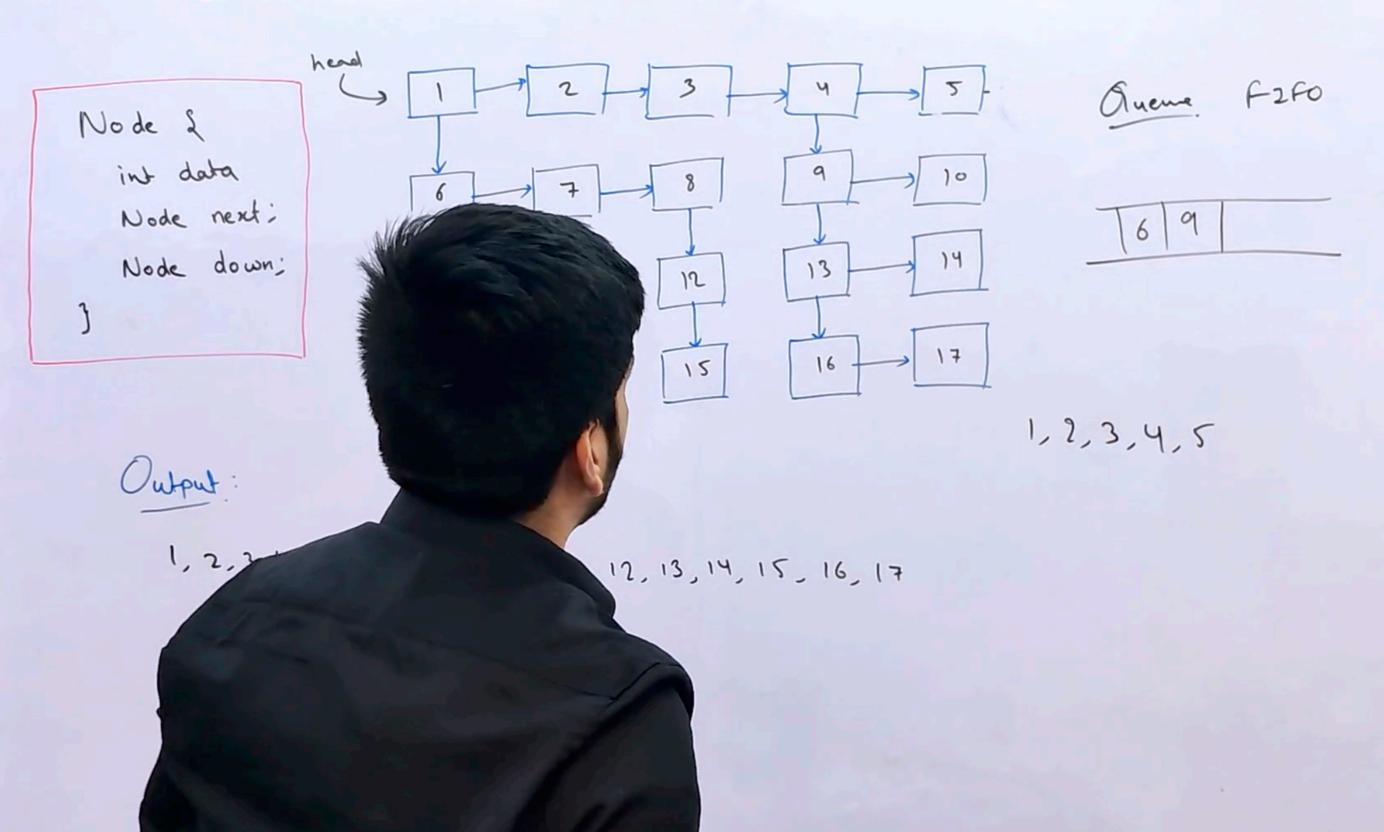
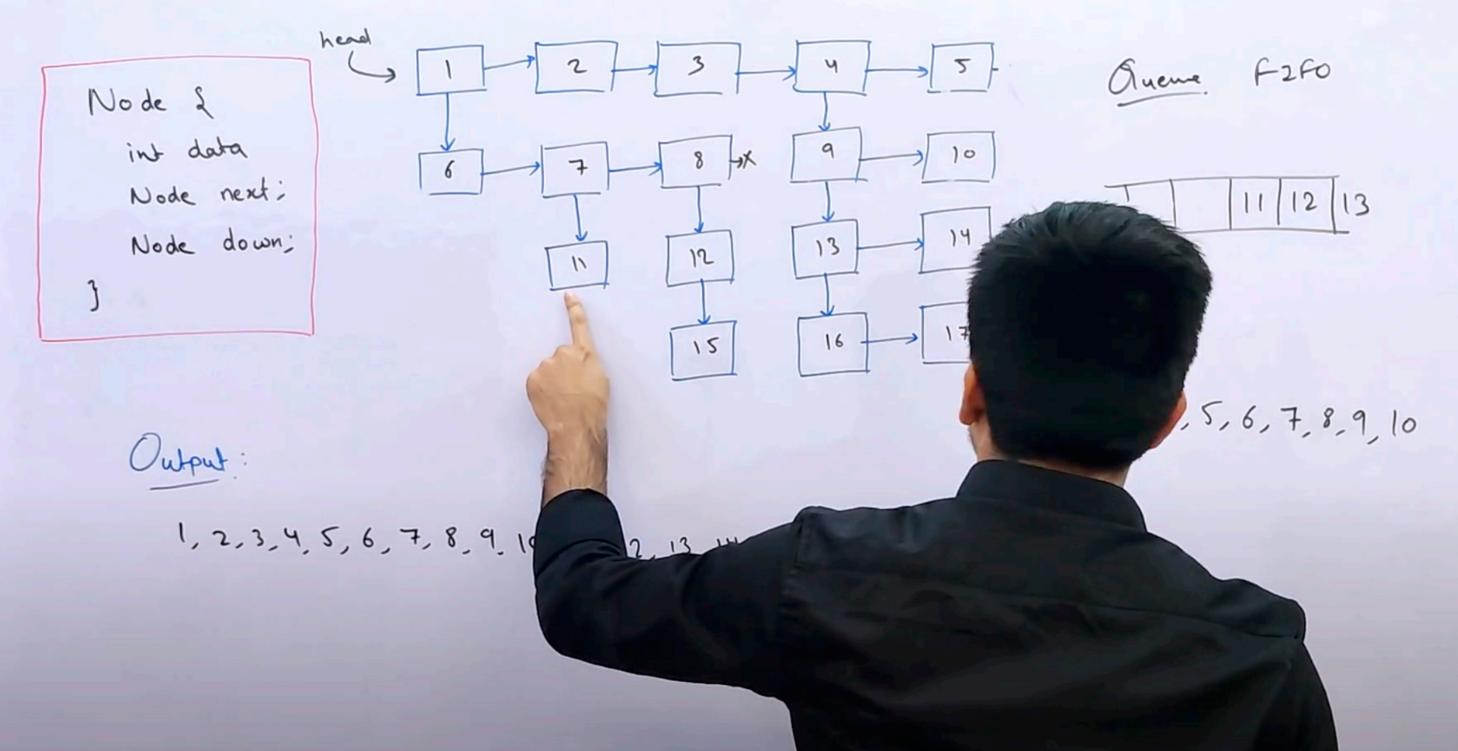
Or. Flatten a Multilevel Linked List

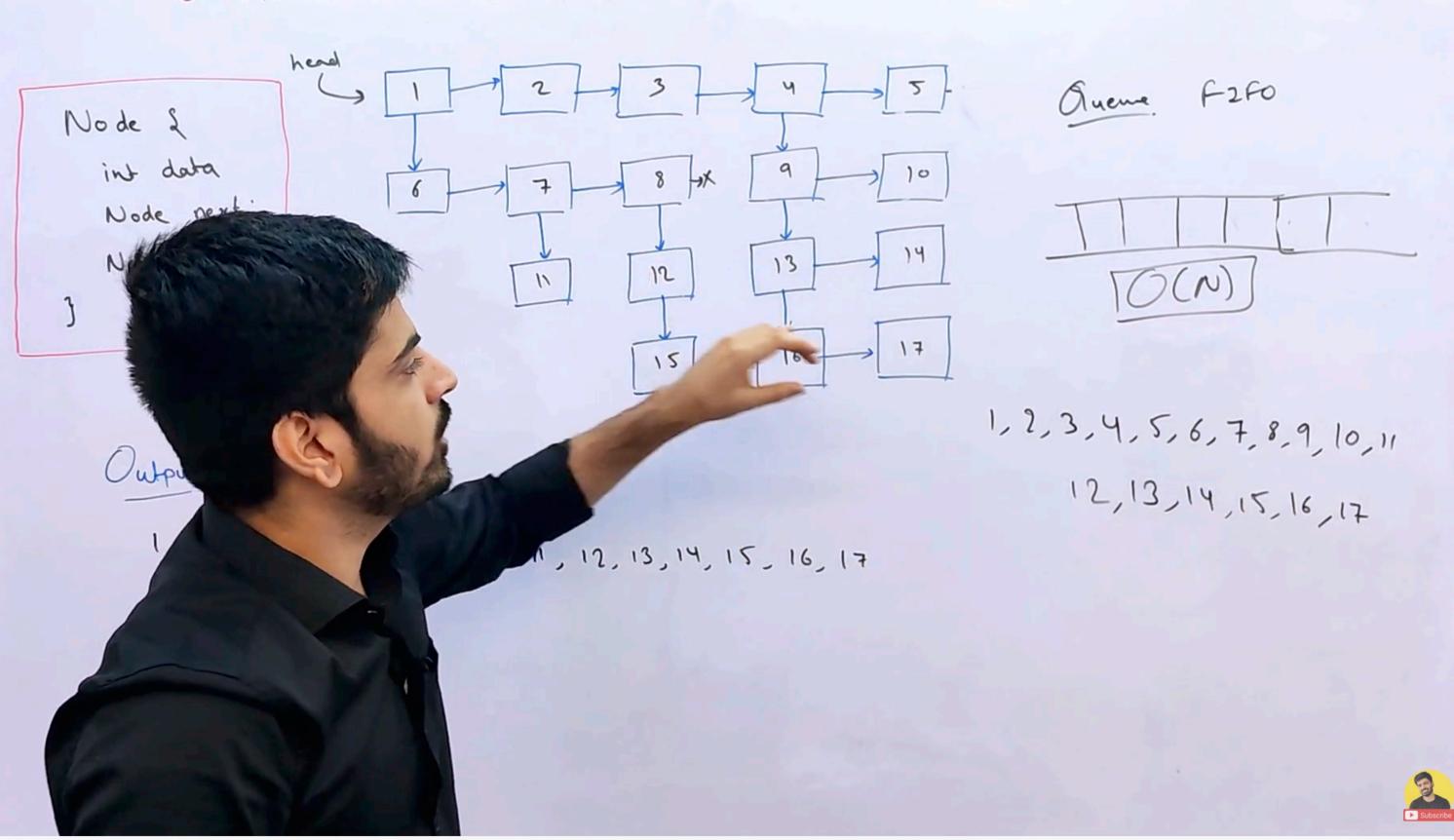




Or. Flatten a Multilevel Linked List

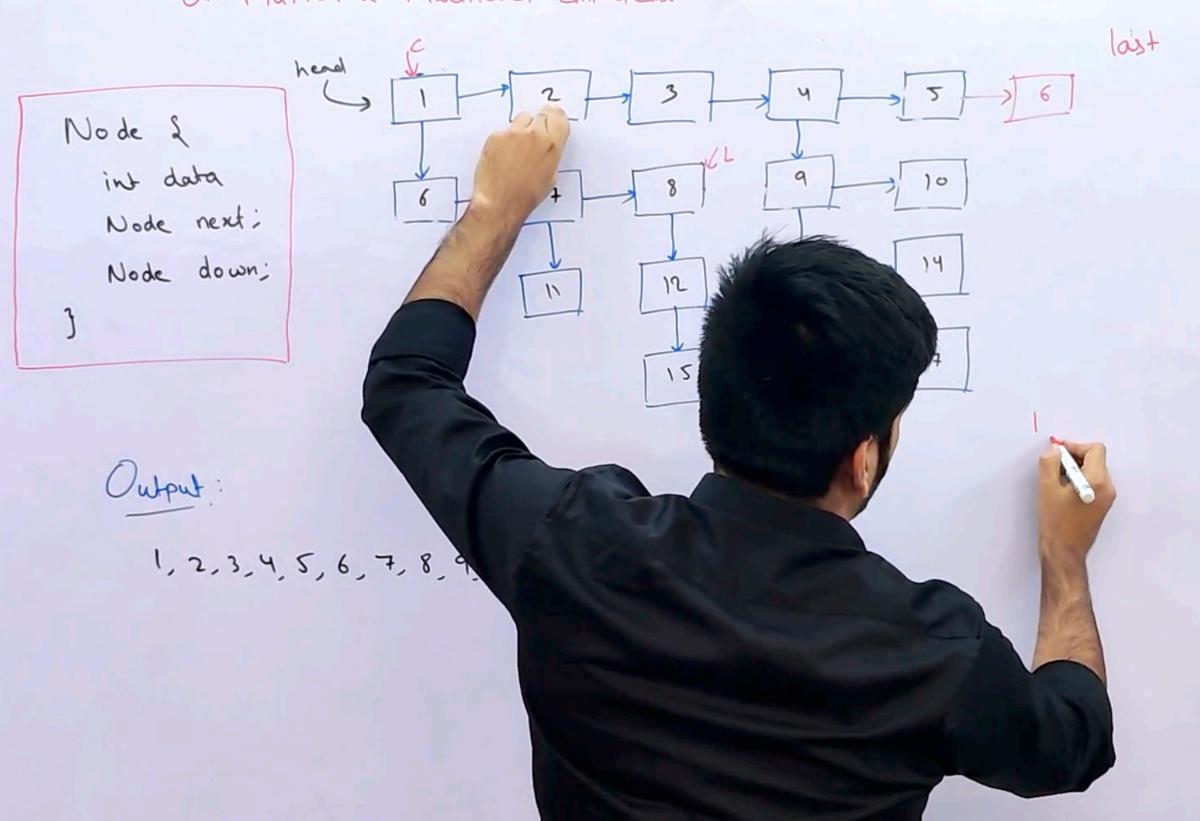


8

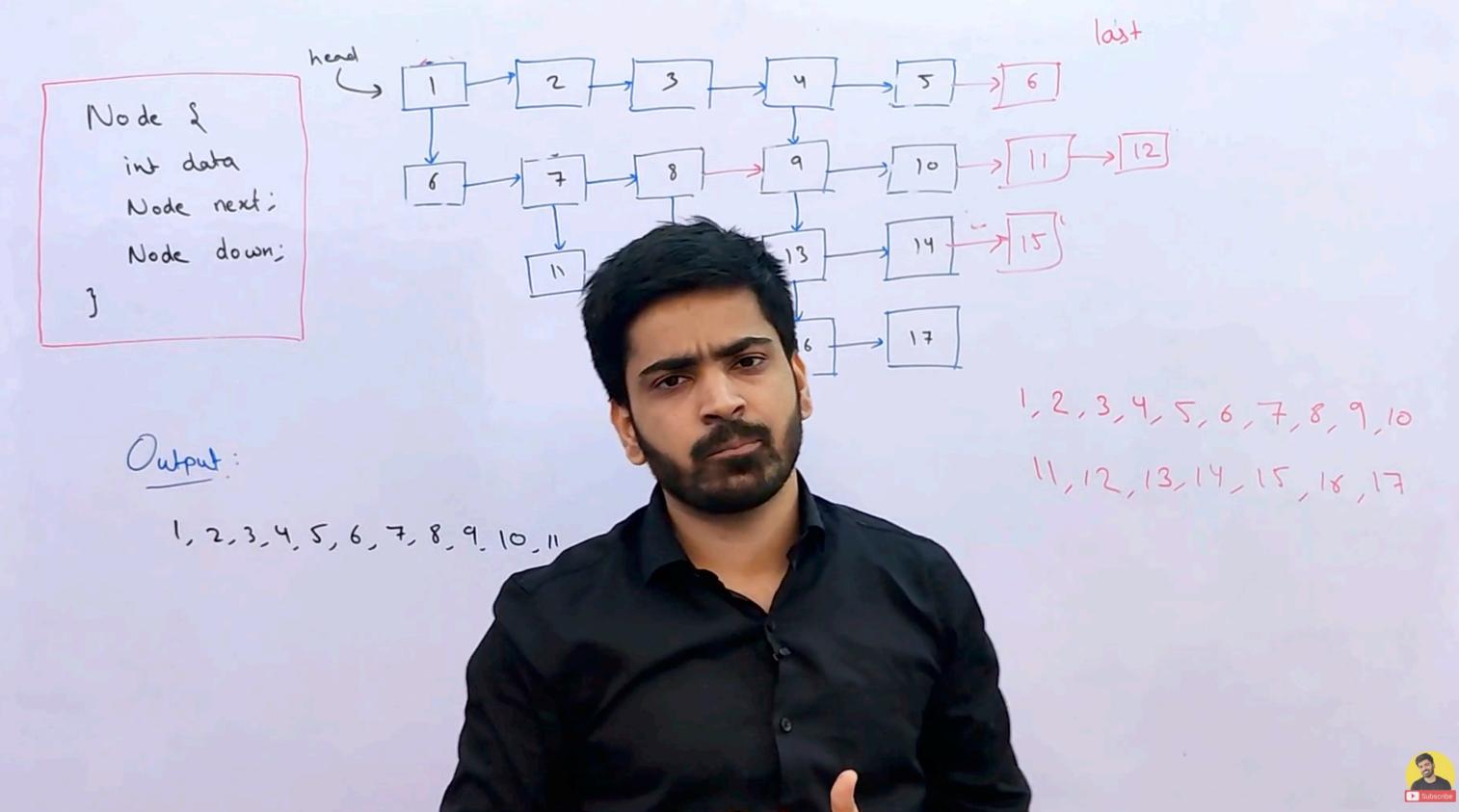


```
17
18
   class Main
19 - {
20
        // Function to convert a multilevel linked list into a singly linked list
21
        public static Node convertList(Node head)
22 -
23
            Node curr = head;
24
            Queue<Node> q = new ArrayDeque<>();
25
26
            // process all nodes
27
            while (curr != null)
28 -
29
                // last node is reached
30
                if (curr.next == null)
31 -
32
                    // dequeue the front node and set it as the next node
33
                    // of the current node
34
                    curr.next = q.poll();
35
36
37
                // if the current node has a child
                if (curr.child != null) {
38 -
39
                    q.add(curr.child);
40
41
42
                // advance the current node
43
                curr = curr.next;
44
45
46
            return head;
47
48
```

Q. Flatten a Multilevel Linked List







```
return;
Node tmp = null;
/* Find tail node of first level linked list */
Node tail = node;
while (tail.next != null) {
    tail = tail.next;
// One by one traverse through all nodes of first level
// linked list till we reach the tail node
Node cur = node;
while (cur != tail) {
    // If current node has a child
    if (cur.child != null) {
        // then append the child at the end of current list
        tail.next = cur.child;
        // and update the tail to new last node
        tmp = cur.child;
        while (tmp.next != null) {
            tmp = tmp.next;
        tail = tmp;
```

if (node == null) {