Assignment 5

L445/L515
Searching

Due Wednesday, October 26

1. (carry-over from HW4) Write a short program in Python which takes a string variable and prints out one letter per line. In this case, your variable will contain the string "Hello world", but we might want to change that in the future, so be sure to use a while loop based on the string length. You will likely also find string slices to be of use.

Your output should look like this:

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2. Do question #1 in chapter 4 of the draft textbook (p. 147).

3. Below is a list of the authors of 7 hypothetical books. So, for example, knight and davis wrote book 4, but crean did not.

1) knight 5) knight crean
2) davis 6) davis crean
3) crean 7) knight davis crean
4) knight davis

For each of the following Boolean expressions, write down which author lists match the expression. For example, the Boolean expression davis matches 2, 4, 6, and 7. Additionally, for (d) and (e), draw a Venn diagram representing the query.

(a) knight
(b) knight AND NOT crean
(c) knight OR davis OR crean
(d) knight AND (davis OR crean)
(e) (knight AND davis) OR crean

4. Do question #6 in chapter 4 of the draft textbook (p. 150).

5. Do question #9 in chapter 4 of the draft textbook (p. 150–151). The file movies.txt can be found on oncourse. (Thanks to Rajakrishnan Rajkumar for this activity.)