## IF184401 Design & Analysis of Algorithms (H) - Midterm Exam Grade MM Irfan Subakti & Nurul Izzatil Ulum 2nd Semester 2022/2023

|    |            |                     |       |                 |     | AV               | 'L Tree  |                  |                   |          |  | Decla-                   |                          | Email Manner |      |                | File-<br>name |               |              | Original          |                         | Final |
|----|------------|---------------------|-------|-----------------|-----|------------------|----------|------------------|-------------------|----------|--|--------------------------|--------------------------|--------------|------|----------------|---------------|---------------|--------------|-------------------|-------------------------|-------|
| No | Student IE | Name                | isBST | printDescending | max | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation  | ration<br>(Valid/<br>NV) | Appro-<br>priate<br>Name | Subject      | Body | Signa-<br>ture | Title         | Late<br>(min) | Final Remark | Grade<br>(Number) | Final Grade<br>(Number) | Grade |
|    |            |                     | 20%   | 10%             | 10% | 10%              | 10%      | 15%              | 15%               | 10%      |  |                          | 2%                       | 2%           | 2%   | 2%             | 2%            |               |              | 100%              |                         |       |
|    |            | Akbar Putra         |       |                 |     |                  |          |                  |                   |          | There is a slight<br>error in rebalance<br>function on AVL   |                          |                          |              |      |                |               |               |              |                   |                         |       |
| 1  | 502521100  | Asenti Priyanto     | 20    | 10              | 10  | 10               | 10       | 14               | 14                | 10       | Tree. Excellent!   | 1                        | 1                        | 1            | 1    | 1              | 1             | 0             | Excellent!   | 98                | 98                      | Α     |
|    |            | Achmad              |       |                 |     |                  |          |                  |                   |          | There is slight error<br>in the checking of<br>whehter a tree is<br>BST or not and at<br>rebalancing<br>algorithm. Some<br>function did not  |                          |                          |              |      |                |               |               |              |                   |                         |       |
|    |            | Khosyi' Assajjad    |       |                 |     |                  |          |                  |                   | _        | work as intended.  |                          |                          |              |      |                |               | _             |              |                   |                         |       |
| 2  | 502521100  | ' Ramandanta        | 15    | 10              | 10  | 10               | 10       | 10               | 10                | 7        | Great work!  | 1                        | 1                        | 1            | 1    | 1              | 1             | 0             | Great work!  | 82                | 82                      | AB    |
|    | 502524404  | Muhammad<br>Daffa'  | 45    | 10              | 10  | 10               | 10       | 45               | 45                | 10       | There is a slight<br>error in the<br>checking of<br>whether a tree is<br>BST or not.   |                          |                          | 4            |      |                |               |               | Fuelland     | 05                | 05                      |       |
| 3  | 502521101  | a Ashdaqfillah      | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Excellent!<br>There is slight error  | 1                        | 1                        | 1            | 1    | 1              | 1             | 0             | Excellent!   | 95                | 95                      | Α     |
| 4  | 502521101  | Andrian<br>Tambunan | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm. Some<br>function did not<br>work as intended.<br>Great work!   | 1                        | 1                        | 1            | 1    | 1              | 1             | 8             | Great work!  | 80                | 78.8                    | АВ    |
| 5  | 502521102  | Wan Sabrina         | 15    | 10              | 10  | 10               | 7        | 10               | 10                |          | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm. Some<br>function did not<br>work as intended.<br>Great work!                                    | 1                        | 1                        | 1            | 1    | 1              | 1             |               | Great work!  | 80                | 80                      | AB    |
| 6  | 502521102  | Widian Sasi         | 15    | 10              | 10  | 10               | 7        | 10               | 10                |          | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>Great work! | 1                        | 1                        | 1            | 1    | 0              | 1             | 0             | Great work!  | 78                | 78                      | AB    |

|   |        |          |   |       |                 |     | AV               | /L Tree  |                  |                   |          |   | Decla-                   |                          |         |      | File-<br>name  |       |               | Original   |                   |                         |    |
|---|--------|----------|---|-------|-----------------|-----|------------------|----------|------------------|-------------------|----------|---|--------------------------|--------------------------|---------|------|----------------|-------|---------------|--|-------------------|-------------------------|----|
| N | o Stud | ıdent ID | Name                                    | isBST | printDescending | max | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation   | ration<br>(Valid/<br>NV) | Appro-<br>priate<br>Name | Subject | Body | Signa-<br>ture | Title | Late<br>(min) | Final Remark   | Grade<br>(Number) | Final Grade<br>(Number) |    |
