/*Date : 31-07-25

You are managing a list of tasks for a project using a singly linked list. Each task has a unique ID and a name. The tasks are arranged based on the order in which they are added.

Write a program that removes a task from a specific position in the linked list (0-based index).

Input Format:

• The first line contains an integer n, the number of initial tasks.

• The next n lines contain two values each: an integer id and a string name, representing each task.

• The next line contains an integer pos, the position of the task to be removed.

Output Format:

• Print the updated task list after deletion, each task on a new line in the format:

id name

• If the position is invalid, print:

Invalid position

Constraints:

• 0 <= n <= 1000

• 0 <= id <= 10000

• 1 <= name length <= 20

• 0 <= pos < n

Sample Input:

4

101 Design

102 Development

103 Testing

104 Deployment

2

Sample Output:

101 Design

102 Development

104 Deployment*/

package hacckerank;

```
import java.util.*;
class TaskProject
{
	int task_id;
	String pro_name;
	TaskProject next;
	public TaskProject(int task_id,String pro_name)
	{
		this.task_id=task_id;
		this.pro_name=pro_name;
		this.next=null;
	}
}
public class july31hthr6
{
	TaskProject head;
	void insertAtEnd(int task_id,String pro_name)
	{
		TaskProject newNode=new TaskProject(task_id,pro_name);
		if(head==null)
		{
			head=newNode;
			return;
		}
		TaskProject temp=head;
		while(temp.next!=null)
		{
			temp=temp.next;
		}
		temp.next=newNode;
	}
```

```
void deleteAtPosition(int pos)
{
	if(pos<0|| head==null)
	{
		System.out.println("No position or element exits");
		return;
	}
	if(pos==0)
	{
		head=head.next;
		return;
	}
	TaskProject temp=head;
	int index=0;
	while(temp!=null&&index<pos-1)
	{
		temp=temp.next;
		index++;
	}
	if(temp==null||temp.next==null)
	{
		System.out.println("The position is not available");
		return;
	}
	temp.next=temp.next.next;


}
void display()
{
	if(head==null)
```

```
		{
			System.out.println("No element exixts");
			return;
		}
		TaskProject temp=head;
		while(temp!=null)
		{
			System.out.println(temp.task_id+" "+ temp.pro_name);
			temp=temp.next;

		}
}
public static void main(String[] args)
{
		july31hthr6 pt=new july31hthr6();
		Scanner sc=new Scanner(System.in);
		int no=sc.nextInt();
		for(int i=0;i<no;i++)
		{
			int task_id=sc.nextInt();

			String pro_name=sc.nextLine().trim();
			pt.insertAtEnd(task_id,pro_name);
		}
		pt.display();
		int pos=sc.nextInt();
		pt.deleteAtPosition(pos);
		pt.display();


}
```

}