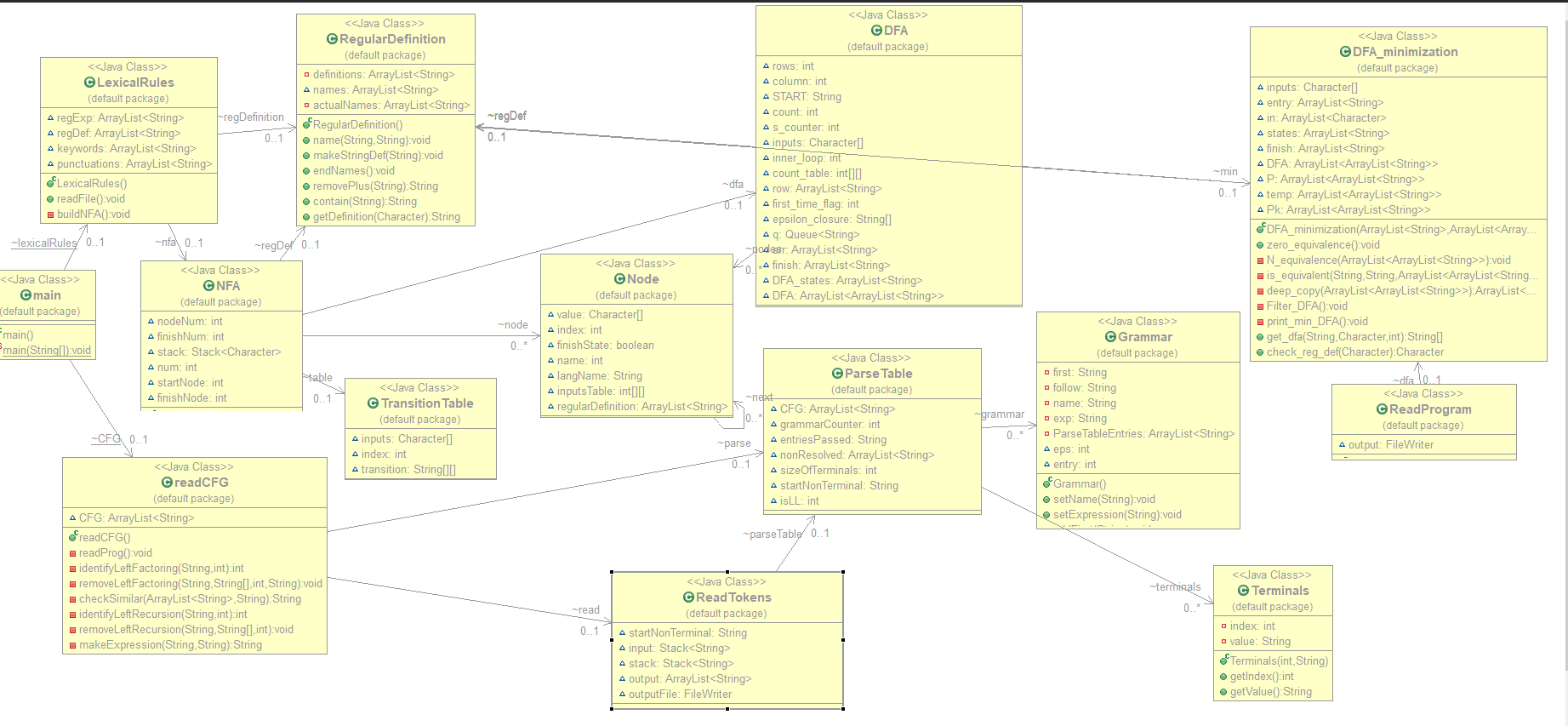
**PLT**

**Phase Two Report**

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* **Class Diagram Figure:**



The class diagram consists of both classes used in phase one and two.

