## Data Structures and Algorithms LAB (CMP-211) - Fall 2015 BS-SE-F14 - Afternoon

|          | ĺ          | Weightage                            |                |          |                |          | 1        |          |                |                | 1              | 1        |          |       |            |              |            | 1  | 1 1    |        |       |              | 1          |    |  |         | ı       | 1     |
|----------|------------|--------------------------------------|----------------|----------|----------------|----------|----------|----------|----------------|----------------|----------------|----------|----------|-------|------------|--------------|------------|--|--------|--------|-------|--------------|------------|----|--|---------|---------|-------|
|          |            | Total Marks                          | 30             | 20       | 20             | 20       | 50       | 30       | 25             | 30             | 35             | 50       | 40       |       | 20         | 20           | 10         | 10   | 10     | 10     |       | 40           | 20         | 20 | 1  |         |         |       |
|          |            | Total Mario                          | 00             | 20       | 20             | 20       | - 00     | Lab T    |                | 00             | - 00           | - 00     | ,0       |       |            |              |            |  |        |        | Lab   |              |            |    |  |         |         |       |
| Sr.      |            |                                      | 15/10          | 22/10    | 29/10          | 05/11    | 12/11    | 19/11    |                | 10/12          | 17/12          | 07/01    | 14/01    | 21/01 | Lab E      | xam 1        | Lab E      | Exam 2   | Lab E  | xam 3  | Tasks |              | Lab Exam   |    | Penalty  | TOTAL   | Rounded | Grade |
| No.      | Roll No.   | Name                                 | Lab 1          | Lab 2    | Lab 3          | Lab 4    | Lab 5    | Lab 6    |                | Lab 8          |                |          | Lab 12   |       | Part 1     | Part 2       | Part 1     | Part 2   | Part 1 | Part 2 | TOTAL | 1            | 2          | 3  |  |         | TOTAL   |       |
| 1        |            | MUHAMMAD AHMED                       | 30             | 17       | 20             | 16       | 50       | 30       | 25             | 26             | 30             | 48       | 35       |       | 14.5       | 12           | 10         | 9.5  |        |        |       | 26.5         | 19.5       |    |  |         |         |       |
| 2        | BSEF14A003 | ALI BASHARAT                         | 25             | 19       | 20             | 20       | 47       | 30       | 22             | 22             | 25             | 27       | 0        |       | 13         | 10           | 8          | 8  |        |        |       | 23           | 16         |    |  |         |         |       |
| 3        | BSEF14A004 | MUHAMMAD UMAR FAROOQ                 | 19.5           | 0        | 17             | 20       | 50       | 30       | 15             | 20             | 18             | 22       | 30       |       | 12.5       | 6            | 7          | 8.5  |        |        |       | 18.5         | 15.5       |    |  |         |         |       |
| 4        | BSEF14A006 | AMMARA KHALID                        | 28             | 18       | 18             | 13       | 0        | 26       | 11             | 14             | 15             | 22       | 39       |       | 10.5       | 6            | 6          | 10   |        |        |       | 16.5         | 16         |    |  |         |         |       |
| 5        |            | HAFIZ MUHAMMAD BILAL                 | 30             | 19       | 19             | 13       | 50       | 30       | 14             | 15             | 18             | 30       | 28       |       | 5          | 9.5          | 2          | 10   |        |        |       | 14.5         | 12         |    |  |         |         |       |
| 6        |            | ALI ABBAS MALIK                      | 30             | 19       | 17             | 20       | 50       | 30       | 25             | 30             | 35             | 50       | 40       |       | 7          | 11.5         | 10         | 9  |        |        |       | 18.5         | 19         |    |  |         |         |       |
| 7        | BSEF14A011 | TAYYIBAH ALAU D DIN                  | 30             | 20       | 19             | 19       | 50       | 25       | 20             | 20             | 15             | 25       | 39       |       | 8          | 7            | 5          | 7.5  |        |        |       | 15           | 12.5       |    |  |         |         |       |
| 8        |            | MOHAMMAD HAROON SADIQ                | 12             | 15       | 0              | 10       | 46       | 30       | 6              | 20             | 15             | 0        | 0        |       | 8          | 13           | 3          | 5  |        |        |       | 21           | 8          |    |  |         |         |       |
