Given **K** sorted linked lists each of size **N**. The task is to merge them in such a way that after merging they will be sorted.

Input:
First line of input contains number of testcases T. For each testcase, first line of input contains number of linked lists and next line contains data of elements of all K linked lists, with first element as N, the length of linked list and next N elements for the same linked list.

Output:
Print the merged linked list.

Constraints
1 <= T <= 50
1 <= N <= 10^3

Example:
Input
1
4
3 1 2 3 2 4 5 2 5 6 2 7 8

Output:
1 2 3 4 5 5 6 7 8

Explanation
Testcase 1: The test case has 4 sorted linked list of size 3, 2, 2, 2
1st list 1 -> 2-> 3
2nd list 4->5
3rd list 5->6
4th list 7->8
The merged list will be 1->2->3->4->5->5->6->7->8.