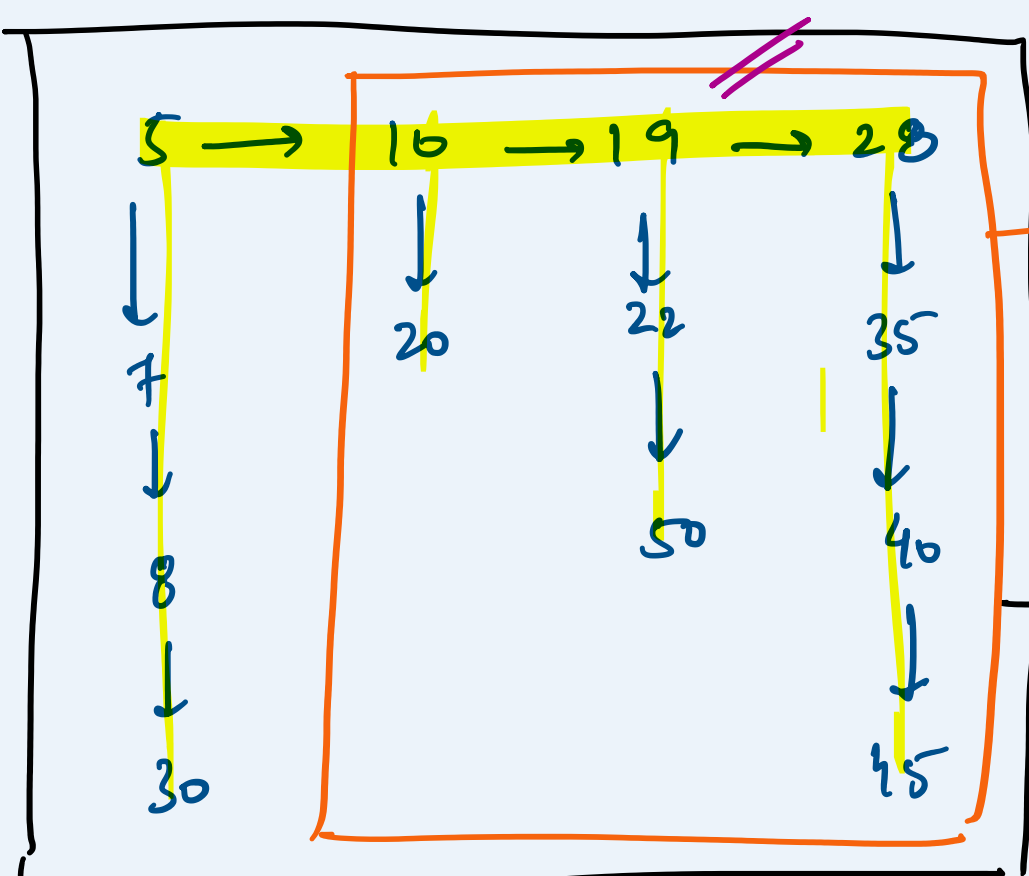


Q Given a LL, flatten it.

