Urdhva - Tiryag Bhyam

Given two large digit numbers find there product.

Input

1st line contain number of test cases T. Each of which followed by two numbers N1 and N2 (these are strings).

 $1 <= T <= 10^5$, 1 <= |N1| <= 1000 & <math>1 <= |N2| <= 1000

Output

or each test case print product of these two numbers in separate line with no leading zero values.

Example

Input:

2

69

92

Output:

54

18