**CCDSALG Term 2, AY 2022 – 2023**

Project 3 – Binary Search Trees

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Names** | **Task 1** | **Task 2** |
| <Sec> | <LastName1>, <FirstName1> |  |  |
| <LastName2>, <FirstName2> |  |  |
| <LastName3>, <FirstName3> |  |  |

Fill this part with your section and names. For the tasks, put an X mark if you have performed the specified task. Please refer to the project specifications for the tasks.

**IMPLEMENTATION DISCUSSION**

Explain the implementation and indicate the worst-case time complexity of the functions.

**Task 1 – Implement Binary Search Tree (BST) operations**

|  |  |  |
| --- | --- | --- |
| **Function** | **Big-oh** | **Implementation Details** |
| create() |  | // Your answer here |
| insert() |  | // Your answer here |
| search() |  | // Your answer here |
| inorder() |  | // Your answer here |
| preorder() |  | // Your answer here |
| postorder() |  | // Your answer here |
| maximum() |  | // Your answer here |
| minimum() |  | // Your answer here |
| parent() |  | // Your answer here |
| successor() |  | // Your answer here |
| predecessor() |  | // Your answer here |