

Extra Credit #5

Due: June 5, 2014 at 11:55pm (Note different time!)

Points: 30

These two parts have you modify the output to the program “xref2.py” from the last question in the homework. The two parts are independent; you can do neither, either, or both.

- (10 points) Take your program “xref2.py” and alter it so that the field width for the words is the length of the longest word in the dictionary. So, for the file “alice.txt”, the first few lines of the output should be:

```

0           36
11          13
1994        14
20          15
2008        13
2011        15
25          13
3           36
A           59
ADVENTURES 21, 32
ALICE       21, 32
ASCII       19

```

Notice that the numbers are closer to the words than in the homework assignment. As the longest word in that file is “disappointment” (14 letters), the field width for the words is 14, followed by a blank, followed by the list of line numbers.

Submit. Name your file “xrefx1.py” and submit it to the Extra Credit #5 area for this class on SmartSite.

- (20 points) Modify your program in “xref2.py” to eliminate duplicate line numbers in the list of line numbers printed for each word. So, for the file “alice.txt”, the *last* few lines of the output should be:

```

words           101, 170
world           68
worth           51
would           51, 94, 148, 158, 159
wouldn          89
written         112
www             6
yes            99
you            95, 108, 109, 110, 117, 118, 119, 122, 126, 155, 161, 179, 181, 182
your           179

```

Compare this to the output for the last question in Homework #5; in particular, notice that the line numbers 110 and 179 occur once only.

Submit. Name your file “xrefx2.py” and submit it to the Extra Credit #5 area for this class on SmartSite.