CS 261P Extra Credit Project: Prefix and Suffix Trees

In this project you are to implement the Prefix and Suffix Trees.

Project Files:
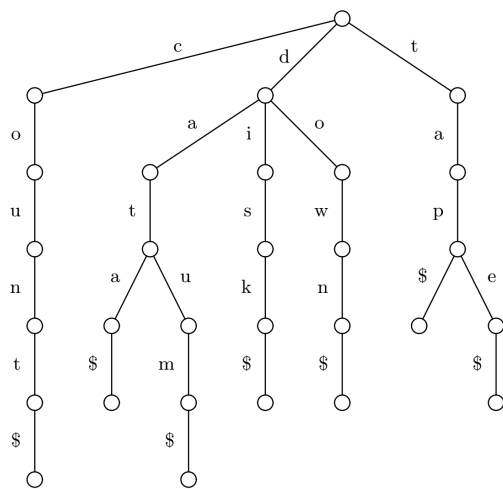
You will need to download files for this project. Download the extra-credit-files.zip file using this **canvas** link.

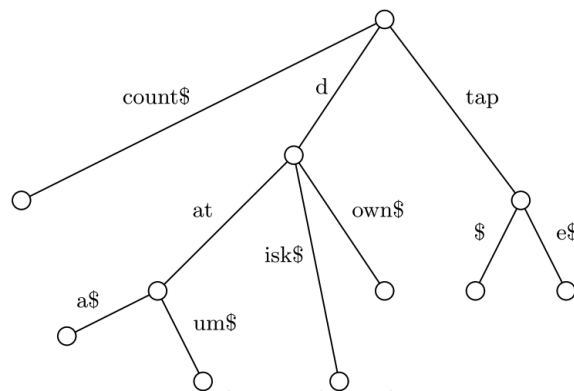The zip file contains 3 files: **trie.py, project_ec_tests.py, and requirements.py**.

Project Specification:

The specification for the project is given in the file **requirements.py**. Read it carefully and completely before starting the project.
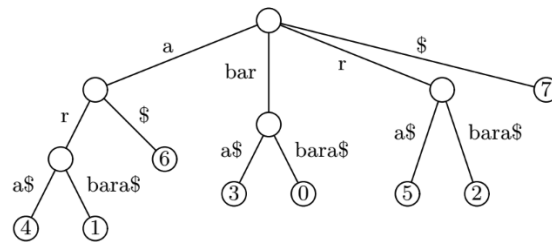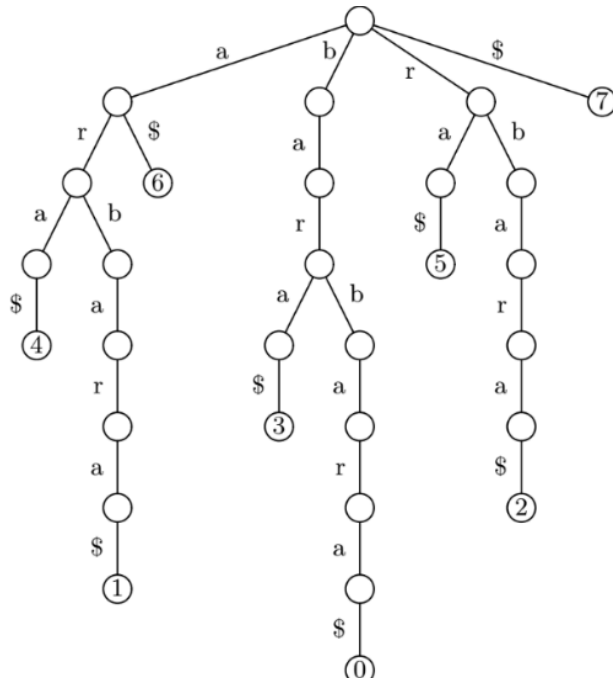
We also ask you to implement code forthe following trees: (1) uncompressed prefix, (2) compressed prefix, (3) uncompressed suffix, (4) compressed suffix.

Uncompressed Prefix   Compressed Prefix

Uncompressed Suffix   Compressed Suffix

The project deliverable is the file **trie.py**, modified by replacing the code stubs of the required methods with working code.

Project Testing:

The file **project_ec_tests.py** contains a few tests that you can use to test your code. As stated there, these tests are just to get you started, and passing these tests does not mean that your code is correct. We strongly recommend that you create more tests, with varying data structure sizes and operation sequences, to test your code more completely.

Project submission

The project is to be submitted to GradeScope. Instructions for what to submit are in the file **requirements.py**.

Project due date/time

The project is due on **Tuesday, March 22, at 11:59 PM PST.**
Late projects receive no extra credit.

Miscellaneous notes

This project is to be done **individually** (**no groups**).

If you have questions about the project of general interest, the best way to ask your question is on the Ed Discussion message board.