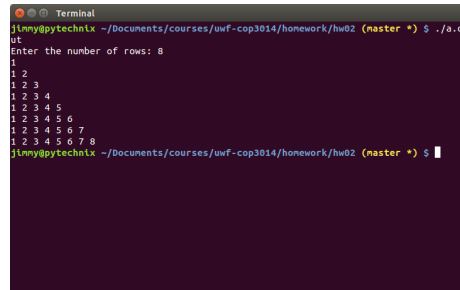


HW01 - Due Monday 25 January 2016 before
11:59PM

Dr. Touma

January 15, 2016

1. Write a C program that displays the half-pyramid (*half_pyramid.c*). Ask the user for the number of rows.



```
Terminal
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $ ./a.o
ut
Enter the number of rows: 8
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
1 2 3 4 5 6 7 8
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $
```

Figure 1: Problem 1 Output

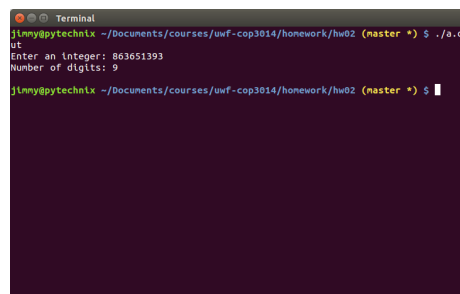
2. Write a C program that displays an upside-down pyramid (*inverted_pyramid.c*). Ask the user to input the number of rows.



```
Terminal
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $ ./a.o
ut
Enter number of rows: 8
*****
*****
*****
*****
*****
*****
*****
*****
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $
```

Figure 2: Problem 2 Output

3. Write a C program to count the digits in a number (*count_digits.c*). Ask the user for the number. Make sure it can handle long integers.



```
Terminal
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $ ./a.o
ut
Enter an Integer: 863651393
Number of digits: 9
jimmy@pytechnix ~/Documents/courses/uwf-cop3014/homework/hw02 (master *) $
```

Figure 3: Problem 3 Output