# Merge k Sorted Lists (Level = Hard)

Given K sorted linked lists, merge them into one linked list such that all the elements of the new list are sorted.

Examples

|  |  |  |
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| **No** | **Input** | **Output** |
| 1 | 1🡪3🡪8  4🡪5🡪8🡪100  9🡪10🡪11🡪12🡪99 | 1🡪3🡪4🡪5🡪8🡪8🡪9🡪10🡪11🡪12🡪99 |
| 2 | 1🡪3🡪8🡪10🡪11🡪13🡪14🡪100 4🡪5🡪8🡪12🡪19🡪20🡪24🡪25  13🡪14🡪15🡪16🡪17🡪18🡪19🡪20  1🡪3🡪5🡪7🡪9🡪11🡪13🡪15 | 1🡪1🡪3🡪3🡪4🡪5🡪5🡪7🡪8🡪8🡪9🡪10🡪11🡪11🡪12🡪13🡪13🡪13 🡪14🡪14🡪15🡪15🡪16🡪17🡪18🡪19🡪19🡪20🡪20🡪24🡪25🡪100 |