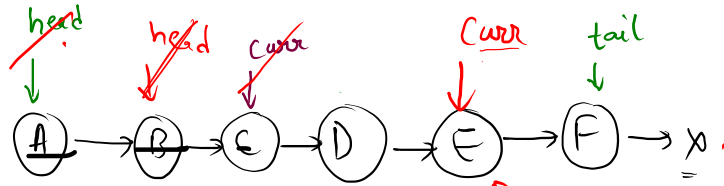


data
next



1.

2.

Sys0(head.next.data); head

Sys0(curr.data);

curr = curr.next.next;

Sys0(curr.data);

3.

Sys0(curr.next.data);

4.

Sys0(tail.next.data);

5.

head = head.next;

Sys0(head.data);

6.

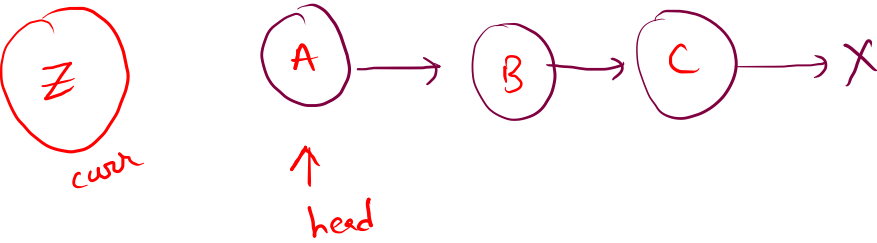
head = curr

7. Sys0(head.next); data

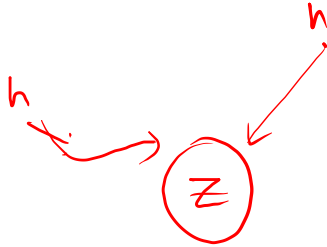
B ✓
C ✓
E ✓
F ✓
Errr ✓
- B ✓
F / (Add) ✓

null.data

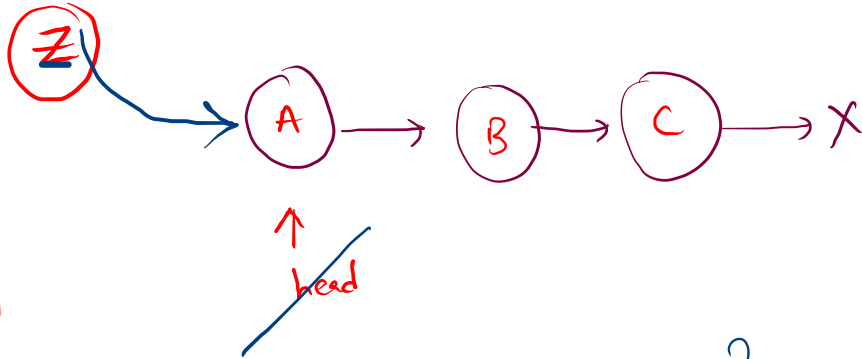
Add @ Head.



head == null (s=0)

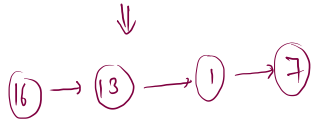
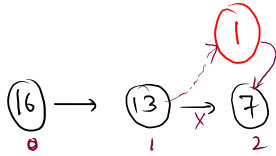


head head \neq null ($s \neq 0$)

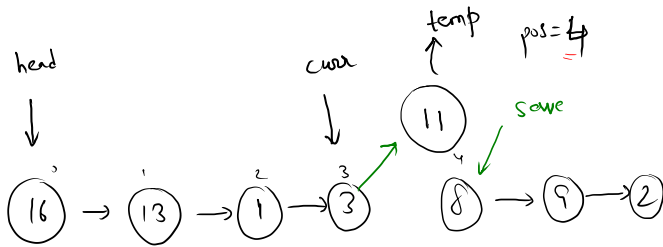


$\left. \begin{array}{l} curr.next = head \\ head = curr \end{array} \right\}$

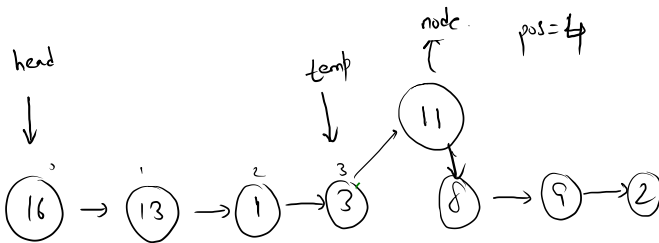
Insert at specific position.



