

[All Tracks](#) > [Data Structures](#) > [Linked List](#) > > Problem

# Reversed Linked List



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PROBLEM

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You are given a linked list that contains  $N$  integers. You have performed the following reverse operation on the list:

- Select all the subparts of the list that contain only even integers. For example, if the list is  $\{1, 2, 8, 9, 12, 16\}$ , then the selected subparts will be  $\{2, 8\}$ ,  $\{12, 16\}$ .
- Reverse the selected subpart such as  $\{8, 2\}$  and  $\{16, 12\}$ .

Now, you are required to retrieve the original list.

**Note:** You should use the following definition of the linked list for this problem:

```
class Node {  
    Object data;  
    Node next;  
}
```

## Input format

- First line:  $N$
- Next line:  $N$  space-separated integers that denote elements of the reverse list

## Output format

Print the  $N$  elements of the original list.

## Constraints

$$1 \leq N \leq 10^3$$

$$1 \leq A_i \leq 10^9$$

### SAMPLE INPUT



```
9  
2 18 24 3 5 7 9 6 12
```

### SAMPLE OUTPUT



```
24 18 2 3 5 7 9 12 6
```

## Explanation

In the sample, the original list is  $\{24, 18, 2, 3, 5, 7, 9, 12, 6\}$  which when reversed according to the operations will result in the list given in the sample input.



**Time Limit:** 1.0 sec(s) for each input file.

**Memory Limit:** 256 MB

**Source Limit:** 1024 KB

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