![A close up of a device

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEphcnZpcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzU5AACSkgACAAAAAzU5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Programming Language Translation Project Report

Java Compiler

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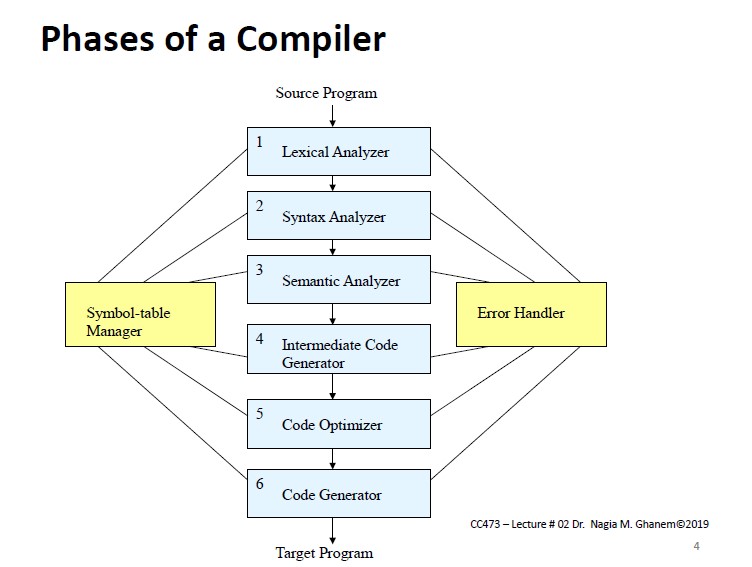
**Abstract & Objective:**

In this project it is required to implement the front-end part of a compiler for a chosen subset of the java language and produce the intermediate code of the given input.

This project aims to practice techniques studied during the semester for building automatic lexical analyzer generator tools, automatic parser generator tools and for constructing semantics rules to generate intermediate code.

**Introduction:**

**Compiler** Program that translates from one programming language to another programming languages (maybe machine language)



**Figure 1 Phases of a compiler**

**Problem description:**

It is required to develop a suitable Syntax Directed Translation Scheme to convert Java code to Java bytecode, performing necessary lexical, syntax and static semantic analysis (such as type checking and Expressions Evaluation).

Phase One  
Lexical Analyzer Generator

**Part One: Data Structures used:**

1-Stack: Used this data structure in order to help in implementing the NFA automata, by pushing the characters of the Regular expression and popping them when I find either of these cases:

* When the character read is ‘(‘, It will pop the elements from the stack
* When the expression is all pushed in the stack, then pop the expression and start building the nodes.
* When the character is ‘)’ then pop the elements from the stack.



**Figure 2 Stack**

2- ArrayList : Used the array list to add strings into a list , this was used several times in the code like in the class LexicalRules when reading the input file I simple add the Line I read into an ArrayList to handle it.

3- 2D arrays: This helps in storing the transition table.

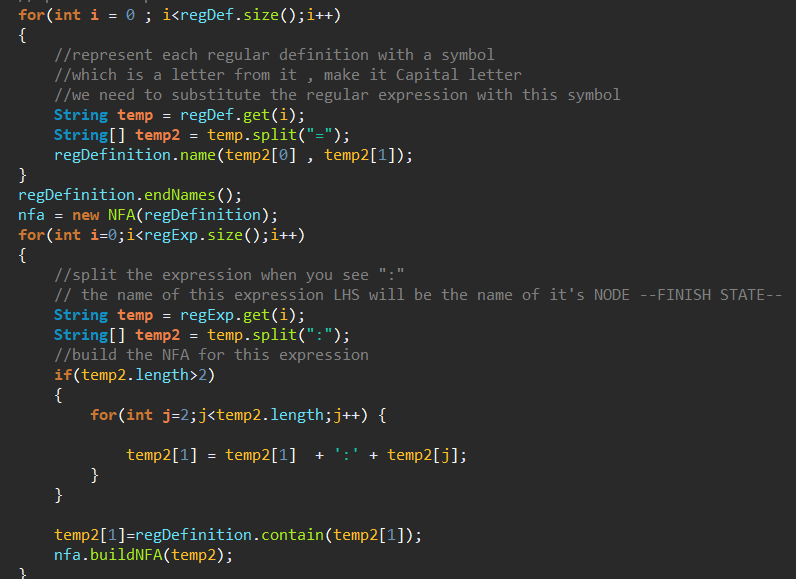
**Part two: Algorithms & Techniques used:**

1- Implemented an array of Nodes that was used in building the automata, it is a **graph** but implemented from scratch in order to add more functions to the nodes present.

