## Caribbean Online Judge

## 1188 - Cow Multiplication

## Description

Bessie is tired of multiplying pairs of numbers the usual way, so she invented her own style of multiplication. In her style, A\*B is equal to the sum of all possible pairwise products between the digits of A and B. For example, the product 123\*45 is equal to 1\*4 + 1\*5 + 2\*4 + 2\*5 + 3\*4 + 3\*5 = 54. Given two integers A and B (1 <= A, B <= 1,000,000,000), determine A\*B in Bessie's style of multiplication.

Input specification

Two space-separated integers: A and B.

Output specification

A single line that is the A\*B in Bessie's style of multiplication.

Sample input

123 45

Sample output

54

Hint(s)

Source USACO Online Judge. 2008 February

Bronze

Added by ejaltuna

Addition date 2011-10-13 10:03:18.0

Time limit (ms) 10000

Test limit (ms) 1000

Memory limit (kb) 131072