# 10624 Super Number

Don't you think **162456723** very special? Look at the picture below if you are unable to find its speciality. (a|b means b is divisible by a)

```
1 | 1
2 | 16
3 | 162
4 | 1624
5 | 16245
6 | 162456
7 | 1624567
8 | 16245672
9 | 162456723
```

Figure: Super Numbers

Given n, m (0 < n < m < 30), you are to find a m-digit positive integer X such that for every i ( $n \le i \le m$ ), the first i digits of X is a multiple of i. If more than one such X exists, you should output the lexicographically smallest one. Note that the first digit of X should **not** be 0.

## Input

The first line of the input contains a single integer t ( $1 \le t \le 15$ ), the number of test cases followed. For each case, two integers n and m are separated by a single space.

#### Output

For each test case, print the case number and X. If no such number, print '-1'.

## Sample Input

2

1 10

3 29

### Sample Output

Case 1: 1020005640

Case 2: -1