* **Data Structures:**
* **Algorithms and techniques:**
* **Used tools:**
* **Functions Explanation:**
* **Assumptions:**
* **Sample Runs:**

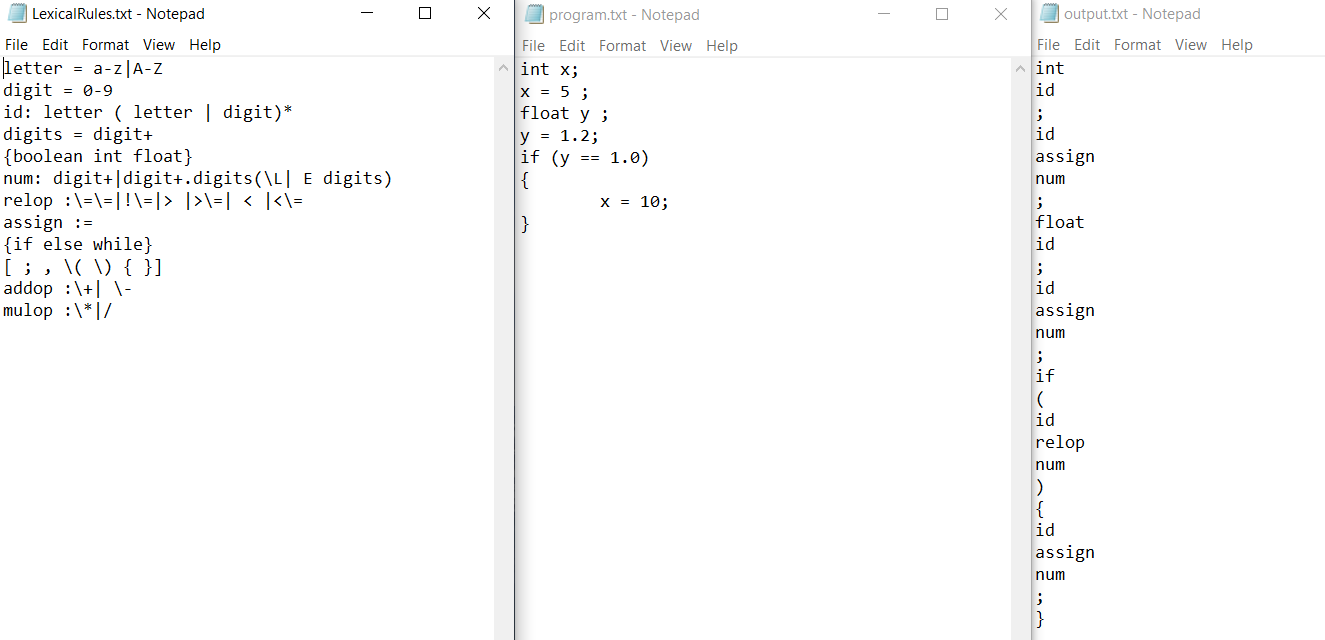


Figure: The three text files from phase one.

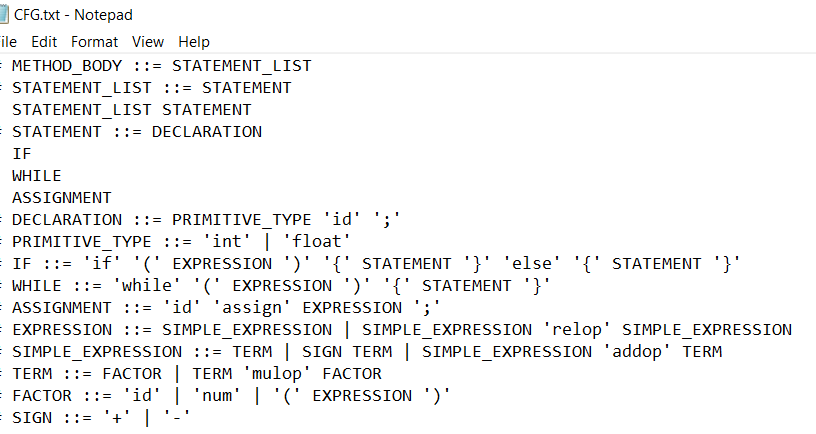


Figure: the CFG text file.