| 9        |            | TAYYABA ALI                          | 14<br>23.5     | 18       | 3.5            | 19       | 50<br>50 | 30       | 21             | 16             | 25             | 20       | 29       |       | 10.5       | 14.5         | 3          | 9  |        |        |       | 25           | 12         |    |  |         |         |       |
| 10<br>11 |            | BILAL AHMAD<br>SHAHERYAR IMTIAZ      | 30             | 15<br>0  | 17<br>19       | 12<br>20 | 50       | 30<br>30 | <b>0</b><br>19 | 23<br>30       | 16<br>0        | 32<br>0  | 28<br>40 |       | 10<br>18.5 | 14<br>17.5   | - 8<br>- 7 | 8.5<br>10  |        |        |       | 24<br>36     | 16.5<br>17 |    |  |         |         |       |
| 12       | BSEF14A018 | ABDUL KARIM                          | 16             | 18       | 20             | 20       | 50       | 30       | 25             | 0              | 20             | 45       | 40       |       | 18.5       | 9            | 4          | 9  |        |        |       | 18           | 13         |    | 1  | 1       |         | -     |
| 13       |            | AQSA ARUJ                            | 10             | 14       | 9              | 15       | 46       | 26       | 18             | 16             | 15             | 20       | 28       |       | 7.5        | 8            | 6          | 7.5  |        |        |       | 15.5         | 13.5       |    | 1  |         |         |       |
| 14       |            | SHAMEEN ARSHAD                       | 25             | 19       | 20             | 20       | 0        | 22       | 15             | 20             | 0              | 19       | 36       |       | 12.5       | 19.5         | 3          | 10   |        |        |       | 32           | 13.3       |    | <del>                                     </del> |         |         |       |
| 15       |            | MUHAMMAD MUNEEB                      | 22             | 19       | 20             | 15       | 50       | 30       | 0              | 23             | 15             | 30       | 40       |       | 11.5       | 16.5         | 10         | 10   |        |        |       | 28           | 20         |    | 1  |         |         |       |
| 16       | BSEF14A028 | IFRAH SAIF TOOR                      | 18             | 20       | 14.5           | 16       | 48       | 26       | 16             | 12             | 15             | 0        | 30       |       | 14         | 12           | 4          | 8.5  |        |        |       | 26           | 12.5       |    |  |         |         |       |
| 17       |            | AIMEN MANZOOR                        | 15             | 18       | 4              | 13       | 49       | 27       | 10             | 24             | 15             | 20       | 35       |       | 12         | 17.5         | 5          | 9  |        |        |       | 29.5         | 14         |    |  |         |         |       |
| 18       | BSEF14A031 | HAFIZ MUHAMMAD USAMA                 | 30             | 19       | 19             | 20       | 50       | 30       | 18             | 30             | 25             | 37       | 35       |       | 13         | 17           | 7          | 9.5  |        |        |       | 30           | 16.5       |    |  |         |         |       |
| 19       | BSEF14A032 | MUHAMMAD ARSLAN                      | 30             | 20       | 20             | 20       | 50       | 30       | 25             | 30             | 35             | 43       | 40       |       | 15.5       | 19           | 10         | 10   |        |        |       | 34.5         | 20         |    |  |         |         |       |
| 20       | BSEF14A033 | ALI SAFIAN                           | 30             | 0        | 19             | 15       | 50       | 30       | 0              | 0              | 18             | 46       | 37       |       | 14.5       | 11           | 8          | 8.5  |        |        |       | 25.5         | 16.5       |    |  |         |         |       |
| 21       | BSEF14A034 | BAKHTAWAR TANVEER                    | 0              | 14       | 14.5           | 18       | 47       | 30       | 18             | 13             | 15             | 13       | 29       |       | 11.5       | 10.5         | 8          | 7.5  |        |        |       | 22           | 15.5       |    |  |         |         |       |
| 22       |            | CHAUDRY ARSLAN MANSHA                | 30             | 20       | 18             | 19       | 50       | 0        | 21             | 28             | 24             | 25       | 40       |       | 6.5        | 14.5         | 10         | 10   |        |        |       | 21           | 20         |    |  |         |         |       |
| 23       |            | SAAD MEHMOOD                         | 30             | 20       | 20             | 20       | 50       | 30       | 25             | 30             | 35             | 50       | 40       |       | 11         | 7            | 10         | 10   |        |        |       | 18           | 20         |    |  |         |         |       |
