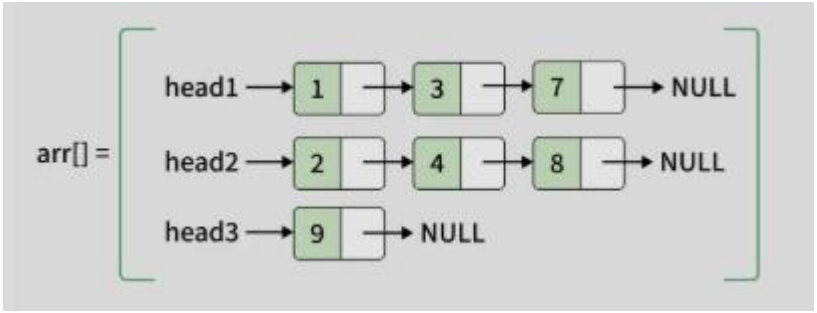
Merge K sorted linked lists

Given an array **arr[]** of **n sorted linked lists** of different sizes. Your task is to **merge** all these lists into a single **sorted** linked list and return the **head** of the merged list.

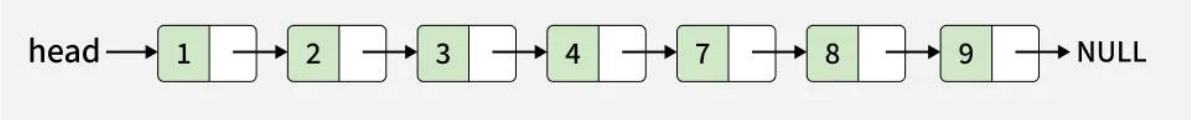
Examples:

Input:

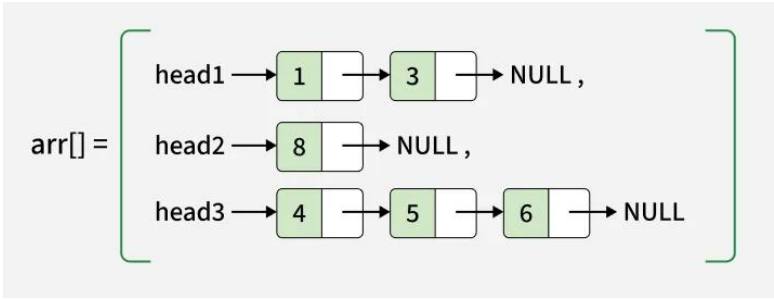


Output: 1 -> 2 -> 3 -> 4 -> 7 -> 8 -> 9

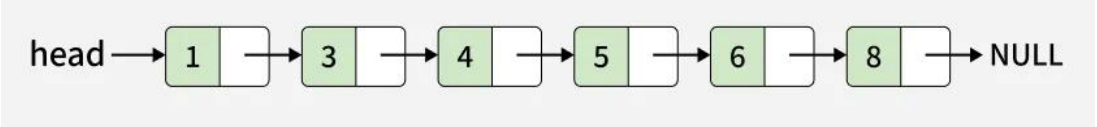
Explanation: The arr[] has 3 sorted linked list of size 3, 3, 1.
1st list: 1 -> 3 -> 7
2nd list: 2 -> 4 -> 8
3rd list: 9
The merged list will be:



Input:



Output: 1 -> 3 -> 4 -> 5 -> 6 -> 8
Explanation: The arr[] has 3 sorted linked list of size 2, 1, 3.
1st list: 1 -> 3
2nd list: 8
3rd list: 4 -> 5 -> 6
The merged list will be:



Constraints
$1 \leq$ total no. of nodes $\leq 10^5$
$1 \leq$ node->data $\leq 10^3$