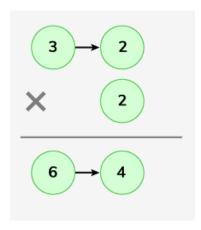
Given elements as nodes of the two singly linked lists. The task is to multiply these two linked lists, say L1 and L2.

Note: The output could be large take modulo 10^9+7.

Examples:

Input: LinkedList L1: 3->2, LinkedList L2: 2

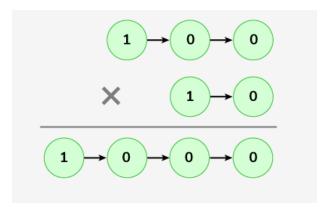
Output: 64 Explanation:



Multiplication of 32 and 2 gives 64.

Input: LinkedList L1: 1->0->0, LinkedList L2: 1->0

Output: 1000 Explanation:



Multiplication of 100 and 10 gives 1000.

```
Expected Time Complexity: O(max(n,m))
Expected Auxilliary Space: O(1)
where n is the size of L1 and m is the size of L2
Constraints:
1 <= number of nodes <= 105
1 <= node->data <= 103
Solution:
class Solution {
  final static int mod=1000000007;
  public long multiplyTwoLists(Node first, Node second) {
    long num1 = 0;
    long num2 = 0;
    // Convert the first linked list to a number modulo mod
    while (first != null) {
      num1 = (num1 * 10 + first.data) % mod;
      first = first.next;
    }
    // Convert the second linked list to a number modulo mod
    while (second != null) {
      num2 = (num2 * 10 + second.data) % mod;
      second = second.next;
    }
    // Multiply the two numbers and return the result modulo mod
    return (num1 * num2) % mod;
 }
}
```