HOMEWORK 7 - Spring 2023

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 *(see NOTE). [5 points]

NOTE 1: You only need to submit your *.java files. We will use the javadoc *.java command to create the javadoc files.

NOTE 2: YOUR ASSIGNMENT WILL NOT BE GRADED if you submit only *.class files.

NOTE 3: DO NOT SUBMIT THE JAR FILE WITH YOUR JAVA FILES. OTHERWISE 10 POINTS WILL BE DEDUCTED.

2. (13 Points) Source Code

- Implementation done as specified (additional methods are OK) [5 points]
- Coding style: flexible, extensible, good use of methods and avoid duplicate code. [4 points]
- Throw an exception back to the calling method(s) if a precondition is violated. [4 points]

3. (70 Points) Program Correctness

- Program compiles without any errors. [15 points]
- The following menu options are implemented correctly.:
  - (A) - Add a page to the database [15 points]
  - (SR) - Sort the database by referenceID [4 points]
  - (SD) - Sort by diameter [4 points]
  - (SA) - Sort by approach date [4 points]
  - (SM) - Sort by miss distance [4 points]
  - (P) - Print the database as a table [10 points]
  - (Q) - Quit [4 point]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [10 points]

4. (5 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. [5 points]