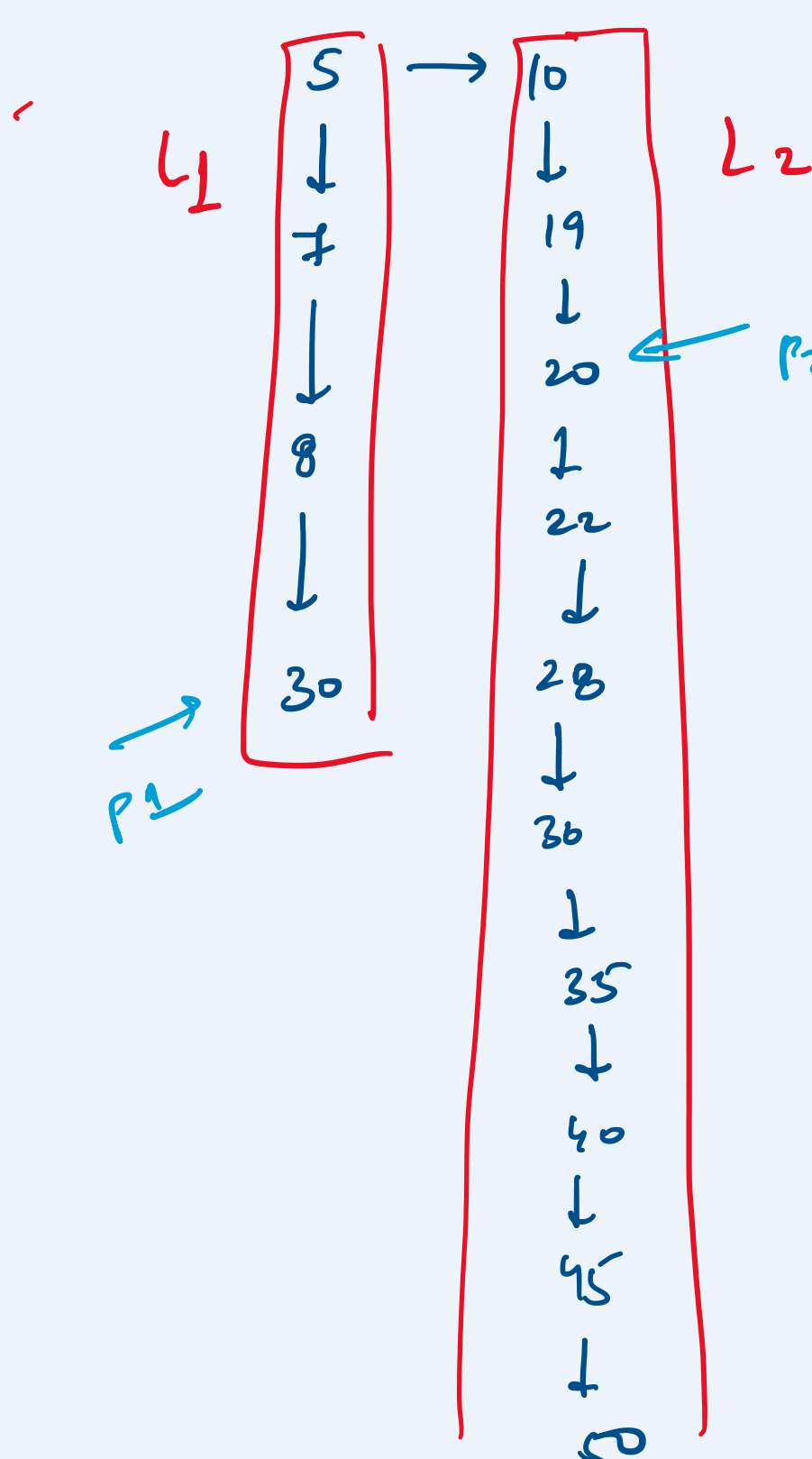


```
Node node {
    int data;
    Node next;
    Node down;
}
```

