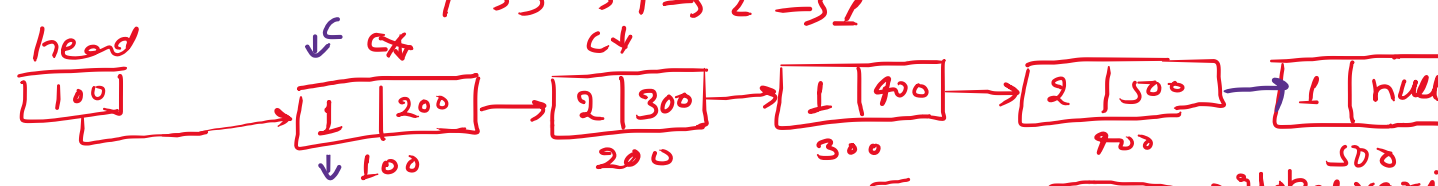
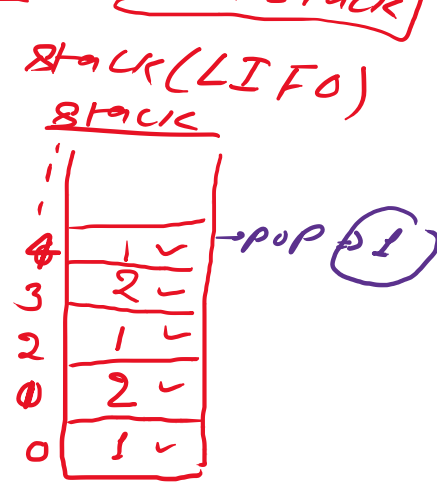


Q Check whether LinkedList is Palindrome or not? Use collection
or stack

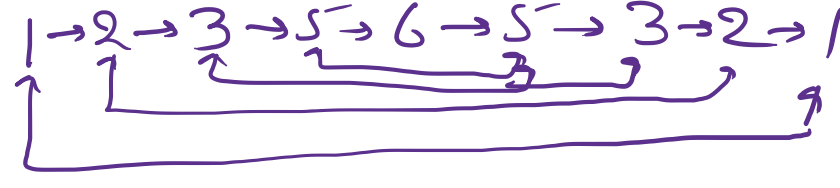
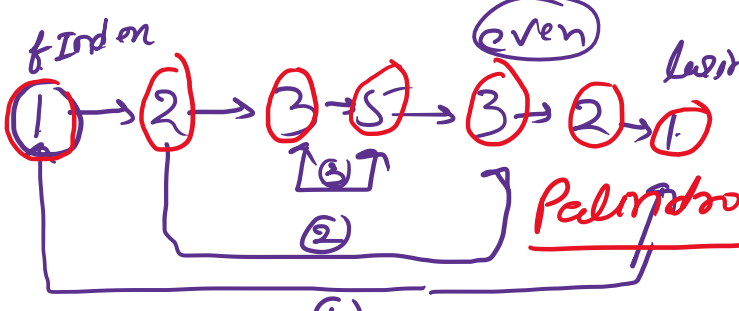
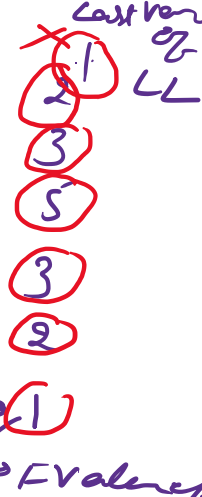
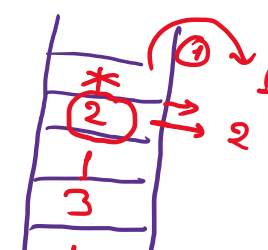
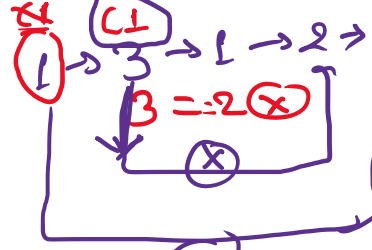


```
void checkPalindromeList() {
    if (head != null) {
        Node current = head;
        pushData(); // boolean flag = false;
        while (current != null) {
            int data = stack.pop();
            if (data == current.data) {
                flag = true;
            } else {
                flag = false;
                break;
            }
            current = current.next;
        }
        if (flag) {
            sop("Palindrome");
        } else {
            sop("not Palindrome");
        }
    }
}
```

