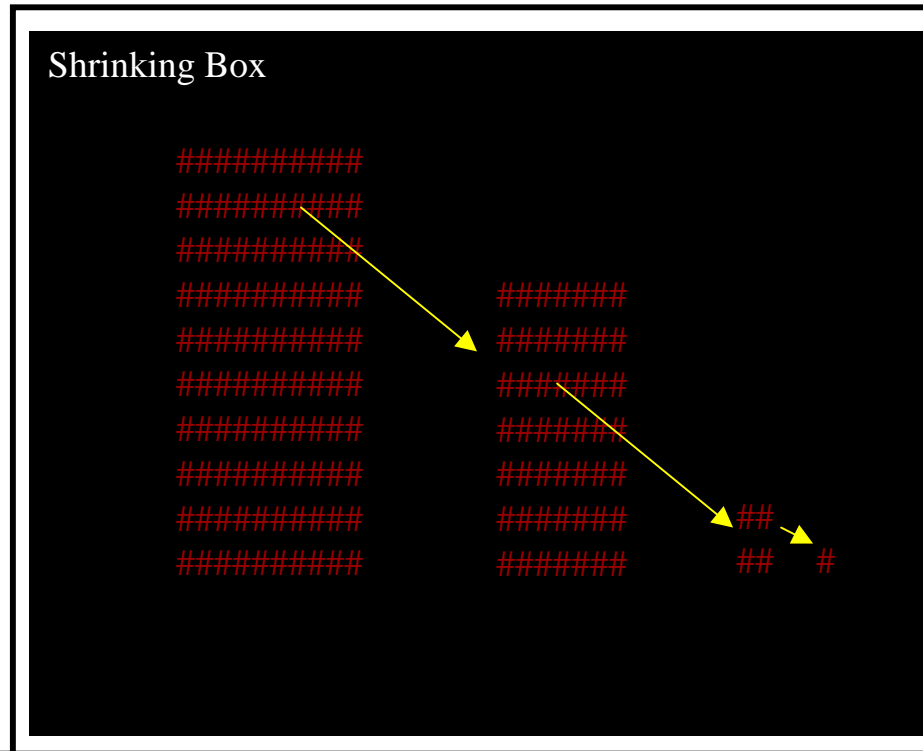


Exam Instructions

1. Any attempt to communicate with another student by any means is a serious offence and will result in all parties involved receiving zero marks and being referred to the disciplinary Committee.
2. You must use your assigned computer unless it is not working properly in which case, a supervisor will assign you to a new computer.
3. You must bring in your Student ID card and place it on your assigned computer.
4. The exam will last for 1 hour. You must arrive in the first half hour. You may not leave in the first half hour.
5. The exam is open book and you have access to any material covered in lectures or labs.
6. You may not run any program other than COMMAND prompt, TASM, TLINK and an editor (e.g. notepad/editplus).
7. There is one program to be completed in full to get the marks.

Exam problem is described on next page..



- a) On a blank Screen print out the words “Shrinking Box” and wait for a keypress
- b) After any key has been pressed draw a Red Box on a blank screen 10 characters wide and 10 Characters Tall at screen position Row 5 and Column 10.
- c) When the ”s” key is pressed the box moves diagonally down the screen to the right shrinking by one every step { 10x10 becomes 9x9 becomes 8x8 box etc }
- d) When the box has shrunk to one character the program is finished

NOTES

The Box appears to shrink so the program must run at a speed that allows this to be seen.

At the finish only one red character is left on the screen.

The program must use a Procedure called DrawBox which is called multiple times (No brute force attempts)