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


Figure: Super Numbers
Given $n$, $m(0<n<m<30)$, you are to find a $m$-digit positive integer $X$ such that for every $i$ ( $n \leq i \leq m$ ), 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 $t(1 \leq t \leq 15)$, 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
110
329

## Sample Output

Case 1: 1020005640
Case 2: -1

