1. Based on our practice with TiMBL in class to determine authorship:

   (a) What features would you propose adding to `features.py`? Name at least three.

   (b) Describe how you would add these features to the program. You do not need to add them to `features.py`, but just need to talk about where they go in, what data structures will be used, etc. It may help to write down some pseudo-code (without worrying about whether it works in python).

   (c) **Bonus (up to 10 points):** Rerun the (original) program with different authors & works. Note that you may have to account for formatting differences. Consider what your training and testing data should be, and thoroughly report what you did. Additionally, compare the accuracy to the accuracy we obtained in class and discuss specifics of why it is greater/lesser. (You will want to look at the output and see which cases the classifier is getting wrong.)

   (d) **Bonus (up to 10 points):** Implement your features (from #a and #b) in `features.py`. To get full credit, your program should work (and you should send it to me as a python program), and you should do another round of testing with TiMBL and report your findings, including the new accuracy: do your new features help or not? NB: You are welcome/encouraged to do both bonuses, but you can only receive credit for one of them.

2. Do question #1 from chapter 7 of the draft textbook (p. 267–268).

3. Do question #2 from chapter 7 of the draft textbook (p. 268).

4. Do question #3 from chapter 7 of the draft textbook (p. 268).

5. Do question #4 from chapter 7 of the draft textbook (p. 268–269).

6. Do question #7 from chapter 7 of the draft textbook (p. 272).