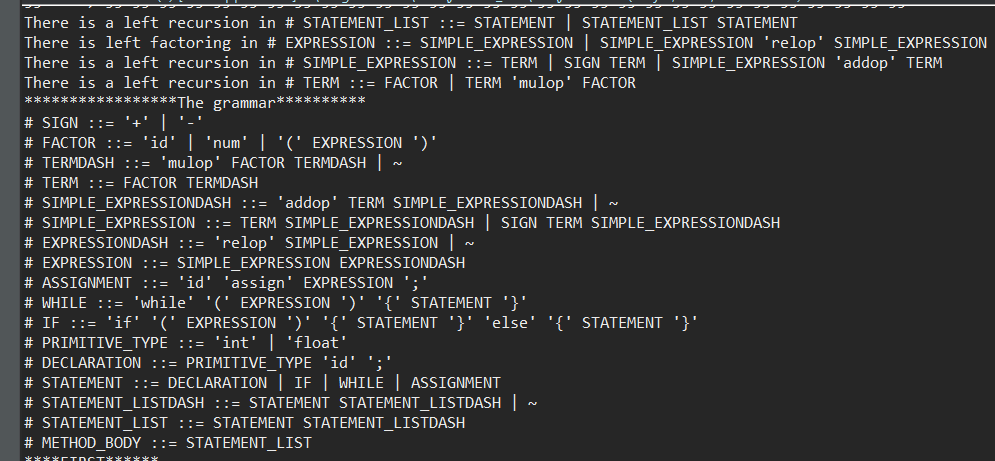


Figure: The grammar in runtime , there was Left recursion & Left factoring.

