Recursion Concepts & Ans...

Motivation (भाषण)



आज गही ती कल जुम पक्का interviews

भोड़ी गी

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video 13

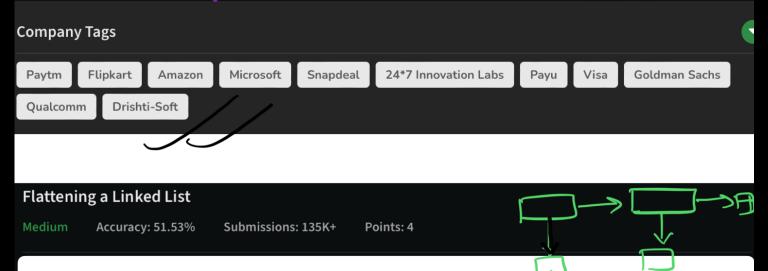
codestory with MIK

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Company :-



Given a Linked List of size N, where every node represents a sub-linked-list and contains two pointers:

- (i) a next pointer to the next node,
- (ii) a **bottom** pointer to a linked list where this node is head.

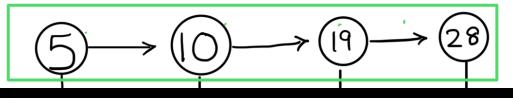
Each of the sub-linked-list is in sorted order.

Flatten the Link List such that all the nodes appear in a single level while maintaining the sorted order.

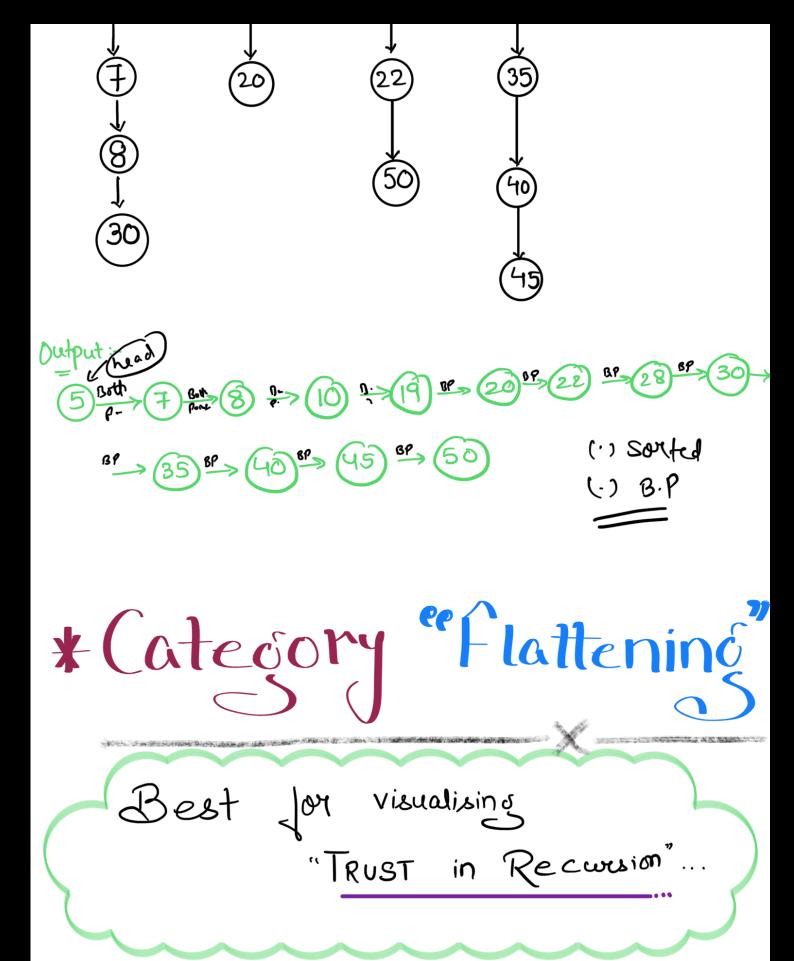
Note: The flattened list will be printed using the bottom pointer instead of the next pointer.

