# **Very Fast Division**

Given two positive integers A and B, compute the unique Q and R such that A = Q \* B + R and 0 <= R < B. That is, compute the quotient, Q, and the remainder, R, of A divided by B.

### Input

The first line contains a single integer T ( $1 \le T \le 10$ ), indicating the number of test cases. Each test case contains a single line with A and B separated by a space. A and B will be positive integers with no more than 100,000 decimal digits with no leading zeroes.

## Output

For each test case output a single line containing Q and R separated by a space.

## Example

#### Input:

3 128 10 4320 321 1234567890098765432112345678900987654321 98765432100123456789

#### Output:

12 8 13 147 12499999887078125001 82208718896223572532

**Note**: Submissions that are little more than using your language's built in big integer library are subject to disqualification without notice.