|   |        |          |   | 20%   | 10%             | 10% | 10%              | 10%      | 15%              | 15%               | 10%      | ł   | ,                        | 2%                       | 2%      | 2%   | 2%             | 2%    |               |  | 100%              |                         |    |
|   |        |          | Arkana Bilal                            |       |                 |     |                  |          |                  |                   |          | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm. Some<br>function did not<br>work as intended.                |                          |                          |         |      |                |       |               | Please add<br>appropriate name in<br>your email next time. |                   |                         |    |
| 7 | 5025   |          | Imani                                   | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | Great work!   | 1                        | 0                        | 1       | 1    | 1              | 1     | 0             | Great work!  | 78                | 78                      | AB |
| 8 | 5025   |          | Abdulləh<br>Yasykur<br>Bifadhlil Midror | 20    | 10              | 10  | 10               | 10       | 14               | 14                | 9        | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>Excellent!                  | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Excellent1   | 97                | 97                      | А  |
|   |        |          | Duevano Fairuz                          | 20    | 10              | 10  | 10               | 7        | 10               |                   |          | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>Great work!                 | 1                        |                          | 1       | 1    |                |       |               |  | 85                |                         |    |
| 1 |        |          | Pandya<br>M. Armand<br>Giovani          | 15    | 10              | 10  | 10               | 10       | 10               | 10                | 8        | There is a slight<br>error in the<br>checking of<br>whether a tree is<br>BST or not.<br>Excellent!  | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Great work!  | 95                | 85<br>95                | AB |
| 1 |        |          | Salsabila Fatma<br>Aripa                | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm. Some<br>function did not<br>work as intended.<br>Great work! | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Great work!  | 80                | 80                      | AB |
|   |        |          | Gabriella<br>Natasya Br                 |       |                 |     |                  |          |                  |                   |          | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.                                |                          |                          |         |      |                |       |               | Please don't be late,                                      |                   |                         |    |
| 1 | 2 5025 |          | Ginting<br>Farhan Dwi                   | 15    | 10              | 10  | 10               | 10       | 14               | 14                | 9        | Excellent!  | 1                        | 1                        | 1       | 1    | 0              | 1     | 4             | next time. Excellent!<br>Perfect score!                    | 90                | 89.4                    | A  |
| 1 | 5025   |          | Putra                                   | 20    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Perfect score!  | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Excellent!   | 100               | 100                     | A  |

|    |            |                                 |       |                 |     | A                | /L Tree  |                  |                   |          |   | Decla-<br>Tation Appro- |                          | File-<br>name |      |                | Original |               |              |                   |                         |    |
|----|------------|---------------------------------|-------|-----------------|-----|------------------|----------|------------------|-------------------|----------|---|-------------------------|--------------------------|---------------|------|----------------|----------|---------------|--------------|-------------------|-------------------------|----|
| No | Student ID | Name                            | isBST | printDescending | max | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation   | ration                  | Appro-<br>priate<br>Name | Subject       | Body | Signa-<br>ture | Title    | Late<br>(min) | Final Remark | Grade<br>(Number) | Final Grade<br>(Number) |    |
|    |            |                                 | 20%   | 10%             | 10% | 10%              | 10%      | 15%              | 15%               | 10%      |   |                         | 2%                       | 2%            | 2%   | 2%             | 2%       |               |              | 100%              |                         |    |
|    |            | Adhira Riyanti                  |       |                 |     |                  |          |                  |                   |          | There is a slight<br>error in checking<br>whether a tree is<br>BST or not and<br>rebalance function<br>on AVL Tree.   |                         |                          |               |      |                |          |               |              |                   |                         |    |
| 14 | 5025211102 | Amanda                          | 15    | 10              | 10  | 10               | 10       | 14               | 14                | 10       | Excellent!  | 1                       | 1                        | 1             | 1    | 0              | 1        | 0             | Excellent!   | 91                | 91                      | Α  |
| 15 | 5025011100 | Dewangga Dika                   | 15    | 10              | 10  | 10               | 7        | 10               |                   | 2        | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm as it<br>affects other<br>function. Some<br>function. Some<br>function did not<br>work as intended. | 1                       | 1                        | 1             | 1    | 1              | 1        |               | Grant work i | 20                | 80                      |    |
