# CS310 Data Structures
## Java Programming Assignment 4 Rubric

| Java Program: | | | | |
|---|---|---|---|---|
| **Rating**<br>**Rating Category** | **Exemplary** | **Partially Proficient** | **Basic (needs work)** | **Not Demonstrated** |
| **Stack Implementation** | The program correctly implemented this class to use an array-based stack for tables. | There are some minor errors. | There were major errors. | This class was implemented incorrectly, or not implemented at all. |
| Pts | 14 | 13 - 10 | 9 - 2 | 1 - 0 |
| **Queue Implementation** | The program correctly implemented this class to use a singly linked list-based queue for | There are some minor errors. | There were major errors. | This class was implemented incorrectly, or not implemented at all. |
| Pts | 14 | 13 - 10 | 9 - 2 | 1 - 0 |
| **Seating Implementation** | The program implemented this class to correctly handle the seating process and provides an audit trail. | There are some minor errors. | There were major errors. | This class was implemented incorrectly, or not implemented at all. |
| Pts | 14 | 13 - 10 | 9 - 2 | 1 - 0 |
| **Final Report** | Report is output correctly, formatted as specified. | There are some minor errors. | There were major errors. | Report was completely incorrect, or no report was produced. |
| Pts | 14 | 13 - 10 | 9 - 2 | 1 - 0 |
| **Program Functionality** | Code implements program as specified.  Correctly handles the seating process and provides an audit trail. | There are some minor errors. | There were major errors. | Implemented little or none of the new program's functionality. |
| Pts | 14 | 13 - 10 | 9 - 2 | 1 - 0 |
| **Documentation** | The program is well documented and clearly describes the purpose of the code, with comment blocks above each class and method. | Most of the documentation describes the purpose of the program and the comments are somewhat helpful. | Parts of the documentation / comments are helpful. | No documentation / comments are visible or the documentation is not helpful in describing the program. |
| Pts | 10 | 9 - 7 | 6 - 2 | 1 - 0 |
| **Input data files/Testing** | Input data files tested all possible paths within the program code, and code passed all tests. | Input data files missed one or two necessary tests, and/or code did not pass one or two tests. | Input data files missed many necessary tests, and/or code did not pass many tests. | Very little testing was done by supplied input data files. |
| Pts | 10 | 9 - 7 | 6 - 2 | 1 - 0 |
| **Java Constructs / Readability / Miscellaneous** | Demonstrates understanding of program structure. Code is organized and easy to follow, with no issues, and there is no unnecessary code. | There are minor construct, readability or other miscellaneous issues. | There are major construct, readability or other miscellaneous issues. | The code is extremely hard to read and follow. |
| Pts | 5 | 4 - 3 | 2 - 1 | 0 |
| **Java Program SubTotal** (any late points deducted will be based upon this subtotal) | | | | |

| Deductions | | | | |
|---|---|---|---|---|
| **Delivery** | Submitted on time | Submitted 1-2 days late (2% deducted per day late) | Submitted 3-5 days late (2% deducted per day late) | Not submitted within 5 days of due date |
| Deductions | 0 | –2% to –4% | –6% to –10% | –100% (no credit) |
| **Unacceptable** | Compiles without errors. | | | Does not compile. |
| Deductions | 0 | | | –100% (no credit) |
| **Points Total** | 100 | | | |