#include <stdio.h>

#include <stdlib.h>

#include <string.h>

int lines, columns;

char num[23][12], number[8][23][12];

void set\_size(int size)

{

lines = 2\*size+3;

columns = size+2;

}

void clearLcd()

{

int i;

for (i=0;i<lines;i++)

{

int j;

for (j=0;j<columns;j++)

{

columns;

num[i][j] = ' ';

}

}

}

void drawLine(int lnum)

{

int j;

for (j=1;j<columns-1;j++)

{

num[lnum][j] = '-';

}

}

void first\_line()

{

drawLine(0); //line one

}

void middle\_line()

{

drawLine(lines/2); //line 4

}

void last\_line()

{

drawLine(lines-1); //line 8

}

void first\_column(int cnum)

{

int i;

for (i=1;i<lines/2;i++) //line 1 - line 3

{

num[i][cnum] = '|';

}

}

void last\_column(int cnum)

{

int i;

for(i=(lines/2)+1;i<lines-1;i++) //line 5 - line 8

{

num[i][cnum] = '|';

}

}

void first\_left\_col()

{

first\_column(0);

}

void last\_left\_col()

{

last\_column(0);

}

void first\_right\_col()

{

first\_column(columns-1);

}

void last\_right\_col()

{

last\_column(columns-1);

}

void printLcd(int position)

{

int i;

for (i=0;i<lines;i++)

{

int j;

for(j=0;j<columns;j++)

{

number[position][i][j] = num[i][j];

//printf("%d\n",num [i][j]) ;

}

}

//printf("%d\n",num [i][j]) ;

}

void printZero(int position)

{

clearLcd();

first\_line(); // ---

first\_left\_col(); //

first\_right\_col();

last\_left\_col();

last\_right\_col();

last\_line();

printLcd(position);

}

void printOne(int position)

{

clearLcd();

first\_right\_col();

last\_right\_col();

printLcd(position);

}

void printTwo(int position)

{

clearLcd();

first\_line();

first\_right\_col();

middle\_line();

last\_left\_col();

last\_line();

printLcd(position);

}

void printThree(int position)

{

clearLcd();

first\_line();

first\_right\_col();

middle\_line();

last\_right\_col();

last\_line();

printLcd(position);

}

void printFour(int position)

{

clearLcd();

first\_left\_col();

first\_right\_col();

middle\_line();

last\_right\_col();

printLcd(position);

}

void printFive(int position)

{

clearLcd();

first\_line();

first\_left\_col();

middle\_line();

last\_right\_col();

last\_line();

printLcd(position);

}

void printSix(int position)

{

clearLcd();

first\_line();

first\_left\_col();

middle\_line();

last\_left\_col();

last\_right\_col();

last\_line();

printLcd(position);

}

void printSeven(int position)

{

clearLcd();

first\_line();

first\_right\_col();

last\_right\_col();

printLcd(position);

}

void printEight(int position)

{

clearLcd();

first\_line();

first\_left\_col();

first\_right\_col();

middle\_line();

last\_left\_col();

last\_right\_col();

last\_line();

printLcd(position);

}

void printNine(int position)

{

clearLcd();

first\_line();

first\_left\_col();

first\_right\_col();

middle\_line();

last\_right\_col();

last\_line();

printLcd(position);

}

void printNumber(int n, int position)

{

void (\*functions[10])(int position) = {

printZero,

printOne,

printTwo,

printThree,

printFour,

printFive,

printSix,

printSeven,

printEight,

printNine

};

functions[n](position);

}

int main()

{

int size = 0;

char string[9];

scanf("%d %s", &size, string);

while(size!=0 || atoi(string)!=0)

{

set\_size(size);

int length = strlen(string);

int i;

for (i=0;i<length;i++)

{

int n = string[i]-'0';

printNumber(n, i);

}

for(i=0;i<lines;i++)

{

int n;

for(n=0;n<length;n++)

{

int j;

for(j=0;j<columns;j++)

{

printf("%c", number[n][i][j]);

}

if (n<length-1)

{

printf(" "); //column of blanks

}

}

printf("\n");

}

printf("\n");

scanf("%d %s", &size, string);

}

return 0;

}