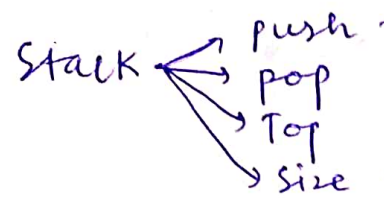
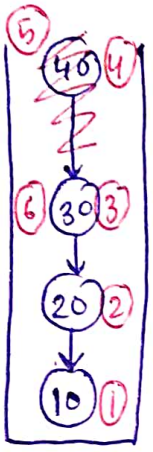
⑧ Linked List to Stack Adapter

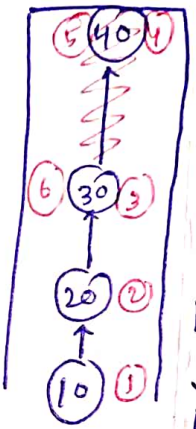
Issme hume linked list ko adapt krengy aur Stack jaisa bana dengy!





① push 10
addfirst → ② push 20 → addlast
addfirst → ③ push 30 → addlast
addfirst → ④ push 40 → addlast
removefirst → ⑤ pop → removelast
get first → ⑥ top → get Last

✓ ✗



Humne addlast, removelast, get Last wala use nahi kiya kuki humne jis style me krey hai usme remove Last O(n) nahi hai! Par Java ke Style me removeLast O(n) hota hai!

∴ Stack me ek hi end me insertion aur deletion hota hai!

```
public static class LLToStackAdapter {
  LinkedList<Integer> list;

  public LLToStackAdapter() {
     list = new LinkedList<>();
  }

  int size() {
    return list.size();
  }
  int pop() {
   if(size() == 0){
      Syso("stack Underflow");
      return -1;
   }
   else {
     return list.removeFirst();
   }
  }
  void push(int val){
   list.addFirst(val);
  }
```

```
  int top() {
     if (size() == 0) {
    Syso("Stack Underflow");
        return -1;
     } else {
       return list.getFirst();
     }
  }
}
```