Problem 1

Given an initial empty singly linked list, you need to insert elements to the list, reverse the list and print the new list.

Input:

Integer T indicating Number of test cases.

Description of the test case is as follows-:

- Each line of the test case will consist of two numbers **until a 0 is encountered**.
- First number indicates the location where the element is to be inserted in the list and the second number indicates the value of the element to be inserted.
- There are two ways in which an element can be inserted
    - '-1' indicates beginning of the list
    - '1' indicates end of the list

Output:

For each test case, first reverse the linked list and then display the modified list on a new line.

Note -: List will have at least one element.

Constraint:

Easy

$1 \leq T \leq 10$

$1 \leq ValueOfElement \leq 100$

Medium

$1 \leq T \leq 10^4$

$1 \leq ValueOfElement \leq 10^7$

Time Limit -: 1 second

Sample Input

2

-1 8

-1 1

1 2

0

1 1
0

Sample Output

2 8 1
1

Explanation :
For the first case, list formed is 1->8->2. Reversing the list gives us 2->8->1.