eg²



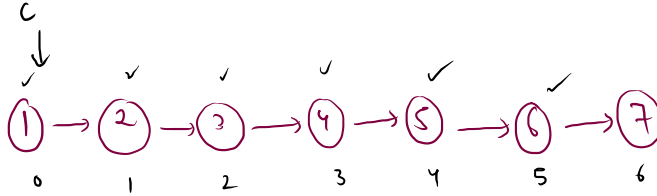
save = curr.next
curr.next = temp
temp.next = save



Nth Node finding

N=3.

len=7



N=2

$$x = \text{len} - N$$

$$x = 7 - 2 = 5$$

for

```

public static int node_finding(SinglyLinkedListNode head, int N) {
    int len = 0;

    SinglyLinkedListNode curr = head;
    while(curr != null){
        curr = curr.next;
        len++;
    }

    int x = len - N;

    curr = head;
    for(int i = 0; i < x; i++){
        curr = curr.next;
    }

    return curr.data;
}
    
```

len = 7

$$x = 7 - 2 = 5$$

$$x = 5$$

$$i = 0$$

$$2 \neq 3 \neq 4 \neq 5$$

$$0 < x$$

$$0 < 5$$

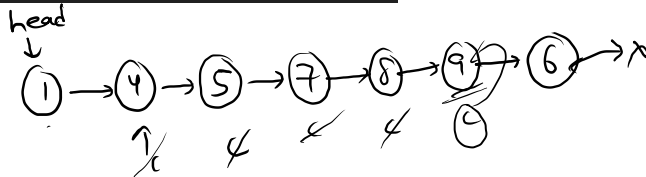
$$1 < 5$$

$$2 < 5$$

$$3 < 5$$

$$4 < 5$$

$$5 < 5$$

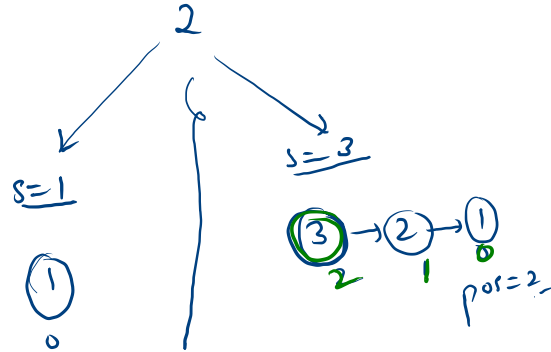
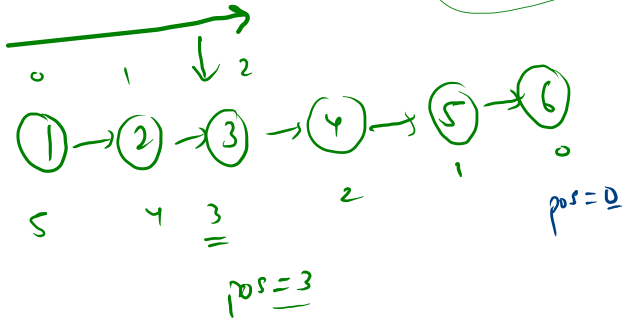


Get Node Value

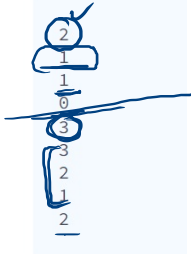
(head)

```
public static int getNode(SinglyLinkedListNode llist, int positionFromTail) {  
    // Write your code here  
}
```

$$2 = 6 - 3 - 1$$



Sample Input

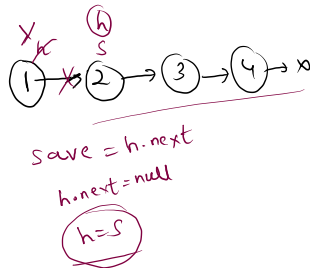
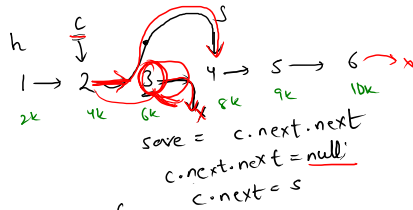
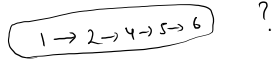
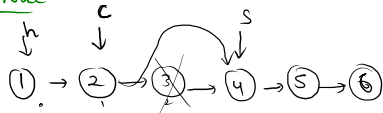


Sample Output



Delete a Node

pos = 2



```

public static SinglyLinkedListNode deleteNode(SinglyLinkedListNode head, int position) {
    if(position == 0){
        SinglyLinkedListNode save = head.next;
        head.next = null;
        head = save;
        return head;
    }
    SinglyLinkedListNode curr = head;
    for(int i = 0; i < position-1; i++){
        curr = curr.next;
    }
    SinglyLinkedListNode save = curr.next.next;
    curr.next.next = null;
    curr.next = save;
    return head;
}
  
```