

## D. Sum and Sum

Time limited: 5 seconds

### Problem Description

Minh counts the number of  $A$  with  $0 \leq A < 10^n$  such that the sum of the digits of  $A$  is the sum of the digits of  $A * m$ . Because he is so tired so Minh ask you help him.

### Input

There are several lines in each line that are 2 integer number  $n, m$  ( $1 \leq n \leq 18, 1 \leq m \leq 100$ )

### Output

For each test print a line is the answer

### Example

18 1	1000000000000000000
1 2	2