

Multiply two strings

Given two numbers as strings s1 and s2. Calculate their Product.

Note: The numbers can be negative and You are not allowed to use any built-in function or convert the strings to integers. There can be zeros in the beginning of the numbers.

Example 1:

```
Input:  
s1 = "0033"  
s2 = "2"  
Output:  
66
```

Example 2:

```
Input:  
s1 = "11"  
s2 = "23"  
Output:  
253
```

Your Task: You don't need to read input or print anything. Your task is to complete the function **multiplyStrings()** which takes two strings s1 and s2 as input and returns their product as a string.

Expected Time Complexity: $O(n_1 * n_2)$

Expected Auxiliary Space: $O(n_1 + n_2)$; where n_1 and n_2 are sizes of strings s1 and s2 respectively.

Constraints:

$1 \leq \text{length of s1 and s2} \leq 10^3$