

Merge Two Sorted Lists

list 1 list 2 - both sorted \longrightarrow sorted list head

① \longrightarrow ② \longrightarrow ④ \longrightarrow ⑤

① \longrightarrow ③ \longrightarrow ④

output ① \longrightarrow ① \longrightarrow ② \longrightarrow ③ \longrightarrow ④ \longrightarrow ④ \longrightarrow ⑤ empty
= empty

$n = 50$ max
val $[-100, 100]$

increasing order

head List 1

head List 2

if head L1 > head L2

head = head L2

}

while node != nil {

append lower value

}

empty + [0]
= [0]