HOMEWORK 3 - FALL 2020

HOMEWORK 3 - 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]

NNOTE 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.

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]
- Menu options work correctly:
  - push(), pop(), peek() and all work correctly. [6 points (2 pts each)]
  - Opens and reads file correctly. [3 points]
  - Successfully locates blocks in the input code ('def', 'for', 'while', 'if', 'elif', 'else'). [6 points (1 pt each)]
  - Correctly determines the complexity of 'for' blocks. [11 points]
  - Correctly determines the complexity of 'while' blocks. [16 points]
  - Prints a neatly formatted stack trace of program execution. [6 points]
  - Outputs the correct complexity for input files. [7 points]
  - Quit. [1 points]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [2 points]