

Multiply Strings

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Total

Question

Solution

Accepted:

40484 Total Submissions: **191547** Difficulty: **Medium**

Given two numbers represented as strings, return multiplication of the numbers as a string.

Note: The numbers can be arbitrarily large and are non-negative.

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Python



```
1 class Solution(object):
2     def multiply(self, num1, num2):
3         """
4         :type num1: str
5         :type num2: str
6         :rtype: str
7         """
8         len1=len(num1);len2=len(num2)
9         mul = [0 for i in range(len1+len2+1)]
10        for i in range(len1):
11            for j in range(len2):
12                mul[(len1-1-i)+(len2-1-j)] += (ord(num1[i])-ord('0')) * (ord(num2[j])-ord('0'))
13            i=0
14            while i<len1+len2:
15                mul[i+1] += mul[i]/10;
16                mul[i] = mul[i]%10
17                i+=1
18            i=len1+len2-1
19            while i>=0 and mul[i]==0:
20                i-=1
21            if i==-1:
22                return "0"
23            multi =['' for j in range(i+1)]
24            for j in range(i+1):
25                multi[i-j] = chr(ord('0')+mul[j])
26            return "".join(multi)
```

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"999"

"999"

One line for one parameter.

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