HOMEWORK 7 - FALL 2020

HOMEWORK 7 - GRADING KEY

1. (17 points) Documentation and Coding Style

- Name, ID number and recitation at the top of ALL java files [2 points]
- Precise and correct specifications. [5 points]
- Indentation. [3 points]
- Variable Names. [2 points]
- Javadoc Style for Documentation. [5 points]

Note: You only need to submit your java files. We will use the `javadoc *.java` command to create the javadoc files.

2. (13 Points) Source Code

- Implementation done as specified (additional methods are OK) [8 points]
- Throw an exception back to the calling method(s) if a precondition is violated. [5 points]

3. (70 Points) Program Correctness

- Program compiles without any errors. [12 points]
- Graph successfully constructed from pages.txt and links.txt. [10 points]
- The following menu options are implemented correctly: [43 points total]
    - (AP) - Add a new page to the graph. [5 points]
    - (RP) - Remove a page from the graph. [8 points]
    - (AL) - Add a link between pages in the graph. [6 points]
    - (RL) - Remove a link between pages in the graph. [6 points]
    - (S) - Searches the graph for the matching keyword, and display ranked results in order. [8 points]
    - (P) - Print the graph. [9 points total]
        - (I) - Sort based on index (ASC). [3 points]
        - (U) - Sort based on URL (ASC). [3 points]
        - (R) - Sort based on rank (DSC). [3 points]
    - (Q) - Quit [1 point]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [5 points]

4. (7 points) Extra Credit

- GUI: In addition to performing all the functions described in the specs, the GUI must have clickable headers on all lists which sort by that column when clicked. Clicking again on that column should reverse the sorting order. [7 points]