| 15 | 5025211109 | Darmawan                        | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | Great work!   | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Great work!  | 80                | 80                      | AB |
| 16 | 5025211112 | Java Kanaya<br>Prada            | 15    | 10              | 10  | 10               | 10       | 14               | 14                | 9        | There is a slight<br>error in checking<br>whether a tree is<br>BST or not, and the<br>delete function on<br>AVL Tree. Excellent!  | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Excellent!   | 92                | 92                      | А  |
| 10 | 5025211112 | Fidud                           | 15    | 10              | 10  | 10               | 10       | 14               | 14                | 3        | There is a slight   | 1                       | 1                        | 1             | 1    | 1              | -        | 0             | Excellenti   | 52                | 52                      |    |
| 17 | 5025211114 | Adam Haidar<br>Azizi            | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | error in the<br>checking of<br>whether a tree is<br>BST or not and<br>please gave output<br>picture next time.<br>Excellent!  | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Excellent!   | 95                | 95                      | А  |
| 18 |            | Dafarel Fatih<br>Wirayudha      | 20    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>Great work!   | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Great work!  | 85                | 85                      |    |
| 18 | 5025211120 | wirayuuna                       | 20    | 10              | 10  | 10               | /        | 10               | 10                | 0        | Great WORK!   | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Great WORK!  | 65                | 65                      | AB |
| 19 | 5025211122 | Muhammad<br>Zien Zidan          | 20    | 10              | 10  | 10               | 10       | 15               | 15                | 9        | The deleteHB did<br>not work as<br>intended. Excellent!   | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Excellent!   | 99                | 99                      | А  |
| 20 | 5025211126 | Aurelio Killian<br>Lexi Verrill | 20    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>Great work!    | 1                       | 1                        | 1             | 1    | 1              | 1        | 0             | Great work!  | 85                | 85                      | АВ |

|    |            |                            |       |                 |     | A                | /L Tree  |                  |                   |          |   | Decla-                   |                          |         |      |                | File-<br>name |               |                              | Original          |                         | Final                    |
|----|------------|----------------------------|-------|-----------------|-----|------------------|----------|------------------|-------------------|----------|---|--------------------------|--------------------------|---------|------|----------------|---------------|---------------|------------------------------|-------------------|-------------------------|--------------------------|
| No | Student ID | Name                       | isBST | printDescending | max | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation                                 | ration<br>(Valid/<br>NV) | Appro-<br>priate<br>Name | Subject | Body | Signa-<br>ture | Title         | Late<br>(min) | Final Remark                 | Grade<br>(Number) | Final Grade<br>(Number) | Final<br>Grade<br>(Char) |
|    |            |                            | 20%   | 10%             | 10% | 10%              | 10%      | 15%              | 15%               | 10%      |   | ,                        | 2%                       | 2%      | 2%   | 2%             | 2%            |               |                              | 100%              |                         |                          |
| 21 | 5025211138 | Ariella Firdaus<br>Imata   | 20    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Perfect score!                              | 1                        | 1                        | 1       | 1    | 1              | 1             | 0             | Perfect score!<br>Excellent! | 100               | 100                     | А                        |
|    | 5015111100 | inidia                     | 20    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | There is a slight                           | -                        | -                        | -       | -    | -              | -             | Ŭ             |                              | 100               | 100                     |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | error in the                                |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | checking of<br>whether a tree is            |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Christian Kevin            |       |                 |     |                  |          |                  |                   |          | BST or not.                                 |                          |                          |         |      |                |               |               | Please don't be late,        |                   |                         |                          |
| 22 | 5025211153 | Emor                       | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Excellent!<br>There is a slight             | 1                        | 1                        | 1       | 1    | 1              | 1             | 4             | next time. Excellent!        | 95                | 94.4                    | A                        |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | error in the                                |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | checking of                                 |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | whether a tree is                           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | BST or not and<br>please provide            |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | more on the output                          |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Ken Anargya                |       |                 |     |                  |          |                  |                   |          | pictureure.                                 |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