smaller problem

bigger problem

Output: 5 → 7 → 8 → 10 → 19 → 20 → 22 → 28 → 30 → 35 → 40 → 45 → 50 → x

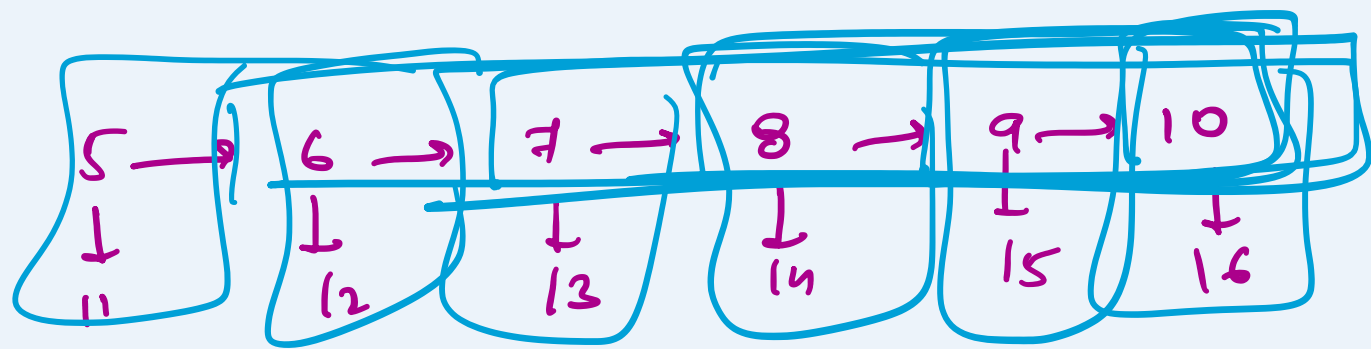
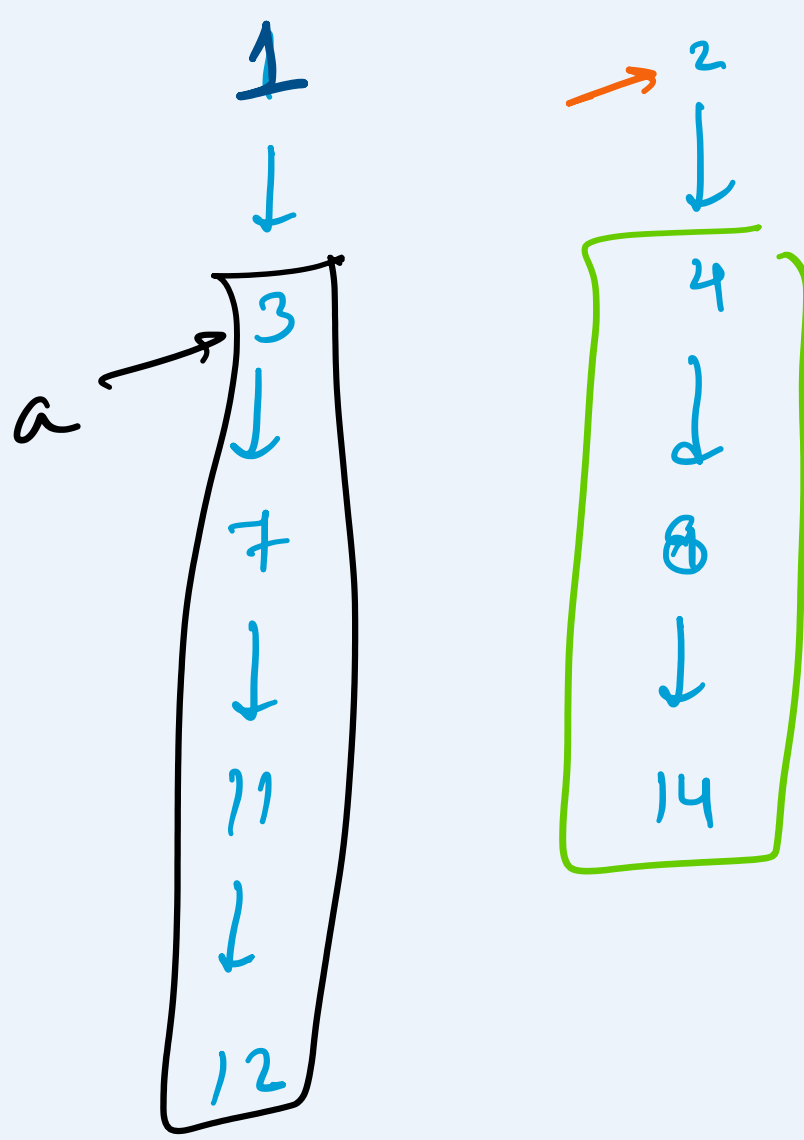


L1 and L2 are sorted

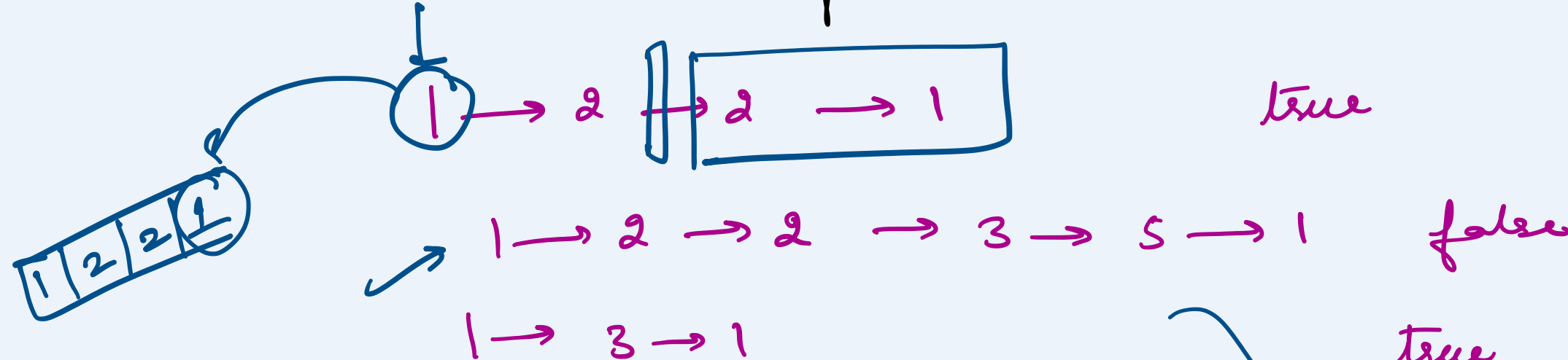
→ Merge two sorted LL.