For more clarity have a look at the printList() function in the driver code.

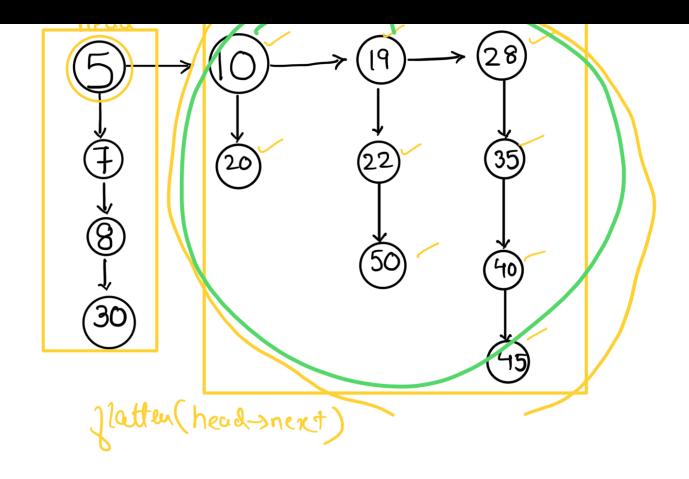




n = 4

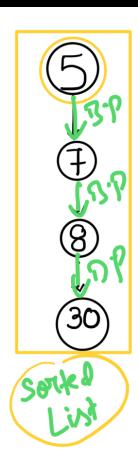


"Beauty of Recursion"



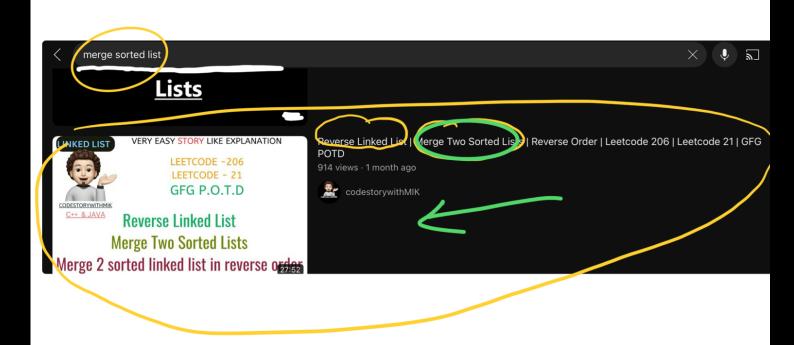
head 2

head

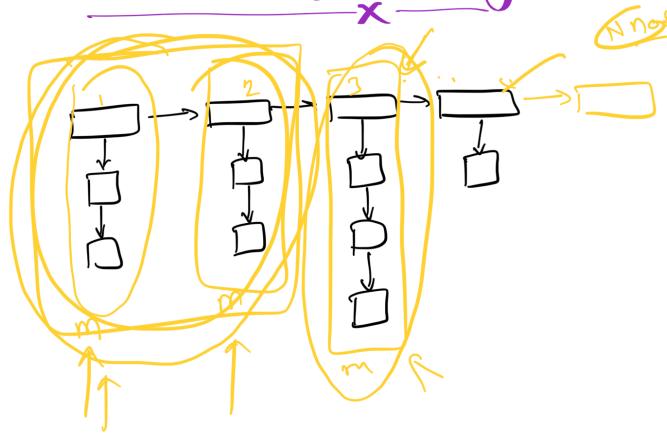




Meye



lime Complexity



$$O(m+m) = O(2m)$$

$$O(2m + m) = O(3m)$$

$$O(2m + 3m + 4m + ... + nm)$$

$$0 \left(m \left(2 + 3 + 4 + \dots N \right) \right)$$

 $\frac{1}{2} O(m * (N*N + N))$ TO (m* N*N) + JOHN) $T.c. \propto O(m*N*N)$.

Space Complexity:

Auxiliary Space = 0(1)

N*m = total no of nodes in flatter linged.

