

# CSE214

## HOMEWORK 3 - SPRING 2025

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### 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 documentation \*(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.**

#### 2. (20 points) Source code:

- Implementation done as specified (additional methods are OK). [8 points]
- Coding style: flexible, extensible, good use of methods and avoid duplicate code. [4 points]
- Throw an exception back to the calling method if a precondition is violated. [3 points]
- Implement Stack class or use the Java Stack class correctly, not calling any Vector methods that were inherited, but not listed in the Stack API (using clone is OK). [5 points]

#### 3. (63 points) Program correctness:

- Programs compiles without any errors. [15 points]
- Menu operations work correctly:
  - A - Add New Equation [4 points]
  - F - Change Equation in History [6 points]
  - B - Print Previous Equation [2 points]
  - P - Print full history [3 points]
  - U - Undo last equation [3 points]
  - R - Redo equation [3 points]
  - C - Reset calculator [1 point]
  - Q - Quit [1 point]
- Correctness:
  - Pre-fix calculations are correct [5 points]
  - Post-fix calculations are correct [5 points]
  - In-fix calculations are correct [5 points]
  - Binary representations are correct [5 points]
  - Hexadecimal representations are correct [5 points]