Division

Description

For any two integers, *a* and *b*, given, find the quotient and the remainder on division
a ÷ *b*.

Input

The input consists of *T* test cases. The number of test cases *T* is given in the first line of input (1 ≤ *T* ≤ 500). For each test case, the dividend, *a*, and the divisor, *b*, are given on a single line, separated by a space (1 ≤ *b* ≤ *a* ≤ 1000).

Output

For each test case, you should print the quotient and the remainder on a single line, separated by a space.

Sample

Input Output

4 7 3 10 2 59 13 5 1	2 1 5 0 4 7 5 0