5 → 7 → 8 → 10 → 19 → 20

1 → 2



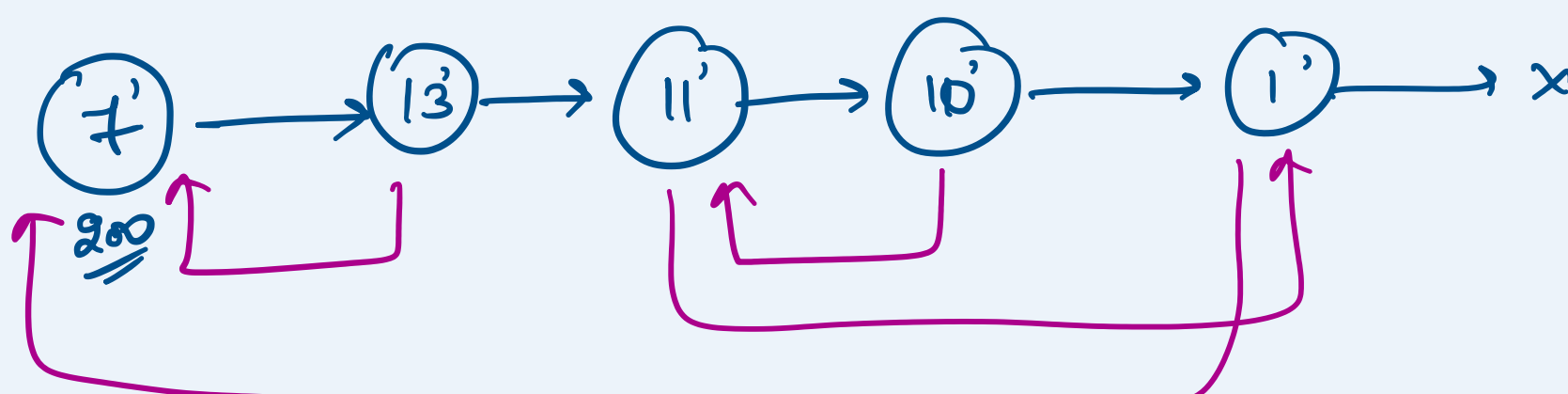
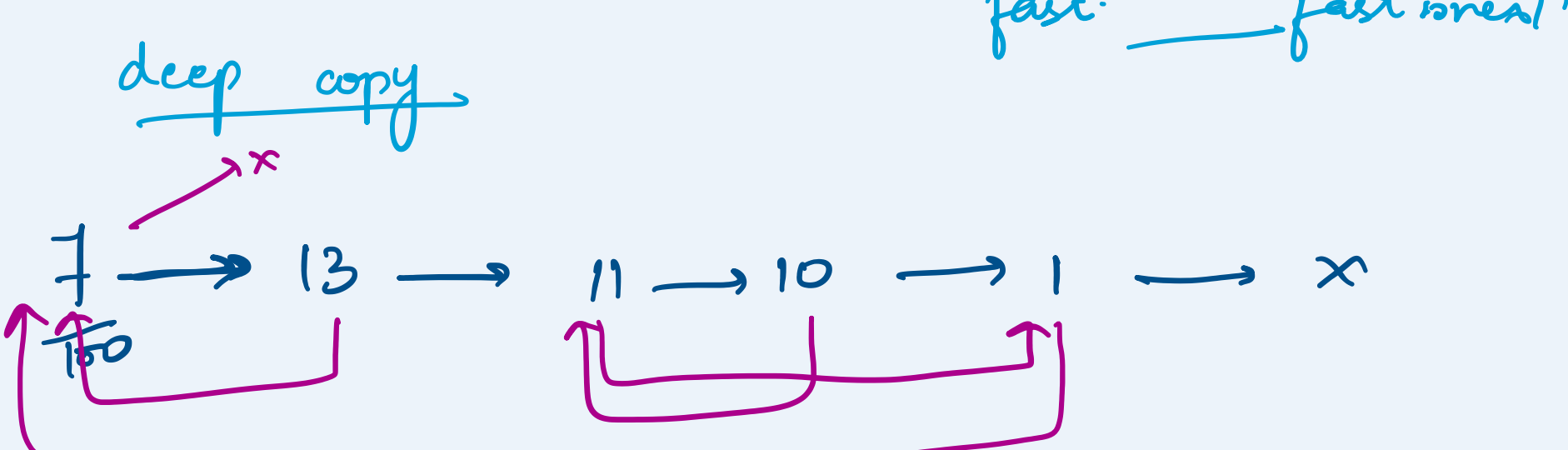
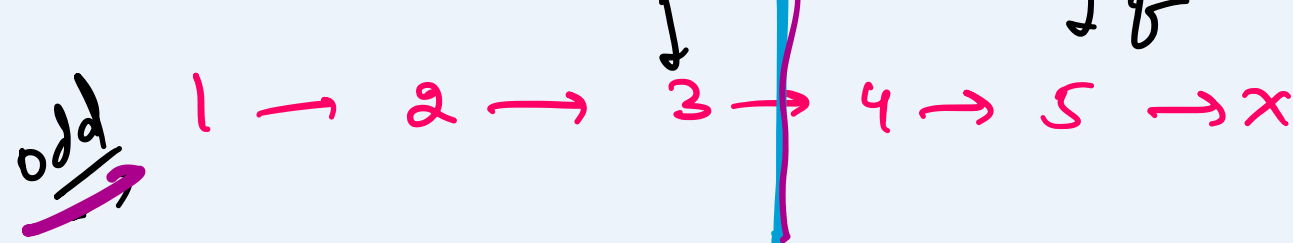