2- The 2D array that was mentioned in the data structures section.

3- Split() , used this algorithm to split when I see the occurrence of a certain String

**For example:**

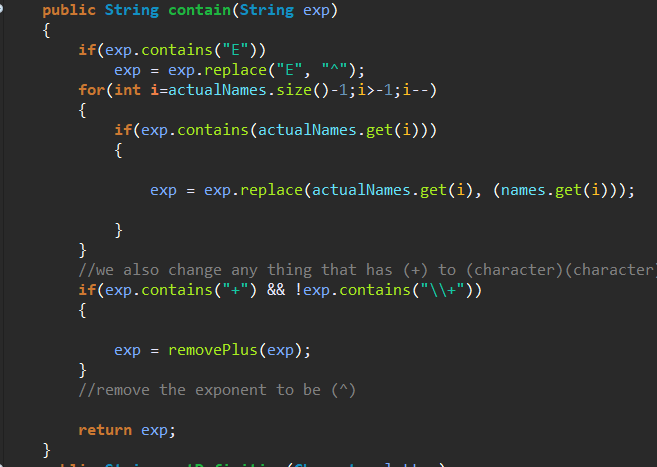


**Figure 3 Split()**

Here I split the regular expression and the regular definition whenever I find ( :) , (=).

4-replace() , Used this algorithm to replace a certain String with another one .

**For example:**



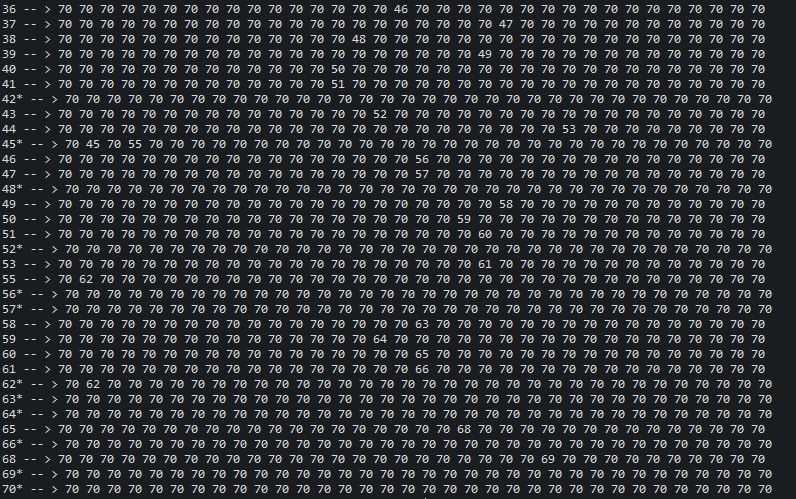
**Figure 4 replace( ) demonstration**

In the figure above, each regular expression containing a reference to a regular definition will be replaced by it’s alternative, also E will be (^).

**Part three:   
Transition Table for minimal DFA:**   
70 is the Ø state in this example.

A picture containing fabric

Description automatically generated



**Part Four: Test files outputs:**

**1-Test Case Output 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case 1** | **Test Case 2** | **Test Case 3** | **Test from pdf** |
| program  id  ;  var  id  ,  id  :  integer  ;  begin  id  assign  num  ;  while  id  relop  num  do  begin  id  assign  id  addop  num  ;  read  (  id  )  ;  if  id  relop  num  then  id  assign  id  addop  num  else  id  assign  id  addop  id  end  ;  write  (  id  ,  id  )  end  . | program  id  ;  var  id  ,  id  :  integer  ;  begin  id  assign  num  ;  id  assign  floatNum  ;  id  assign  num  ;  while  id  relop  num  do  begin  id  assign  id  addop  num  ;  read  (  id  )  ;  if  id  relop  num  then  id  assign  id  addop  floatNum  else  id  assign  id  addop  id  end  ;  write  (  id  ,  id  )  end  . | program  id  ;  var  id  ,  id  :  integer  ;  begin  id  incop  ;  id  decop  ;  while  id  relop  num  do  begin  id  assign  id  addop  num  ;  read  (  id  )  ;  if  id  relop  num  then  id  assign  id  addop  floatNum  else  id  assign  id  addop  id  end  ;  write  (  id  ,  id  )  end  . | int  id  ,  id  ,  id  ,  id  ;  while  (  id  relop  num  )  {  id  assign  id  addop  num  ;  } |

