**Linked List**

Buddhi and Siddhi are playing a game.The game is about to find the code through which the door of a secret room can be opened.There are some clues written in a paper and were kept in different places of home.There are two clues totally.They find the first clue in the form a linked list with numbers.In Second clue it is mentioned to rotate the linked list by four times in counter-clockwise.direction.Finally by entering the code obtained after rotation will open the door of a secret room.Help them in finding the code.

**Input:**

10 20 30 40 50 60

**Output:**

50 60 10 20 30 40

**Time Complexity:**O(n)

**Solution:**

```
class Node:
    def __init__ (self, data):
        self.data = data
        self.next = None
class LinkedList:
    def __init__(self):
        self.head = None
    def push(self, new_data):
        new_node = Node(new_data)
        new_node.next = self.head
        self.head = new_node
    def printList(self):
        temp = self.head
        l=[]
        while(temp):
            l.append(temp.data)
            temp = temp.next
        print(*l)
    def rotate(self, k):

        current = self.head
        count = 1
```

```
        while(count <k and current is not None):
            current = current.next
            count += 1
        if current is None:
            return

        kthNode = current
        while(current.next is not None):
            current = current.next

        current.next = self.head
        self.head = kthNode.next
        kthNode.next = None
l=[int(x) for x in input().split()]
llist = LinkedList()
for i in range(len(l)-1,-1,-1):
    llist.push(l[i])
llist.rotate(4)
llist.printList()
```