

Bob has n matches. He wants to compose numbers using the following scheme (that is, digit 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 needs 6, 2, 5, 5, 4, 5, 6, 3, 7, 6 matches):

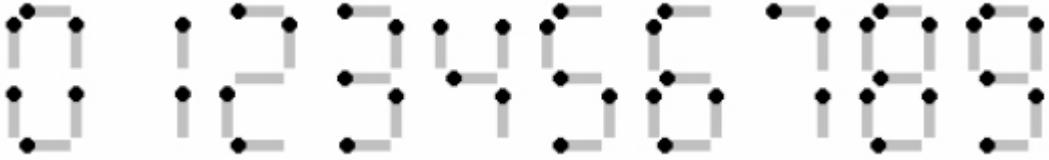


Fig 1 Digits from matches

Write a program to make a non-negative integer which is a multiple of m . The integer should be as big as possible.

Input

The input consists of several test cases. Each case is described by two positive integers n ($n \leq 100$) and m ($m \leq 3000$), as described above. The last test case is followed by a single zero, which should not be processed.

Output

For each test case, print the case number and the biggest number that can be made. If there is no solution, output '-1'. Note that Bob don't have to use all his matches.

Sample Input

```
6 3
5 6
0
```

Sample Output

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Case 1: 111
Case 2: -1
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