| 23 | 5025211168 | Alkausar                   | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Excellent!                                  | 1                        | 1                        | 1       | 1    | 1              | 1             | 0             | Great work!                  | 95                | 95                      | Α                        |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | There is slight error<br>in the checking of |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | whether a tree is                           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | BST or not and at                           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | rebalancing<br>algorithm as it              |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | affects other                               |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | function. Some                              |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Cuarifah Talitha           |       |                 |     |                  |          |                  |                   |          | function did not                            |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
| 24 | 5025211175 | Syarifah Talitha<br>Erfany | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | work as intended.<br>Great work!            | 1                        | 1                        | 1       | 1    | 1              | 1             | 0             | Great work!                  | 80                | 80                      | АВ                       |
|    | 5025211175 | Linaity                    | 10    | 10              | 10  | 10               |          | 10               | 10                |          | There is slight error                       | -                        | -                        | -       | -    | -              | -             | Ŭ             |                              |                   |                         | 7.0                      |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | in the checking of                          |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | whether a tree is<br>BST or not and at      |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | rebalancing                                 |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | algorithm as it                             |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | affects other                               |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Hanafi Satriyo             |       |                 |     |                  |          |                  |                   |          | function. Some<br>function did not          |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Utomo                      |       |                 |     |                  |          |                  |                   |          | work as intended.                           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
| 25 | 5025211195 | Setiawan                   | 15    | 10              | 10  | 10               | 7        | 10               | 10                | 8        | Great work!                                 | 1                        | 1                        | 1       | 1    | 1              | 1             | 0             | Great work!                  | 80                | 80                      | AB                       |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | There is a slight<br>error in the           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | checking of                                 |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            | Sandyatama                 |       |                 |     |                  |          |                  |                   |          | whether a tree is                           |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
| 20 | E02E21110C | Fransisna                  | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | BST or not.                                 | 4                        | 4                        | 1       | -    | 4              | 4             | 0             | Groat work                   | 95                | 95                      |                          |
| 26 | 5025211196 | Nugraha                    | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Excellent!<br>There is a slight             | 1                        | 1                        | 1       | 1    | 1              | 1             | U             | Great work!                  | 95                | 95                      | A                        |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | error in the                                |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | checking of                                 |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
|    |            |                            |       |                 |     |                  |          |                  |                   |          | whether a tree is<br>BST or not.            |                          |                          |         |      |                |               |               |                              |                   |                         |                          |
| 27 | 5025211202 | Glenaya                    | 15    | 10              | 10  | 10               | 10       | 15               | 15                | 10       | Excellent!                                  | 1                        | 1                        | 1       | 1    | 1              | 1             | 0             | Great work!                  | 95                | 95                      | А                        |

