

code :- [Flatten a multilevel doubly LL]

Node* Flatten (Node* head) {

if (head == NULL) {

return head;

}

Node* curr = head;

while (curr != NULL)

if (curr->child != NULL) {

// flatten child nodes

Node* next = curr->next;

curr->next = flatten (curr->child);

curr->next->prev = curr;

curr->child = NULL;

// find tail

while (curr->next != NULL) {

curr = curr->next;

}

// attach tail with next ptr.

if (next == NULL) {

curr->next = next;

next->prev = curr;

}

curr = curr->next;

return head;

}