Very Fast Multiplication

Multiply the given numbers.

Input

n [the number of multiplications <= 101]

l1 l2 [numbers to multiply (at most 300000 decimal digits each)]

Text grouped in [ ] does not appear in the input file.

Output

The results of multiplications.

Example

Input:
5
4 2
123 43
324 342
0 12
9999 12345

Output:
8
5289
110808
0
123437655

Warning: large Input/Output data, be careful with certain languages