Delete Alternate Nodes 1

Given a Singly Linked List of integers, delete all the alternate nodes in the list. Example: List: 10 -> 20 -> 30 -> 40 -> 50 -> 60 -> null Alternate nodes will be: 20, 40, and 60. Hence after deleting, the list will be: Output: 10 -> 30 -> 50 -> null

Input Format

The first and the only line of input will contain the elements of the Singly Linked List separated by a single space and terminated by -1.

Constraints

1 <= N <= 10 ^ 6. Where N is the size of the Singly Linked List Time Limit: 1 sec

Output Format

The only line of output will contain the updated list elements.

Sample Input 0

```
10 20 30 40 50 60 70 -1
```

Sample Output 0

```
10 30 50 70
```

Contest ends in a month

Submissions: 56
Max Score: 10
Difficulty: Medium

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Java 7

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

class node{
    int data;
    node next;
    node(int data){
        this.data=data;
        this.next=null;
    }
}

public class Solution {
```

```
17
18      public static void main(String[] args) {
19          Scanner sc=new Scanner(System.in);
20          node head=null;
21          node tail=null;
22          int n=1;
23          while(sc.hasNext()){
24              int val=sc.nextInt();
25              if(val==-1)
26                  break;
27              if(n%2==0){
28                  n++;
29                  continue;
30              }
31
32              node nn=new node(val);
33              if(head==null)
34                  head=nn;
35              else
36                  tail.next=nn;
37              tail=nn;
38              n++;
39          }
40          node temp=head;
41          while(temp.next!=null){
42              System.out.print(temp.data+" ");
43              temp=temp.next;
44          }
45          System.out.print(temp.data);
46      }
47  }
```

Line: 1 Col: 1

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