

**DBDS**

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**Classes:**

* **Data:**

Contains all elements of data file including ID, Cause, Cause Name, etc. It also contains Line number and Filename of where it originally belongs. Furthermore, it contains necessary operator overloading functions for comparisons.

* **AvlTree:**

Templatized with Data class, Contains the implementation of an AVLTree and a special QUEUE for DUPLICATES.

Insert()

Delete()

Write()

Rotations()

* **RBTree:**

Templatized with Data class, Contains the implementation of an RBTree and a special QUEUE for DUPLICATES.

Insert()

Delete()

Write()

Rotations()

FixViolations()

* **Queue:**

Templatized with Data class, Contains the implementation of a Queue and a special QUEUE for DUPLICATES.

Enqueue()

Dequeue()

* **PQueue:**

Templatized with Data class, Contains the implementation of a Priority Queue and a special QUEUE for DUPLICATES.

Enqueue()

Dequeue()

Int main():

Contains the Menu and all other necessary functions.

