CS417 Programming Assignment 3

Due: Wednesday, September 30, before midnight.

Late penalty: Thu 5%, Fri 10%, Sat/Sun/Mon 20%, Tue 50%, Wed 100%.

Synopsis

Write a program called banner.py that prints large text on the terminal.

Details

Your program should work with text, supplied through command-line arguments. It should join the arguments into a single message, with words separated by spaces. Then, it should print out the message, using X's arranged in 5×7 blocks.

For example, if the user runs the program thus:

```
python banner.py Hello WORLD HOW byebye
```

The program should print this:

Χ	Χ		XX	XX			X X	XXX	XXXX	Χ
Χ	Χ		Χ	Χ			Х Х	X X	X X	Χ
Χ	Χ	XXX	Χ	Χ	XXX		Х Х	X X	X X	Χ
XXX	XΧ	X X	Χ	Χ	Х Х		X X X	X X	XXXX	Χ
Χ	Χ	XXXXX	Χ	Χ	X X		X X X	Х Х	ХХ	X
Χ	Χ	Χ	Χ	Χ	Х Х		XX XX	X X	ХХ	Χ
Χ	Χ	XXXX	Χ	Χ	XXX		X X	XXX	X X	XXXXX
XXX	ίX		Χ			Χ				
Χ	Χ		Χ	Х Х		Χ	Х Х			
Χ	Χ		Χ	X X	XXX	Χ	х х	XXX		
Χ	Χ		XXX	XXXX	X X	XXX	XXXX	Х Х		
Χ	Χ		ХХ	Χ	XXXXX	ХХ	Χ	XXXXX		
Χ	Χ		ХХ	X X	Χ	ХХ	х х	Χ		
XXX	ίX		XXX	XXX	XXXX	XXX	XXX	XXXX		

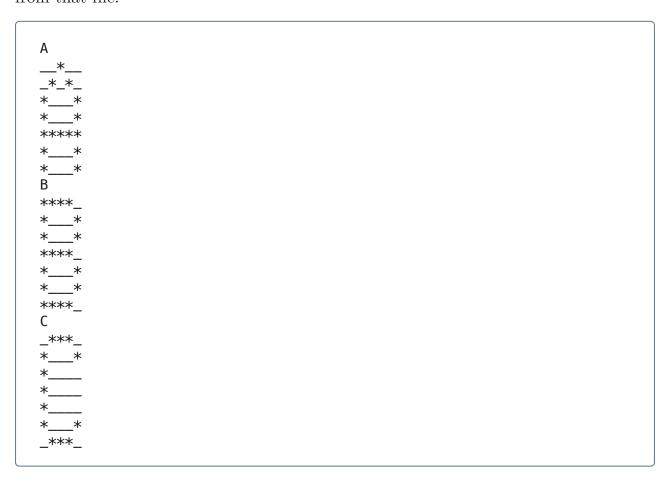
Notice the following details:

• Each character is displayed in a block of X's and spaces. Each block is 5 wide,

- and 7 high.
- In the output, there is a single blank line between each line of blocks. There are *two* blank columns between blocks.
- Each output line has at most 76 X's and spaces, or at most 10 blocks.
- If the text is longer than 10 characters, it should wrap to start a new line, ignoring word boundaries.

Blocks

I am providing a file with 5×7 blocks, called matrix_5x7.txt. Here is a sample from that file:



Notice that each symbol is represented using 8 lines of the file: the first line has the symbol, and the next 7 lines have the block, using * and _ characters.

Special Characters

Warning: on Linux, OSX, and Windows, some characters have special meaning. For example, the asterisk * will be replaced by the names of all the files in the current directory! You may have to surround them with quotes:

```
python banner.py a "*" b
```

Character	Meaning
*	expand to all filenames
&	run program in background
>	send output to a file
<	read input from a file
	send output to another program's input

Turn in your work

To turn you work in, go to mycourses.unh.edu, find CS417 and assignment #3, click the "Submit" button, and upload banner.py