https://course.acciojob.com/idle?question=df6b3864-5e94-4464-aaa8-92b9bb1df9ba

- EASY
- Max Score: 30 Points
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Swap pairwise node in linked list

Your are given a linked List consisting of `N` nodes. Your task is to swap elements pairwise.

You have to complete `pairWiseSwap` function which consists of `head` node as input and prints the linkedlist after required operation

Input Format

The first line contains the number of test cases. For each test case:

Second line consists of a single integer n denoting length of linked list.

Third line consists of N space separated integers denoting the elements of 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

Input

```
1
4
1 2 3 4
```

Output

```
2 1 4 3
```

Explanation

The Initial Linked List looks like:

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

The elements in array are pairwise swapped.

The Linked List after swapping looks like:

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

Example 2

Input

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

Output

```
3 1 2 5
```

Explanation

The elements are pairwise swapped.

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(true)
      {
                int t1=0;
                int t2=0;

        if(h!=null)
                        {
                                t1=h.data;
                                h=h.next;
                        }
          else  break;
                         if(h!=null)
                        {
                                t2=h.data;
                                h=h.next;
                        }
                        else
                         {
                                 System.out.print(t1+" ");
                                 break;
                         }

                        System.out.print(t2+" ");
                System.out.print(t1+" ");
    }


 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;
        }
}




/*import java.util.*;



public class Main {
    public static void main(String[] args) throws Throwable {
        Scanner sc = new Scanner(System.in);
        int t= sc.nextInt();
        while(t-->0){
            int n = sc.nextInt();
            LinkedList llist= new LinkedList();
            int a1=sc.nextInt();
            Node head= new Node(a1);
            llist.addToTheLast(head);
            for (int i = 1; i < n; i++)
            {
                int a = sc.nextInt();
                llist.addToTheLast(new Node(a));
            }

            Solution A = new Solution();
            A.pairWiseSwap(llist.head);
        }


    }
}

class Node
    {
        int data;
        Node next;
        Node(int d) {data = d; next = null; }
    }

class LinkedList
{
    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 temp = head;
        while (temp != null)
        {
           System.out.print(temp.data+" ");
           temp = temp.next;
        }
        System.out.println();
    }

}

class Solution
{

        void pairWiseSwap(Node head)
        {
                // Write your code here
                if(head==null ||head.next==null)
                        return;
                Node p=head;
                head=head.next;
```

```
         p.next=head.next;
          head.next=p;
        while(true)
            {
                if(p.next==null || p.next.next==null)
                    break;
                Node t= p.next;
                p.next=p.next.next;
                t.next=p.next.next;
                p.next.next=t;
                p=t;
            }



    }


}*/
```