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CSC260

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Assignment 5

Test Case Design

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| **Functionality Tested** | **Inputs** | **Expected Output** | **Actual Output** |
| Add matrix and a complex | | 3 4 7 -8 |  | 6 9 -3 2 | , 3 - 7i  | 1 4 6 11 | | |6-7i 7-7i 10-7i -5-7i|  |9-7i 12-7i 0-7i 5-7i|  |4-7i 7-7i 9-7i 14-7i| | Outputs correctly |
| Input a matrix from standard input | cin | matrixA | Outputs correctly |
| Input a matrix from a file | fin | matrixA | Outputs correctly |
| Set a matrix equal to a matrix | | 6 11 15 -7 | | 3 2 |  | 4 5 10 -3 | , | 7 9 |  |-11 7| | | 3 2 |  | 7 9 |  |-11 7| | Outputs correctly |
| Set a matrix equal to a complex | | 3 6 11 | | -6 8 24 | , 8+3i  | -17 4 2 | | | 8 + 3i | | Outputs correctly |
| Add 2 matrices | | 7 -2 -3 | , | 8 -21 28| | |15 -23 25| | Outputs correctly |
| Multiply 2 matrices | | 2 2 | | 8 9 11|  | 6 -27 | , | -3 4 27|  | 37 0 | | | 10 26 76 |  | 129 -54 -663 |  | 296 333 407 | | Occasionally produces flawed output |
| Multiply a matrix and a complex | | 3 |  | 4 | , -3-4i  | -11 |  | 17 | | | 0-4i |  | 1-4i |  | -14-4i |  | 14-4i | | Outputs correctly |
| Output a matrix | | 3 -2 5 |  | 7 -9 10 | | The matrix is: 3 -2 5  7 -9 10 | Outputs correctly |