Reversed Linked List

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Attempted by: **2892** / Accuracy: **86%** / Maximum Points: **20** / 100 Votes / Share

Data Structures, Linked list, Singly Linked List

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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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CONTRIBUTORS

THIS PROBLEM WAS ASKED IN

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