

```

2 3
3
4 Output :
5 7
6 Move sheet from A to C
7 Move sheet from A to B
8 Move sheet from C to B
9 Move sheet from A to C
10 Move sheet from B to A
11 Move sheet from B to C
12 Move sheet from A to C

```

### 18. Use linked list to implement palindrome

Please make a palindrome. (word that reads the same when you reverse it). The input consist of several lines ending with EOF. Each line contains a non-empty string of upper case and lower case English letters ('A'-'Z' and 'a'-'z'). The length of the string is less than or equal to 100,000.

**Note:** You must use linked lists; otherwise, no points will be given.

### Test Case

Please test your program with Input, and then check the answers with Output.

Listing 18 : Use linked list to implement palindrome

```

1 Input :
2 Aawweeaa
3 Abba
4 asdfghj
5
6 Output :
7 aawweeaaeeewwaa
8 abbabba
9 asdfghjhgfdsa

```

### 19. Palindrome

Given a string with length of  $n$ , reverse every  $M$  letters in the string using a stack. For example, given a string "cardogbug" and if  $M=3$ , the first three letters are reversed to "rac", the next three letters are reversed to "god", and the last three letters are