 8 9 2 1 5	1 2 3 4 5 6 7 8 9 10 12