

❖ Flatten Doubly Linked List:

- Explanation:

The program flattens a multilevel doubly linked list by recursively traversing each node and its child nodes. For each node with a child, it flattens the child list and connects it to the current node, ensuring that all nodes are linked in a single-level structure. The process continues until all nodes across all levels are processed, returning the head of the newly flattened list.

- Time Complexity and Space Complexity:

- $O(n+m)$ $O(1)$

- Flowchart:





