# Robbery

**k** bandits robbed a bank. They took away **n** gold coins. Being a progressive group of robbers they decided to use the following procedure to divide the coins. First the most respected bandit takes **1** coin, then the second respected takes **2** coins, ..., the least respected takes **k** coins, then again the most respected takes **k+1** coins, ans so on, until one of the bandits takes the remaining coins. Calculate how much gold each of the bandits gets.

#### Input

The first line of the input contains number t – the amount of tests. Then t test descriptions follow. Each test consists of two integers n and k - the amount of coins and bandits respectively.

## Constraints

 $1 \le t \le 500$  $1 \le n \le 10^9$  $2 \le k \le 100$ 

## Output

For each test print the amounts of coins each bandit gets separated by spaces.

## Example

#### Output:

46 533 3234