|          |   |            |  |          |                 |     | AV               | /L Tree  |                  |                   |          |   | Decla-                   | ration Appro-            |         |      | File-<br>name  |       |               | Original   |                   | Final                   |                          |
|----------|---|------------|--|----------|-----------------|-----|------------------|----------|------------------|-------------------|----------|---|--------------------------|--------------------------|---------|------|----------------|-------|---------------|--|-------------------|-------------------------|--------------------------|
| No       | , | Student ID | Name                                       | isBST    | printDescending | max | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation   | ration<br>(Valid/<br>NV) | Appro-<br>priate<br>Name | Subject | Body | Signa-<br>ture | Title | Late<br>(min) | Final Remark                                       | Grade<br>(Number) | Final Grade<br>(Number) | Final<br>Grade<br>(Char) |
|          |   |            |  | 20%      | 10%             | 10% | 10%              | 10%      | 15%              | 15%               | 10%      |   | -                        | 2%                       | 2%      | 2%   | 2%             | 2%    |               |  | 100%              |                         |                          |
|          |   |            |  |          |                 |     |                  |          |                  |                   |          | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm as it<br>affects other<br>function. Some<br>function did not                                |                          |                          |         |      |                |       |               |  |                   |                         |                          |
| 28       | 5 | 5025211220 | Fauzi Rizki<br>Pratama                     | 15       | 10              | 10  | 10               | 7        | 10               | 10                | 8        | work as intended.<br>And please provide<br>output picture in<br>your report. Good<br>work!  | 1                        | 1                        | 1       | 1    | 1              | 1     | 47            | Please don't be late,<br>next time. Great<br>work! | 80                | 72.95                   | В                        |
|          |   |            |  | 45       |                 | 10  |                  | _        |                  |                   | -        | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.  |                          |                          |         |      |                |       |               |  |                   |                         |                          |
| 29<br>30 |   |            | Ihsan Widagdo<br>Muhammad<br>Revel Wivanto | 15<br>20 | 10              | 10  | 10               | 7        | 10               | 10                | 5        | Great work!<br>The deleteHB did<br>not work as<br>intended. Excellent!  | 1                        | 1                        | 1       | 1    | 1              | 1     |               | Great work!<br>Great work!                         | 80<br>91          | 80<br>91                | AB                       |
|          |   |            | Rafi Aliefian                              |          |                 |     |                  |          |                  |                   |          | There is slight error<br>in the checking of<br>whether a tree is<br>BST or not and at<br>rebalancing<br>algorithm as it<br>affects other<br>function. Some<br>function did not                                |                          |                          |         | -    | _              | _     | -             |  |                   |                         |                          |
| 31       |   |            | Putra<br>Ramadhani                         | 15       | 10              | 10  | 10               | 7        | 10               | 10                | 8        | work as intended.<br>Great work!  | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Great work!  | 80                | 80                      | АВ                       |
| 31       |   |            | Javier Nararya<br>Aqsa Setiyono            | 20       | 10              | 10  | 10               | 10       | 14               | 14                | 9        | There is a slight<br>error in rebalance<br>and the delete<br>function on AVL<br>Tree. Excellent!  | 1                        | 0                        | 1       | 1    | 0              | 1     | 0             | Elaborate more on<br>yor email. Excellent!         | 93                | 93                      | AB                       |
| 33       |   |            | Afiq Fawwaz<br>Haidar                      | 15       | 10              | 10  | 10               | 10       | 13               | 13                | 8        | Please pay more<br>attention into<br>rebalancing<br>algorithm, as it<br>affects other<br>function. Some<br>function did not<br>work as intended.<br>And please use<br>template number<br>as given. Excellent1 | 1                        | 1                        | 1       | 1    | 1              | 1     | 0             | Great work!  | 89                | 89                      | Α                        |

|   |           |       |                 |       |                 |       | AV               | 'L Tree  |                  |                   |          |                                  | Decla-  |                          | Email Manner |      |      | File-<br>name |               |                     | Original |                         | Final           |
|---|-----------|-------|-----------------|-------|-----------------|-------|------------------|----------|------------------|-------------------|----------|----------------------------------|---------|--------------------------|--------------|------|------|---------------|---------------|---------------------|----------|-------------------------|-----------------|
| N | o Student | ID N  | Name            | isBST | printDescending | max   | isHeightBalanced | insertHB | rebalanceForLeft | rebalanceForRight | deleteHB | Explanation                      | (Valid/ | Appro-<br>priate<br>Name | Subject      | Body | ture |               | Late<br>(min) | Final Remark        |          | Final Grade<br>(Number) | Grade<br>(Char) |
