This is an interesting idea — how might this be accomplished. Ideas on how the algorithms might be written?

Name? Kenneth?

Computer Science 135 — 2017 Final Project Agreement

Proposal due Wednesday, April 12, in class; changes due Wednesday, April 19.
Project due May 12 at 5pm.

To prepare for your final project, I would like you to spend some time thinking about and planning what you would like to do. The last three weeks of the course will be dedicated to the construction of a project that demonstrates, in a substantial way, what you have learned during this semester. Projects might include:

- ⋆ The progressive solution of a collection of problems of one type. For example, Project Euler (see `projecteuler.net`) considers problems of number theory. Here, perhaps you solve a predetermined number of problems and develop a module of functions and data structures. Or, perhaps, you develop a collection of programs and databases that solve a series of word puzzles (see `www.npr.org/series/4473090/sunday-puzzle`). Or you develop a system for generating or solving a particular type of logic puzzle (see `www.nikoli.co.jp/en/puzzles/`).
- ⋆ The thoughtful development of a utility that helps one explore, in new ways, questions about a collection or database. For example, you might construct a utility that evaluates Supreme Court decisions based on the academic impact rating, H-index (see `wikipedia.org`'s `H-index`). Or, perhaps you build a browser for the New York Public Library's public domain digital collection (see `on.nypl.org/10MpBc2`). The PINK project encourages this type of exploration of the WCMA.
- ⋆ The application of a new statistic or metric to a new domain. For example, you might apply and tune "Elo" ratings to a new sport (see `wikipedia.org`'s `Elo_rating_system`).

Below, please discuss your plans for a final project. **Submitting this form is an indication that, if the project is accepted, you will follow through with the proposed work.** In other words, think about what you write here, carefully.

1. How do you expect you'll want to use programming beyond this class?
Alternatively: What lab have you found most interesting?

Lab 3, because exploring databases and plucking out certain information based on a certain requirement is particularly interesting to me. I would like to explore that for my final project.

2. What Python skills would you like spend more time developing?

Building classes, since it's still difficult to build one from scratch. Also more time on if statements, for / while loops, and iterators.

3. *Briefly*, what do you want to do for your final project?

An application in which it takes a song in a song lyric database and results in similar songs by different artists in terms of meaning and sound and mood.

4. For the purposes of focusing my evaluation: What aspects of this project will address those skills discussed in Question 2?

Perhaps classes are needed to help manipulate certain information from song lyrics, but I'm not sure how this skill would be needed. If statements, for/while loops are certainly needed, and iterators might be useful for evaluating certain words in lyrics and adding/taking out elements.

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