Note that the new grammar is printed from bottom to top

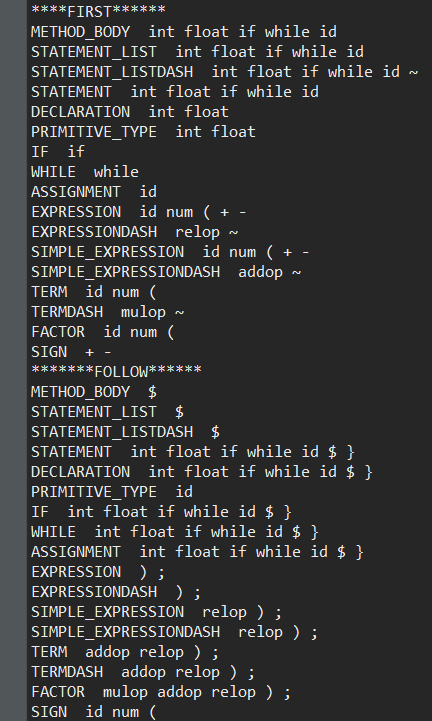
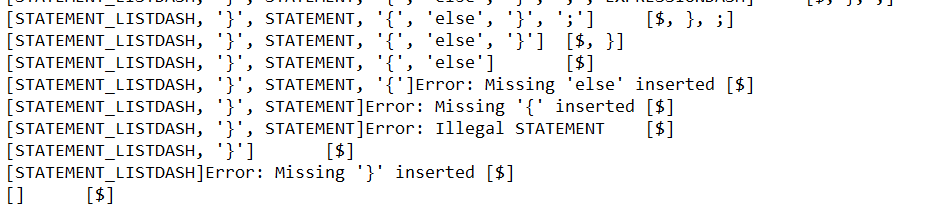
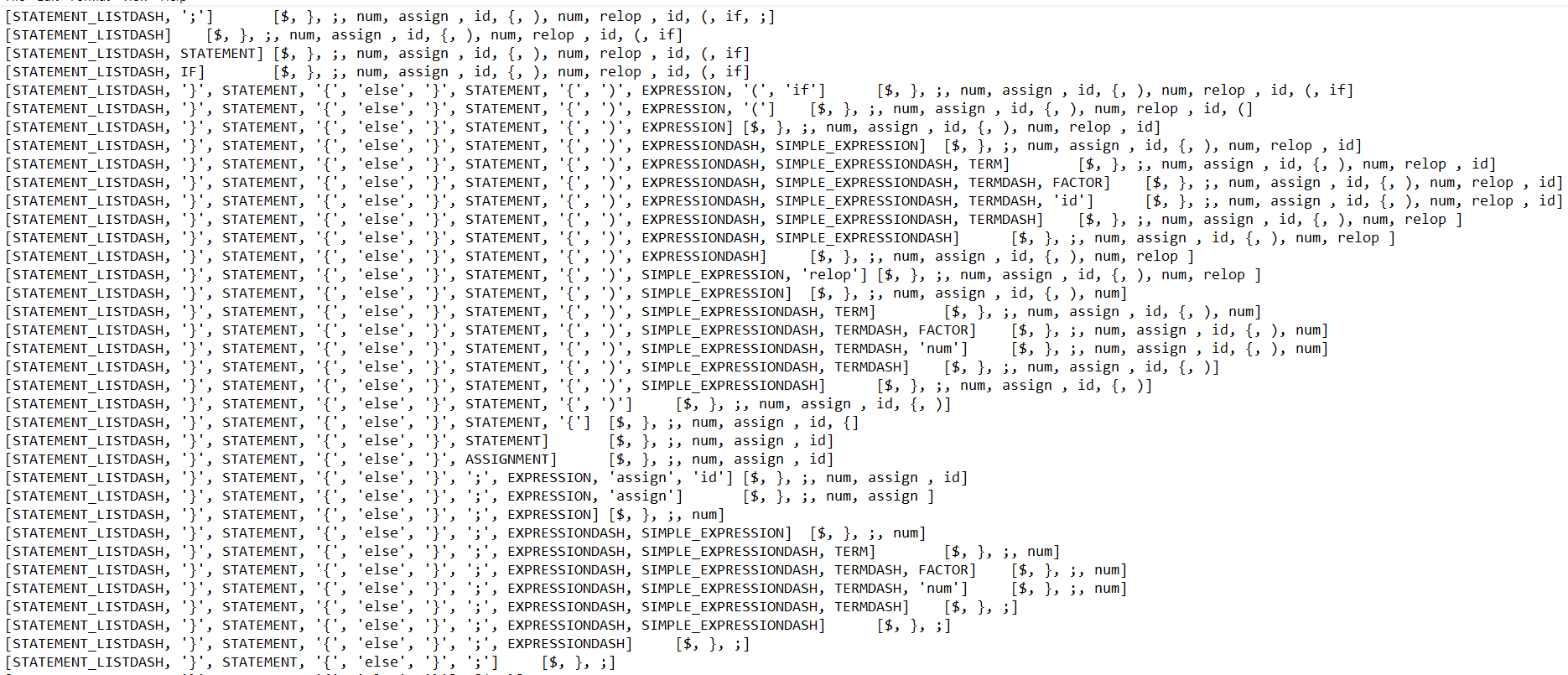
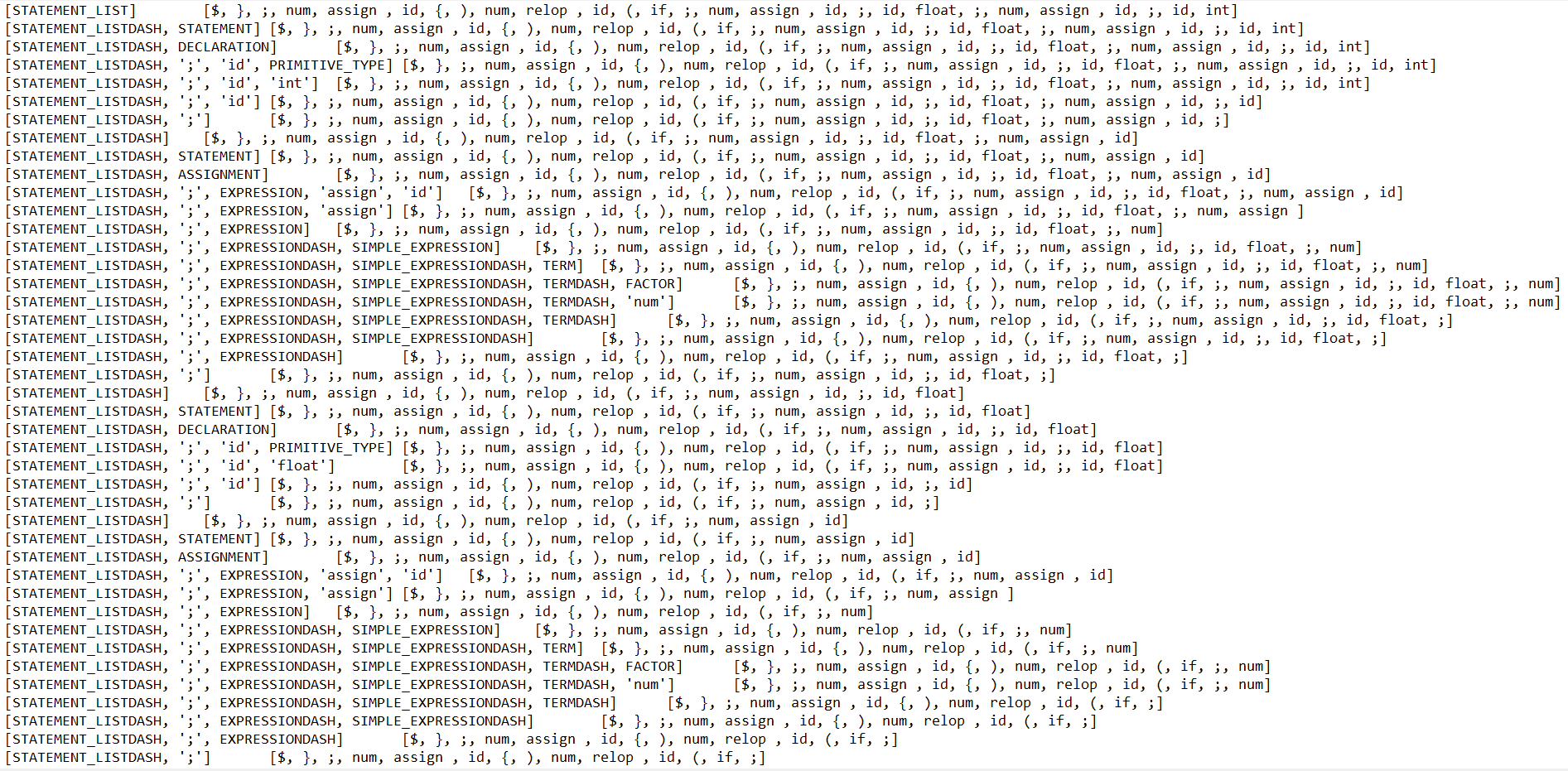


Figure: First & follow , Note that ‘~’ means epsilon.

The **parsing table** was too big to fit the screen so I divided it as follow :

|  |  |
| --- | --- |
|  |  |

Each Non terminal with it’s entry in the parse table is printed alone , the ‘-’ sign means that nothing is present when this terminal is the input and ‘~’ means epsilon .



Here you can clearly see the method used in errors :Panic mode ,When else was not found in if statement.

* **Design :**