https://course.acciojob.com/idle?question=e33091af-154f-43a1-8ee3 -2d1a68f06636

EASY

Max Score: 30 Points

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Odd Even Linked List

You are given a linked List consisting of N nodes.

Your task is to rearrange the linked list in such a way that all odd position nodes are together and before all even positions nodes.

Input Format

The first line contains the number of test cases.

For each test case: You are given a head pointer for the linked list.

Output Format

For each test case print an array in a new line, denoting the values of the changed Linked List.

Example 1

Output

1 3 2 4

Explanation:

The Initial Linked List looks like:

```
1 -> 2 -> 3 -> 4
```

odd-positioned elements are brought together before all even-positioned elements

The Linked List after the operation looks like this:

```
1 -> 3 -> 2 -> 4
```

Example 2

Input

1 4 1 3 5 2

Output

1 5 3 2

Explanation

The odd position elements are brought together.

Constraints

```
1 <= T <= 10
1 <= N <= 10^4
1 <= L[i] <= 10^5
```

Topic Tags

Linked lists

My code

```
// n java
import java.util.*;
class Main {
     Node head;
     Node temp;
     class Node {
          int data;
          Node next;
          Node(int d)
          {
                data = d;
                next = null;
          }
     }
     public void oddEvenList(Node head) {
          //Write code here
     Node h=head;
     while(h!=null)
        {
          System.out.print(h.data+"");
          if(h.next==null ||h.next.next==null)
             break;
          h=h.next.next;
     h=head.next;
```

```
while(h!=null)
  {
     System.out.print(h.data+"");
     if(h.next==null ||h.next.next==null)
       break;
     h=h.next.next;
System.out.print("\n");
public void push(int new_data)
     if(head == null){
          head = new Node(new_data);
          temp =head;
          return;
     else{
          Node new_node = new Node(new_data);
          temp.next = new_node;
          temp=temp.next;
          return;
     }
```

```
}
public static void main(String args[])
     Scanner sc = new Scanner(System.in);
     Main ob = new Main();
     int t=0;
     t = sc.nextInt();
     while(t-->0){
           ob.head=null;
           int n=0;
           n=sc.nextInt();
           int tn = n;
           while(tn-->0){
                int x=0;
                x = sc.nextInt();
                ob.push(x);
  ob.oddEvenList(ob.head);
     }
     sc.close();
     return;
}
```