| 24       |            | AMNA QADEER                          | 15             | 20       | 14.5           | 14       | 47       | 21       | 13             | 0              | 15             | 20       | 30       |       | 14         | 8.5          | 3          | 6.5  |        |        |       | 22.5         | 9.5        |    |  |         |         |       |
| 25       |            | FASIH HAIDER<br>MUHAMMAD REHAN AKMAL | 14             | 19       | 19<br>15       | 14<br>17 | 50<br>50 | 30<br>30 | 22             | 30<br>24       | 22             | 45       | 38       |       | 13<br>12   | 17.5<br>13.5 | 7          | 10   |        |        |       | 30.5<br>25.5 | 17<br>15   |    |  |         |         |       |
| 26<br>27 |            | AMINANAEEM                           | <b>0</b><br>19 | 19<br>15 | 13.5           | 17       | 50       | 30       | 15             | 15             | 18<br>15       | 15<br>20 | 40       |       | 14         | 16.5         | 6<br>7     | 9<br>5   |        |        |       | 30.5         | 12         |    |  |         |         |       |
| 28       |            | MUHAMMAD SHAHID                      | 30             | 18       | 17             | 20       | 50       | 30       | 13             | 24             | 19             | 47       | 36       | -     | 11         | 12           | 2          | 9  |        |        |       | 23           | 11         |    |  |         |         |       |
| 29       |            | MUHAMMAD KAMRAN                      | 30             | 19       | 19             | 20       | 50       | 30       | 25             | 30             | 24             | 45       | 40       |       | 16         | 6            | 3          | 10   |        |        |       | 22           | 13         |    |  |         |         |       |
| 30       |            | SYED RIZWAN ALI                      | 30             | 19       | 20             | 16       | 50       | 30       | 25             | 30             | 30             | 50       | 35       |       | 14.5       | 20           | 10         | 10   |        |        |       | 34.5         | 20         |    |  |         |         |       |
| 31       |            | ARSHAM MAQBOOL                       | 8              | 19       | 0              | 15       | 48       | 23       | 15             | 14             | 15             | 18       | 30       |       | 10         | 15           | 3          | 8  |        |        |       | 25           | 11         |    |  |         |         |       |
| 32       | BSEF14A051 | ADIL AZIZ                            | 25             | 17       | 20             | 20       | 50       | 30       | 25             | 12             | 20             | 45       | 0        |       | 8          | 19           | 3          | 9.5  |        |        |       | 27           | 12.5       |    |  |         |         |       |
| 33       | BSEF14A053 | MAHA ASIM                            | 11             | 16       | 4.5            | 19       | 46.5     | 30       | 20             | 23             | 25             | 19       | 39       |       | 16         | 18           | 9          | 7.5  |        |        |       | 34           | 16.5       |    |  |         |         |       |
| 34       | BSEF14A054 | SAIRA REHAN                          | 13             | 15       | 13             | 11       | 45       | 26       | 13             | 18             | 13             | 20       | 30       |       | 9.5        | 9            | 3          | 4  |        |        |       | 18.5         | 7          |    |  |         |         |       |
| 35       |            | USMAN NAZIR                          | 30             | 19       | 19             | 14       | 50       | 30       | 25             | 27             | 32             | 50       | 40       |       | 16         | 19.5         | 10         | 10   |        |        |       | 35.5         | 20         |    |  |         |         |       |
| 36       |            | BALKHASH SALEEM                      | 0              | 0        | 12             | 0        | 48       | 24       | 5              | 12             | 15             | 30       | 0        |       | 10.5       | 7            | 1          | 5  |        |        |       | 17.5         | 6          |    |  |         |         |       |
| 37       |            | TANIA FAROOQ                         | 0              | 0        | 11             | 9        | 44       | 25       | 5              | 12             | 15             | 32       | 0        |       | 5.5        | 3            | _1_        | 4  |        |        |       | 8.5          | 5          |    |  |         |         |       |
| 38       |            | SYEDA AIMAN FARRUKH                  | 0              | 15       | 12             | 9        | 40       | 25       | 5              | 25             | 15             | 31       | 0        |       | 11         | 5            | 3          | 8  |        |        |       | 16           | 11         |    |  | <b></b> |         |       |
