

INF 102 Concepts of Programming Languages II

Homework Project 1

Using your favorite programming language (other than Python), implement the term frequency program that is the basis for the exercises in the book – see Prologue in the book. There is no need to follow any specific style; just make it work as best as you can. Your program should:

- Consist of only one source file, not several
- Use the list of stop words provided at https://github.com/crista/exercises-in-programming-style/blob/master/stop_words.txt
Assume that the file with stop words is in the parent directory (“../stop_words.txt”)
- Run from the command line and take the name of a file as input, like this:
`$ [language_interpreter] your_program some_text_file`
- Successfully run over Pride and Prejudice available at <https://github.com/crista/exercises-in-programming-style/blob/master/pride-and-prejudice.txt>
- Successfully pass the unit test available at <https://github.com/crista/exercises-in-programming-style/tree/master/test>
Specifically, the output of your program over the book Pride and Prejudice should be this:
<https://github.com/crista/exercises-in-programming-style/blob/master/test/pride-and-prejudice.txt>

What to submit:

- Signed course policies document scanned (a picture with your phone will do, both sides), and submitted to “INF 102 Policies” DropBox.
- Starting this week, and for the rest of the quarter, we are going to use Cloud9 IDE, an online virtual environment. <https://c9.io/> Please create an account there, and create a workspace for all your projects. The workspace should be organized as follows:
pride-and-prejudice.txt
stop_words.txt
Week1/
 YourFilesForWeek1
Week2/
 YourFilesForWeek2
...
- Share that workspace with the TA. Instructions will be sent by email.

- When you are done with your project, leave the files there. The TA will then visit and grade. Note that time stamps will be checked.

Grading criteria:

1. *Course policies document*: submitted on time, initialed and signed? (10 points)
2. *Correctness*: does your program produce the correct output for Pride and Prejudice? (40 points)
3. *Form*: is it only one file? (10 points)
4. *Operation*:
 - a. Does it run from the command line? (20 points)
 - b. Does it take a file name as argument? (10 points)
 - c. Does it read the file of stop words from the parent directory? (10 points)