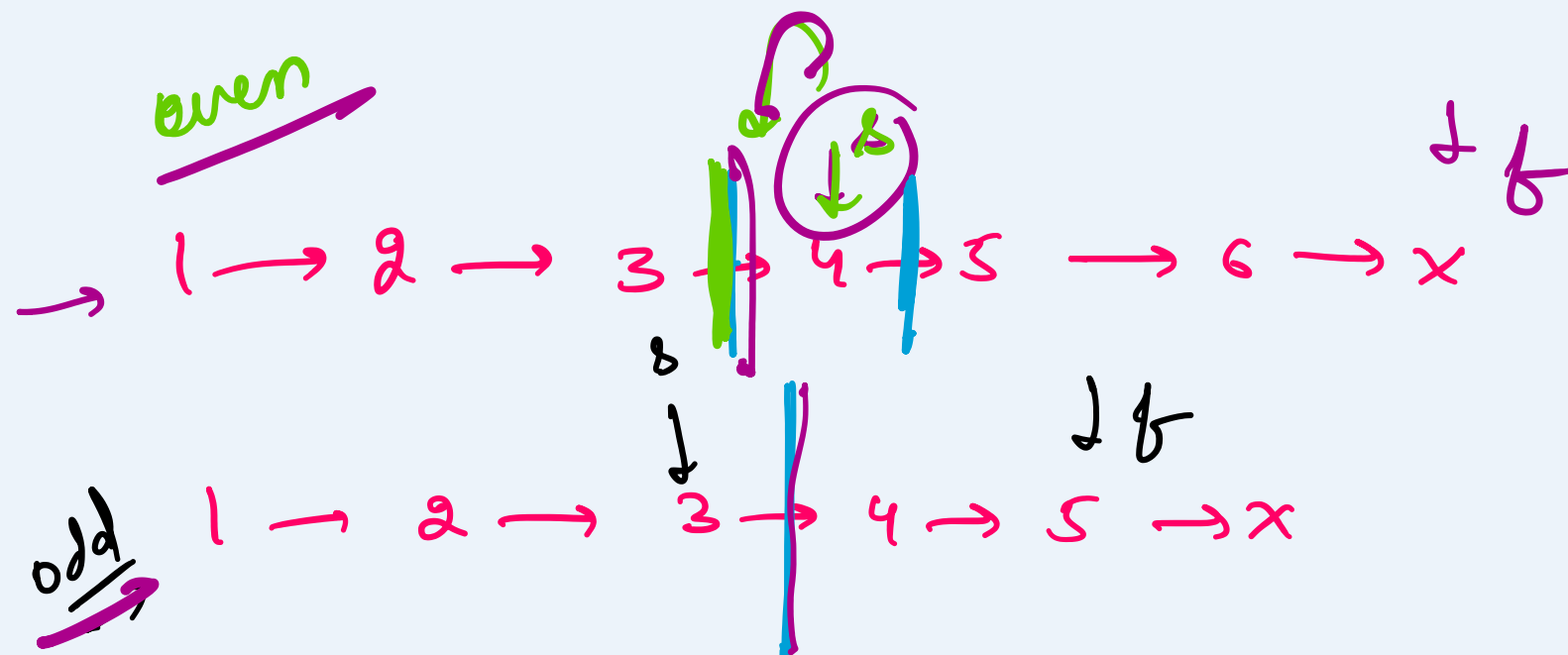
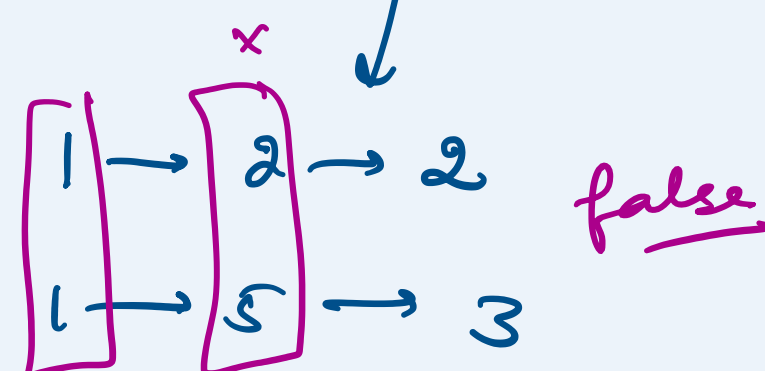
Q Given a LL, true/false, if the LL is a palindrome.



