LCD

A friend of yours has just bought a new computer. Until now, the most powerful computer he ever used has been a pocket calculator. Now, looking at his new computer, he is a bit disappointed, because he liked the LCD-display of his calculator so much. So you decide to write a program that displays numbers in an LCD-display-like style on his computer.

Input

The input contains several lines, one for each number to be displayed.
Each line contains two integers ***s***, ***n***

$$1 \leq \mathbf{s} \leq 10,$$
$$0 \leq \mathbf{n} \leq 99\ 999$$

, where ***n*** is the number to be displayed and ***s*** is the size in which it shall be displayed.
The input should be terminated by a line containing two zeros.

Output

Output the numbers given in the input file in an LCD-display-style using ***s*** "-" signs for the horizontal segments and ***s*** "|" signs for the vertical ones. Each digit occupies exactly ***s*+2** columns and **2*s*+3** rows. (Be sure to leave a space between the output digits.) There has to be exactly one column of blanks between two digits.

Output a blank line after each number. (You will find a sample of each digit in the sample output.)

Sample Input

```
2 12345
3 67890
0 0
```

Sample Output

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```