**LINKED LIST-K APPEND**

Given a linked list of length N and an integer K , append the last K elements of a linked list to the front. Note that K can be greater than N.

**Input Format:**

First line contains a single integer N denoting the size of the linked list.  
Second line contains N space separated integers denoting the elements of the linked list.  
Third line contains a single integer K denoting the number of elements that are to be appended.

**Constraints:**

1 <= N <= 10^4  
1 <= K <= 10^4

**Output Format**

Display all the elements in the modified linked list.

**Sample Input**

7

1 2 2 1 8 5 6

3

**Sample Output**

8 5 6 1 2 2 1

Program-

#include<iostream>

using namespace std;

class Node{

public:

int data;

Node \*next;

Node(int d)

{

data=d;

next=NULL;

}

};

void insertAtEnd(Node \*&head,int num)

{

if(head==NULL)

{

head=new Node(num);

return;

}

Node \*tail=head;

while(tail->next!=NULL)

tail=tail->next;

Node \*n=new Node(num);

tail->next=n;

return;

}

void print(Node \*head)

{

Node \*temp=head;

while(temp!=NULL)

{

cout<<temp->data<<" ";

temp=temp->next;

}

}

Node\* Append(int n,Node \*head,int k)

{

if(k>=n)

return head;

Node \*curr=head;

Node \*prev;

for(int i=1;i<=n-k;i++)

{

prev=curr;

curr=curr->next;

}

prev->next=NULL;

Node \*temp=curr;

while(temp->next!=NULL)

{

temp=temp->next;

}

temp->next=head;

return curr;

}

int main()

{

int n,i,num,k;

Node \*head=NULL;

cin>>n;

for(i=0;i<n;i++)

{

cin>>num;

insertAtEnd(head,num);

}

cin>>k;

k=k%n;

if(k>0)

head=Append(n,head,k);

print(head);

}