



HOMEWORK 5 – FALL 2022

HOMEWORK 5 – 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: YOUR ASSIGNMENT WILL NOT BE GRADED if you use ArrayList, Vector, LinkedList or any predefined Java API Data Structures.

2. (13 Points) Source Code

- Implementation done as specified (additional methods are OK) [6 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. [3 points]

3. (70 Points) Program Correctness

- Program compiles without any errors. [12 points]
- Required functions work correctly:
 - pwd. [10 points]
 - ls. [5 points]
 - ls -R. [12 points]
 - cd {dir}. [5 points]
 - cd /. [2 points]
 - mkdir {name}. [9 points]
 - touch {name}. [9 points]

- exit. [1 points]
- Erroneous input handled "gracefully." (Appropriate Error messages displayed to the user.) [5 points]

4. (10 points) Extra Credit

- File system can support up to 10 DirectoryNodes. [3 points]
- Extra credit functions work correctly:
 - find {name}. [1 points]
 - cd ... [2 points]
 - cd {path}. [2 points]
 - mv {src} {dst}. [2 points]

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