|   |           |       |                 | 20%   | 10%             | 10%   | 10%              | 10%      | 15%              | 15%               | 10%      |                                  |         | 2%                       | 2%           | 2%   | 2%   | 2%            |               |                     | 100%     |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | There is slight error            |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | in the checking of               |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | whether a tree is                |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | BST or not and at                |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | rebalancing                      |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | algorithm as it<br>affects other |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | function. Some                   |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           | Yusna |                 |       |                 |       |                  |          |                  |                   |          | function did not                 |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   | 50252112  |       | a<br>turrosyida |       |                 |       |                  |          |                  |                   |          | work as intended.                |         |                          |              |      |      |               |               |                     |          |                         |                 |
| 3 |           |       | turrosylua      | 15    | 10              | 10    | 10               | 7        | 10               | 10                | 8        | Great work!                      | 1       | 1                        | 1            | 1    | 1    | 1             | 0             | Great work!         | 80       | 80                      | AB              |
|   | (1050)    |       |                 | 15    | 10              | 10    | 10               | ,        | 10               | 10                | 0        | There is slight error            | -       | -                        | -            | -    | -    |               | Ŭ             | Great Work:         | 00       | 00                      | ~~              |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | in the checking of               |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | whether a tree is                |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | BST or not and at                |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | rebalancing                      |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | algorithm as it                  |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | affects other                    |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | function. Some                   |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | function did not                 |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | work as intended.                |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           |       |                 |       |                 |       |                  |          |                  |                   |          | And please provide               |         |                          |              |      |      |               |               |                     |          |                         |                 |
|   |           | Immar | anuel           |       |                 |       |                  |          |                  |                   |          | output picture in                |         |                          |              |      |      |               |               | Please use template |          |                         |                 |
|   | 50252112  |       |                 |       |                 |       |                  |          |                  |                   |          | your report. Great               |         |                          |              |      |      |               |               | subject next time.  |          |                         |                 |
| 3 | 5 (ADIK)  | Samos |                 | 15    | 10              | 10    | 10               | 7        | 10               | 10                | 8        | work!                            | 1       | 1                        | 0            | 1    | 1    | 1             | 0             | Great work!         | 78       | 78                      | AB              |
|   |           | Minim | -               | 15    | 10              | 10    | 10               | 7        | 10               | 10                | 5        |                                  |         |                          |              |      |      |               | ļ             |                     | 78       | 73                      | В               |
|   |           | Maxin |                 | 20    | 10              | 10    | 10               | 10       | 15               | 15                | 10       |                                  |         |                          |              |      |      |               |               |                     | 100      | 100                     | A               |
|   |           | Avera | age             | 16.43 | 10.00           | 10.00 | 10.00            | 8.63     | 12.29            | 12.29             | 8.66     |                                  |         |                          |              |      |      |               |               |                     | 87.89    | 87.62                   | Α               |

| Grade Distribution      |    |      |  |  |  |  |  |  |  |  |  |  |
|-------------------------|----|------|--|--|--|--|--|--|--|--|--|--|
| Category Amount Percent |    |      |  |  |  |  |  |  |  |  |  |  |
| A                       | 18 | 51%  |  |  |  |  |  |  |  |  |  |  |
| AB                      | 16 | 46%  |  |  |  |  |  |  |  |  |  |  |
| В                       | 1  | 3%   |  |  |  |  |  |  |  |  |  |  |
| BC                      | 0  | 0%   |  |  |  |  |  |  |  |  |  |  |
| С                       | 0  | 0%   |  |  |  |  |  |  |  |  |  |  |
| D                       | 0  | 0%   |  |  |  |  |  |  |  |  |  |  |
| E                       | 0  | 0%   |  |  |  |  |  |  |  |  |  |  |
| Total                   | 35 | 100% |  |  |  |  |  |  |  |  |  |  |