# Assignment 2 - COS212 (2023)

Marking scheme: **Best mark**
Current mark: **137 / 800**

## ⊕ Make new submission

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Due date: **05-05-2023 23:59**
⬇ Specifications

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☐ I hereby accept the declaration given and agree to be bound by the terms of the declaration.

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## Submission 1 / 3

| **Uploaded at:** | 22:18:28 25/04/2023 |
|---|---|
| **Mark:** | 137 / 800 |

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| ☰ Tasks | ✔ Marks | 💬 Feedback |
|---|---|---|
| DBNonTreapOperations | 0 / 25 | Run time exception: Exception in thread "main" java.lang.NullPointerException at Database.findFirstWhere(Database.java:127) |

| 🗐 Tasks | ✔ Marks | 💬 Feedback |
|---|---|---|
| DBTreap | 45 / 360 | Section 1 [1/1] Correct<br>Section 2 [1/16] Incorrect structure of index after generation<br>Section 3 [1/16] Incorrect structure of index after generation<br>Section 4 [15/15] Correct<br>Section 5 [1/16] Incorrect structure of index after find<br>Section 6 [1/16] Incorrect structure of index after find<br>Section 7 [1/16] Incorrect structure of index after find<br>Section 8 [1/16] Incorrect structure of index after find<br>Section 9 [1/1] Correct<br>Section 10 [1/15] Incorrect structure of index after remove<br>Section 11 [1/15] Incorrect structure of index after remove<br>Section 12 [1/1] Correct<br>Section 13 [1/14] Incorrect structure of index after remove<br>Section 14 [1/14] Incorrect structure of index after remove<br>Section 15 [1/1] Correct<br>Section 16 [1/13] Incorrect structure of index after remove<br>Section 17 [1/13] Incorrect structure of index after remove<br>Section 18 [0/1] Unwanted exception thrown during update / incorrect data returned<br>Section 19 [1/13] Incorrect structure of index after update<br>Section 20 [1/13] Incorrect structure of index after update<br>Section 21 [1/1] Correct<br>Section 22 [1/13] Incorrect structure of index after update<br>Section 23 [1/13] Incorrect structure of index after update<br>Section 24 [2/2] Correct<br>Section 25 [1/15] |

| Tasks | Marks | Feedback |
|---|---|---|
| | | Incorrect structure of index after insert Section 26 [1/15] Incorrect structure of index after insert Section 27 [5/75] Incorrect structure/(s) of index/(es) after generateIndexAll |
| ErrorHandeling | 26 / 35 | Section 1 [4/4] Correct Section 2 [1/1] Correct Section 3 [1/1] Correct Section 4 [4/4] Correct Section 5 [4/4] Correct Section 6 [2/2] Correct Section 7 [3/3] Correct Section 8 [2/2] Correct Section 9 [2/2] Correct Section 10 [1/1] Correct Section 11 [1/3] Unwanted exception thrown/incorrect structure during generateIndex Section 12 [1/4] Missing edge case for insert Section 13 [0/1] Unwanted exception thrown during insertion Too much output Section 14 [0/3] Missing edge case for insert |

| ☰ Tasks | ✔ Marks | 💬 Feedback |
|---------|---------|-------------|
| TreapAccessFunction | 26 / 240 | Section 1 [0/3] Incorrect structure after insertion<br>Section 2 [3/6] Incorrect result returned from access<br>Section 3 [0/3] Incorrect structure after access<br>Section 4 [1/1] Correct<br>Section 5 [0/7] Incorrect structure after access<br>Section 6 [1/1] Correct<br>Section 7 [0/7] Incorrect structure after access<br>Section 8 [1/1] Correct<br>Section 9 [0/26] Incorrect structure after insertion<br>Section 10 [1/1] Correct<br>Section 11 [0/26] Incorrect structure after multiple accesses<br>Section 12 [2/2] Correct<br>Section 13 [0/30] Incorrect structure after multiple accesses<br>Section 14 [2/2] Correct<br>Section 15 [5/30] Incorrect structure after multiple accesses<br>Section 16 [2/2] Correct<br>Section 17 [0/30] Incorrect structure after multiple accesses<br>Section 18 [2/2] Correct<br>Section 19 [1/30] Incorrect structure after multiple accesses<br>Section 20 [4/4] Correct<br>Section 21 [1/26] Incorrect structure after accessing non-existent data |

| ☰ Tasks | ✔ Marks | 💬 Feedback |
|---|---|---|
| TreapInsertRemove | 40 / 140 | Section 1 [5/5] Correct<br>Section 2 [0/10] Incorrect structure after insertion<br>Section 3 [4/4] Correct<br>Section 4 [0/18] Incorrect structure after insertion<br>Section 5 [8/8] Correct<br>Section 6 [0/34] Incorrect structure after insertion<br>Section 7 [5/5] Correct<br>Section 8 [0/22] Incorrect structure after removal<br>Section 9 [3/3] Correct<br>Section 10 [0/16] Incorrect structure after removal<br>Section 11 [8/8] Correct<br>Section 12 [7/7] Correct |