

# 2012 ACU Programming Contest Series

## Problem 2: Set

The Amalgated Consortium Union (ACU) recently discovered a useful (see Problem 3) set of non-negative integers generated by the following function.

$$g(i, j) = \{ nj + i \bmod j + 1, nj + i \bmod j + 2, \dots, nj + j - 1 \mid n=0, 1, \dots, i / j \}$$

Create a program to generate, in ascending order, the set of integers in  $g(i, j)$ .

### Input

The first line will contain the number of data sets to process.

Each data set consists of a single line containing non-negative integer  $i$  and positive integer  $j$  separated by a single space. Both  $i$  and  $j$  will be less than 100.

Sample input:

```
4
7 5
16 5
99 10
0 8
```

### Output

Each data set should produce a single line of integers separated by a single space.

Sample output:

```
3 4 8 9
2 3 4 7 8 9 12 13 14 17 18 19
1 2 3 4 5 6 7
```