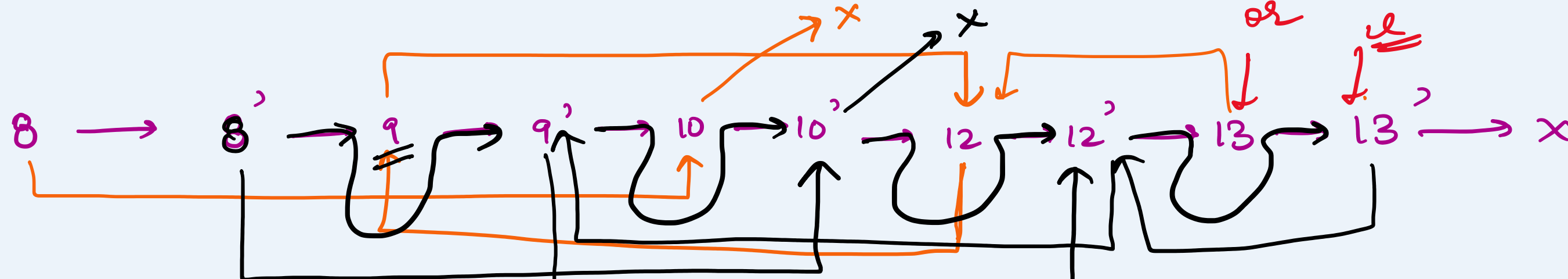
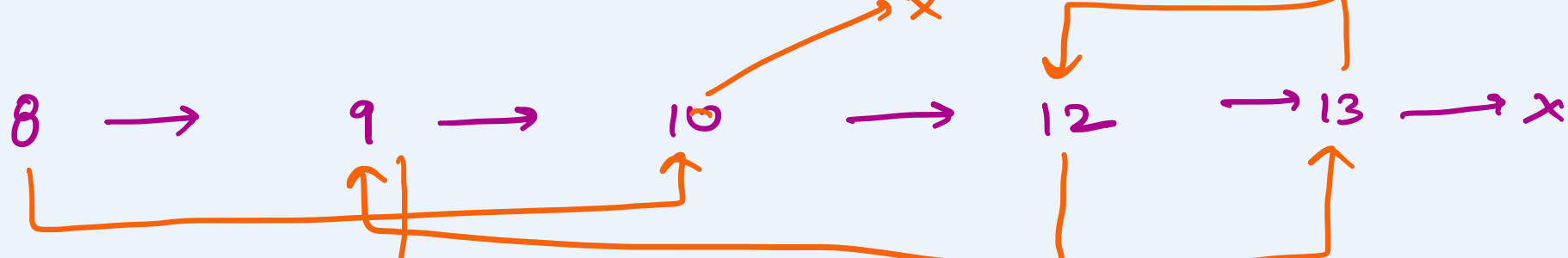
steps

- Find the mid of LL
- Reverse the second half

P1 → 1 → 2
P2 → 1 → 2



TC → O(n)
SC → O(1)



original = head;

cloned = original -> next;

original = random;

cloned = random = original -> next;

