https://course.acciojob.com/idle?question=8507a3b7-ff9c-45c2-b12c-d886d2e145df

- MEDIUM
- Max Score: 40 Points

Reverse Linked List 2

Given the head node and two position values m and n. Your task is to reverse the linked list in the range of m amd n.

Input Format

The first line of contains 3 integers n, m and n. Where n is the number of nodes.

The second line of input contains N space separated integers denoting linked list.

Output Format

Your task is to return the head node after reversing the list.

Example 1

Input

6 2 4 1 2 3 4 5 6

Output

1 4 3 2 5 6

Explanation

The given linked list looks like 1->2->3->4->5->6->NULL , at second position we have 2 and at 4th position we have 4, so after reversing it becomes 1->4->3->2->5->6->NULL

Example 2

```
Input

1 1 1 5

Output:

5

Explanation:

Linked list looked like 5->NULL , so after reversing, the linked list remains same.

Constraints

1 <= N <= 500

-500 <= value of node <=500

1 <= left <= right <= N
```

Topic Tags

Linked lists

My code

```
// n java
import java.io.*;
import java.util.*;
class Node
```

```
{
     int data;
     Node next;
     Node(int d) {data = d; next = null; }
class insertion
  Node head;
  Node tail;
     public void addToTheLast(Node node)
      if (head == null)
       head = node;
       tail = node;
      else
       tail.next = node;
       tail = node;
      }
    void printList(Node head)
     Node temp = head;
     while (temp != null)
       System.out.print(temp.data+"");
       temp = temp.next;
     }
```

```
System.out.println();
     /* Drier program to test above functions */
class Main
  public static void main(String args[])throws IOException
      BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        String S[] = br.readLine().split(" ");
                int N = Integer.parseInt(S[0]);
        int m = Integer.parseInt(S[1]);
        int n = Integer.parseInt(S[2]);
             String S1[] = br.readLine().split(" ");
                insertion llist = new insertion();
                int a1=Integer.parseInt(S1[0]);
                Node head= new Node(a1);
        llist.addToTheLast(head);
       for (int i = 1; i < N; i++)
                {
                     int a = Integer.parseInt(S1[i]);
                     llist.addToTheLast(new Node(a));
                }
     Solution ob = new Solution();
          Node newhead=ob.reverseBetween(llist.head, m, n);
```

```
llist.printList(newhead);
  }
class Solution
  public static Node reverseBetween(Node head, int m, int n)
     //code here
       Stack<Node>sk=new Stack<>();
        Node p=head;
       Node ans=null;
       Node a=null;
       for(int i=1;i<m;i++)
              p=p.next;
    for(int i=m;i<=n;i++)
                  sk.push(p);
              p=p.next;
       if(m==1)
       {
             ans=sk.pop();
               a=ans;
             while(!sk.empty())
                  {
                       a.next=sk.pop();
                       a=a.next;
```

```
a.next=p;
        return ans;
   }
      ans=head;
              a=ans;
for(int i=2;i<m;i++)
        a=a.next;
                while(!sk.empty())
             {
                   a.next=sk.pop();
                   a=a.next;
        a.next=p;
   return ans;
```