| 39       |            | UZAIR HASSAN                         | 28             | 18       | 17             | 20       | 48       | 28       | 23             | 25             | 30             | 33       | 37       |       | 9.5        | 15           | 10         | 8.5  |        |        |       | 24.5         | 18.5       |    | <del>                                     </del> |         |         |       |
| 40       |            | SAMEER AHMED                         | 0              | 18       | 0              | 0        | <u>0</u> | 0        | 19             | 14             | 0              | 0        | 0        |       | 1.5        | 9            | 0          | 7  |        |        |       | 10.5         | 0          |    |  |         |         |       |
| 41       |            | MUHAMMAD ANS<br>MUHAMMAD TAHIR       | 30<br>10       | 19<br>17 | <b>0</b><br>16 | 0<br>12  | 50<br>50 | 27<br>22 | 14<br>17       | <b>0</b><br>25 | <b>0</b><br>10 | 34<br>36 | 33       |       | 4<br>12.5  | 9<br>6.5     | 3          | 4  |        |        |       | 13<br>19     | 10<br>8    |    |  |         |         |       |
| 42       | BSEF13M019 | INICHAMINAD TATIIN                   | 10             | 0        | 0              | 0        | 0        | 0        | - 17           | 20             | 10             | 30       | U        |       | 12.0       | 0.0          | -          | <del>  "</del>                                   |        |        |       | 19           | O          |    |  |         |         |       |
| 44       | BCSF13009  |                                      | 15             | 0        | 0              | 0        | 0        | 0        |                |                | <b>-</b>       | <b>-</b> |          |       |            |              |            | <del>                                     </del> |        |        |       |              |            |    | <del>                                     </del> |         |         |       |
| 45       | BSEF13M058 |                                      | 20             | 0        | 0              | 0        | 0        | 0        |                |                |                |          |          |       |            |              |            | 1  |        |        |       |              |            |    | 1  |         |         |       |
| 46       |            |                                      |                | Ť        | Ť              | _        | ľ        | Ť        |                |                |                |          |          |       |            |              |            |  |        |        |       |              |            |    |  | l       |         |       |
| 47       |            |                                      | 1              | İ        |                |          |          |          |                |                |                |          |          |       |            |              |            | 1  |        |        |       |              |            |    | 1  |         |         |       |
| 48       |            |                                      | 1              |          |                |          |          |          |                |                |                |          |          |       |            |              |            |  |        |        |       |              |            |    |  |         |         |       |
| 49       |            |                                      |                |          |                |          |          |          |                |                |                |          |          |       |            |              |            |  |        |        |       |              |            |    |  |         |         |       |
| 50       |            |                                      |                |          |                |          |          |          |                |                |                |          |          |       |            |              |            |  |        |        |       |              |            |    |  |         |         |       |
|          |            | Average                              | 19.2           | 14.7     | 13.6           | 14.2     | 42.2     | 25.0     | 16.4           | 19.6           | 18.5           | 28.9     | 28.5     |       | 11.1       | 12.2         | 5.8        | 8.1  |        |        |       | 23.2         | 13.8       |    |  |         |         |       |
|          |            | Standard Deviation                   | 10.6           | 7.1      | 7.3            | 6.5      | 16.9     | 9.3      | 7.5            | 8.8            | 9.0            | 14.7     | 14.6     |       | 3.6        | 4.7          | 3.1        | 2.2  |        |        |       | 7.0          | 4.7        |    |  |         |         |       |

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