Problem Statement 9:

Given two big-Integers A[] and B[]. Perform the product of these two numbers and print the resultant. Use the following function protoypes.

void product(char A[ ], char B[ ], char result[ ]);

void scalarProduct(char A[ ], int x, char result[ ]);

void appendZerosRight(char B[ ], int k, char result[ ]);

void addBigIntegers(char A[ ], char B[ ], char result[ ]);

 Input :

First line specifies t, the number of test cases. Next t lines consists of a two space separated big integers A[] and B[].

Output:

For each test case print the product of A and B.

Constraints:

1<=t<=100

1<=length of A, B<=100

Sample Input:

3

100 1111111111111111111111111111

1000000000000000000000000000000000000000000000000 0

123 2

Sample Output:

111111111111111111111111111100

0

246