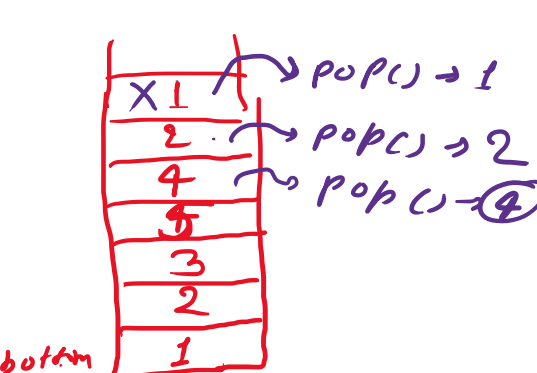
```
Stack stack = new Stack();
void pushData() {
    if (head != null) {
        Node cl = head;
        while (cl != null) {
            stack.push(cl.data);
            cl = cl.next;
        }
    }
}
```



1 2 1 2 1 → Reverse = 1 2 1 2 1



if flag = T else flag = false break;
1 → 2 → 3 → 5 → 4 → 2 → 1
Fidit → not palindrome

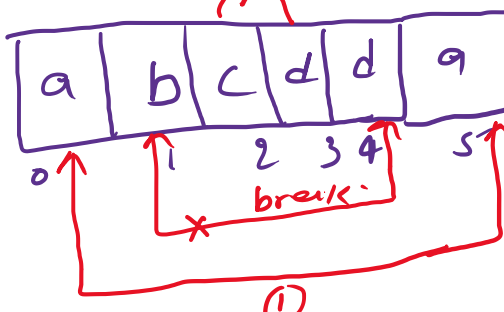
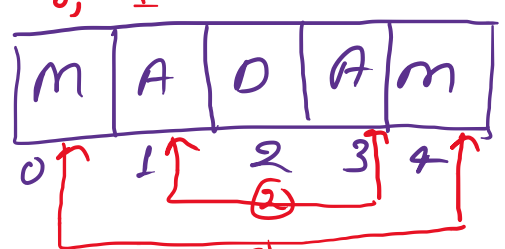
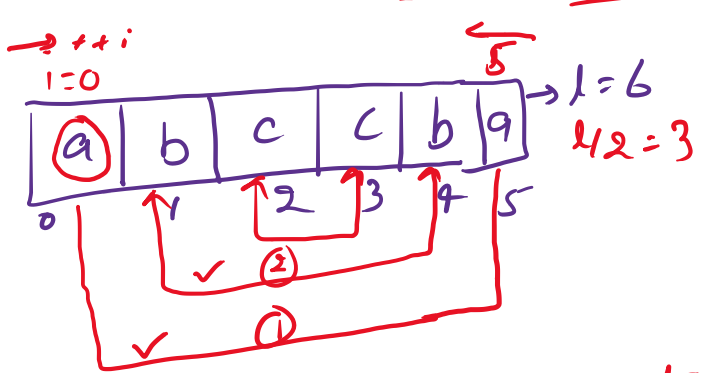


l = 5
4/2 = 2
0, 1

String str = "MADAM"

String s2 = "abcd d a"

String s3 = "abc c b a"; 3 & 4/2



l = 6
4/2 = 3

void checkPalindrome (String str) {

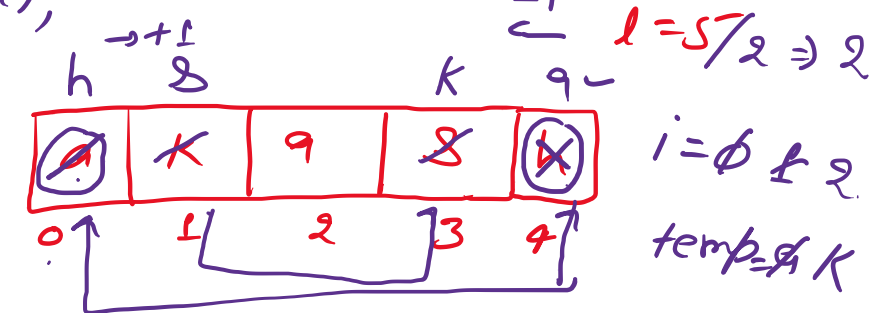
```
for (int i = 0; i < str.length() / 2; i++) {
    boolean flag = false;
    if (str.charAt(i) == str.charAt(str.length() - 1 - i)) {
        flag = true;
    } else {
        flag = false;
        break;
    }
}
if (flag) {
    sop("Palindrome");
} else {
    sop("not Palindrome");
}
```

Reverse String

String str = "aKaSh";

char ch[] = str.toCharArray();

```
for (i = 0; i < ch.length / 2; i++) {
    char temp = ch[i];
    ch[i] = ch[ch.length - 1 - i];
    ch[ch.length - 1 - i] = temp;
}
sop(ch);
```



h s a k a
s + str.charAt(i)
l = 1