**Part Five: Assumptions:**

* Assumed that the epsilon has a symbol (~)
* Assumed that whenever a (E) was found in the regular expression then it will be replaced with the symbol (^) as the (E) means exponent.
* Assumed that the regular definitions will be replaced with the capital letter of its first letter **ex**: letter = A-Z|a-z Would become: L = A-Z|a-z

So that it will be replaced when it is found in any regular expression **ex:**  id:letter\* would become id:L\*

* Assumed that the arrows would carry a value that is a character **always**, so when I read the regular expression if there are two character they would be separated as two different nodes
* The regular definitions will be replaced with an exception in every node

So that wouldn’t be any confusion if a node has several arrows

Making the regular expression L-{any other character that has an arrow in this node}.

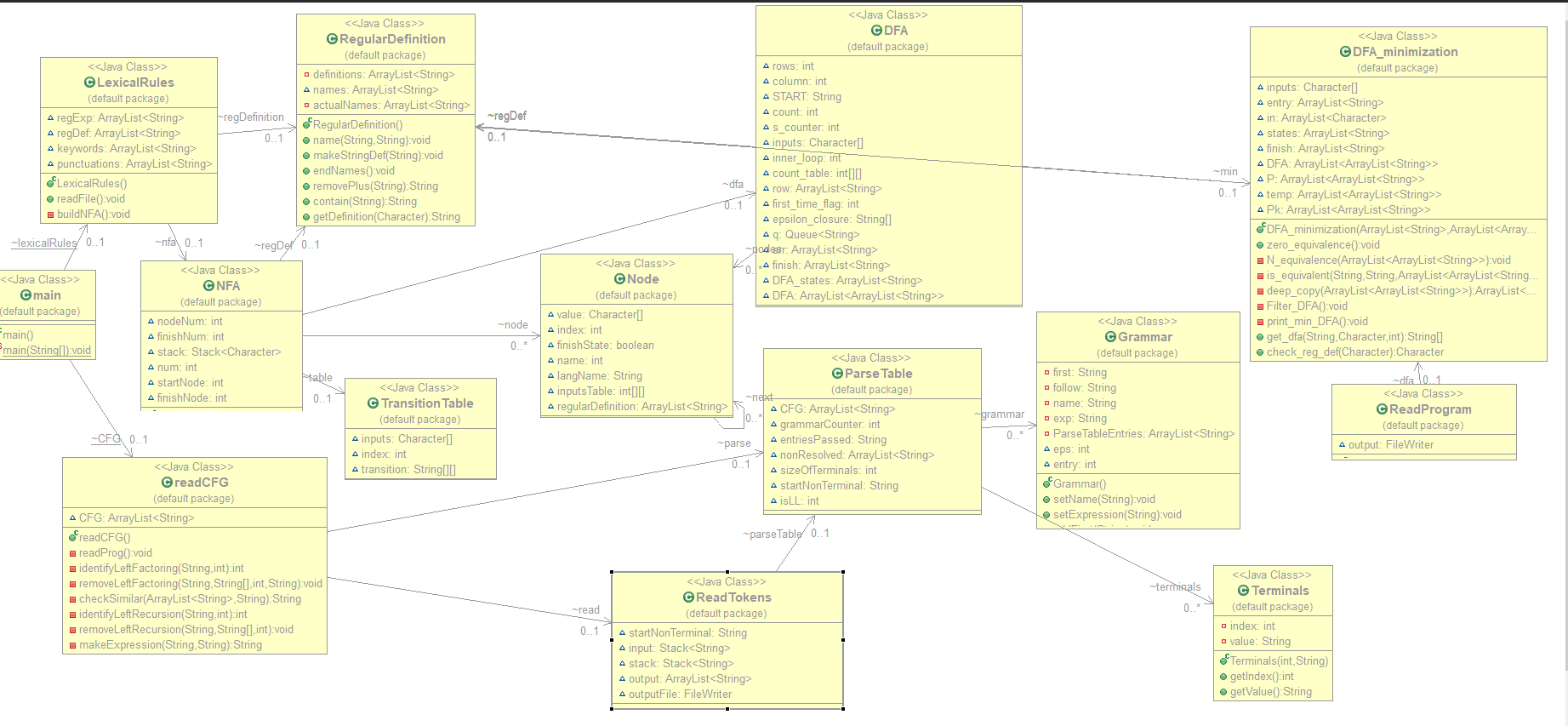
* The code is sensitive to spaces for example in lexical rules.txt the punctuations should be separated by spaces

