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EASY

Max Score: 30 Points

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# Insert node at a specific position in a linked-list

Given a linked list and an integer to insert at a certain position, create a new node with the given integer as its data attribute, insert this node at the desired position and print the new linked list.

A position of 0 indicates head, a position of 1 indicates one node away from the head and so on.

## **Input Format**

The first line contains an integer n, the number of elements in the linked list.

The next line contains n spaced integers data of the nodes of the linked list.

The last line contains two spaced integers, the data of the new node to be inserted and the position at which it should be inserted.

### **Output Format**

The only line contains (n+1) spaced integers, the new elements of the linked list, from head to tail.

## Example 1

Input

3 16 13 7

#### Output

```
16 13 1 7
```

#### Explanation

The initial linked list is 16->13->7. Insert 1 at the position 2, which currently 7 has in it. The updated linked list is 16->13->1->7

## Example 12

Input

```
5
1 2 3 5 6
4 3
```

#### Output

1 2 3 4 5 6

#### Explanation

The initial linked list is 1->2->3->5->6. Insert 4 at the position 4, which currently 5 has in it. The updated linked list is 1->2->3->4->5->6

#### **Constraints**

```
1 <= n <= 100
1 <= data of node <= 1000
0 <= position <= n</pre>
```

#### **Topic Tags**

#### Linked lists

## My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;
class Node
  int data;
  Node next;
  Node(int data, Node next)
  {
     this.data = data;
     this.next = next;
  }
  Node() {}
public class Main
 static void display(Node h)
  Node p=h;
```

```
while(p!=null)
     System.out.print(p.data+" ");
     p=p.next;
static Node inst(Node a,int data,int position)
   {
     Node b=a;
     Node d = new Node();
     d.data=data;
     if(position==0){ d.next=a;a=d;return a;}
  else { for(int i=1;i<position;i++)</pre>
      a=a.next;
     d.next=a.next;
     a.next=d;
     return b;
  }
     public static void main (String[] args) throws java.lang.Exception
           //your code here
    Scanner s=new Scanner(System.in);
    Node a=null;
    int n=s.nextInt();
    int arr[]=new int[n];
```

```
for(int i=0;i<n;i++)
  arr[i]=s.nextInt();
  for(int i=n;i>0;i--)
  a=new Node(arr[i-1], a);
    int data=s.nextInt();
    int pos=s.nextInt();
  Node h=inst(a,data,pos);
  display(h);
}
```