

- Homework turned in after the deadline, will not be graded.
- Submit question #1 code to manhattan.

Question #1 (80 points)

Redo question #1 from the previous homework using function pointers.

Question #2 (20 points)

Refer to the class slides that deals with the following code (the old IBM-PC 80 col x 40 rows, display buffer).

```
#define DISP_BUFFER 0xB8000
int row, col;
char disp_char;
char *p;
//      Let's display "A" in row 4, col 20
disp_char = 'A';
row = 4;      // for example ...
col = 20;     // "    "

p = (char *) (DISP_BUFFER + 2 *(80*row + col))
*p = disp_char;
```

Complete this example: write code to set the byte which controls the color of the character A we just displayed. Assume the color byte should be assigned the value COLOR_BYTE.

The color byte has 2 4-bit fields which set the background color (16 possible colors) and the character color (16 possible colors).