

LCD Display

A friend of yours has just bought a new computer. Before this, the most powerful machine he ever used was a pocket calculator. He is a little disappointed because he liked the LCD display of his calculator more than the screen on his new computer! To make him happy, write a program that prints numbers in LCD display style.

Input

Input contains integers s and n , where n is the number to be displayed ($0 \leq n \leq 99,999,999$) and s is the size in which it shall be displayed ($1 \leq s \leq 5$).

Output

Print the input numbers on screen using “-” signs for the horizontal segments and “|” signs for the vertical ones.

Each digit occupies exactly $s + 2$ columns and $2s + 3$ rows. Be sure to fill all the white space occupied by the digits with blanks, including the last digit. There must be exactly one column of blanks between two digits. Output a blank line after each number.

Sample Input

2 12345

3 67890

Sample Output –

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