[\( \(]] 🡪 There should be a space between them.

Phase Two

Parser Generator

**Class UML Diagram Figure:**



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

**Data Structures:**

**Stack:** It was used in phase two when applying the parse table and the tokens (from phase one as input), to determine if it is accepted to the CFG or not. (In **ReadTokens** class).

**ArrayList :** It was used several times  
**-**In class **ReadCFG**, an arraylist is used to store each CFG read from the input file.  
**-** In class **ReadTokens,** an arraylist was used to store the output of terminals that were accepted by the CFG.

**Algorithms and techniques:  
-First:**1-Read the CFG from bottom to up.  
2-Split it each time we see ( | )  
3- for loop on each definition   
 -If this definition begins with a terminal ( ‘ ) then it’s first is this terminal.  
 -Else:  
 - If this definition is (~) i.e.: epsilon then put epsilon in the first  
 -If this definition is nonterminal, then get the first of this nonterminal   
 There are two possibilities:  
 1- If this non terminal’s first doesn’t contain epsilon, then continue.  
 2-If this non terminal’s first contains epsilon, then add epsilon to it’s first.

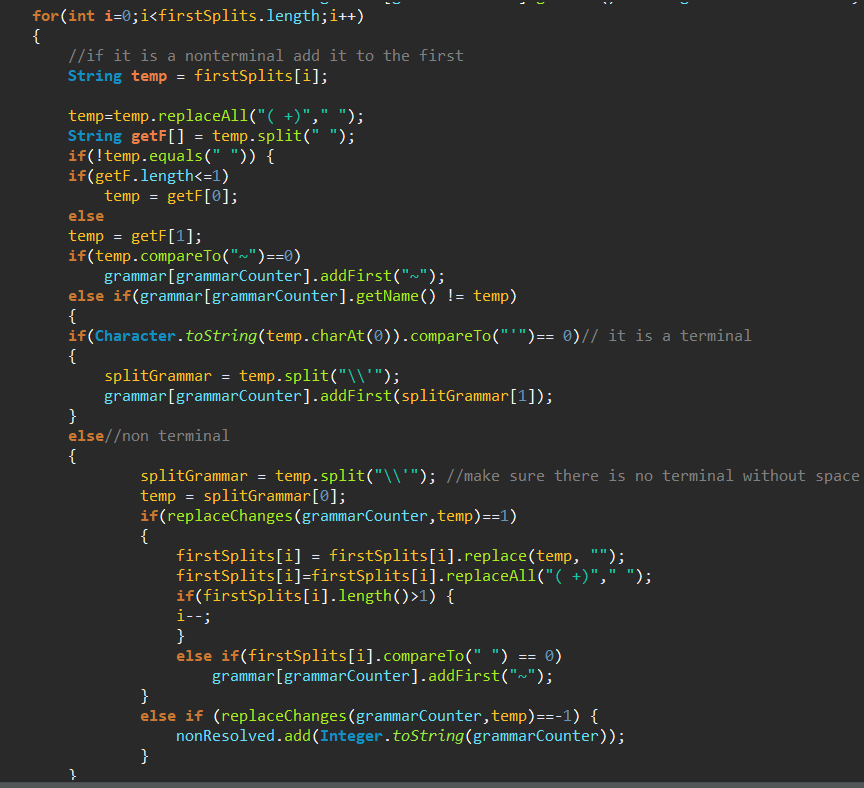
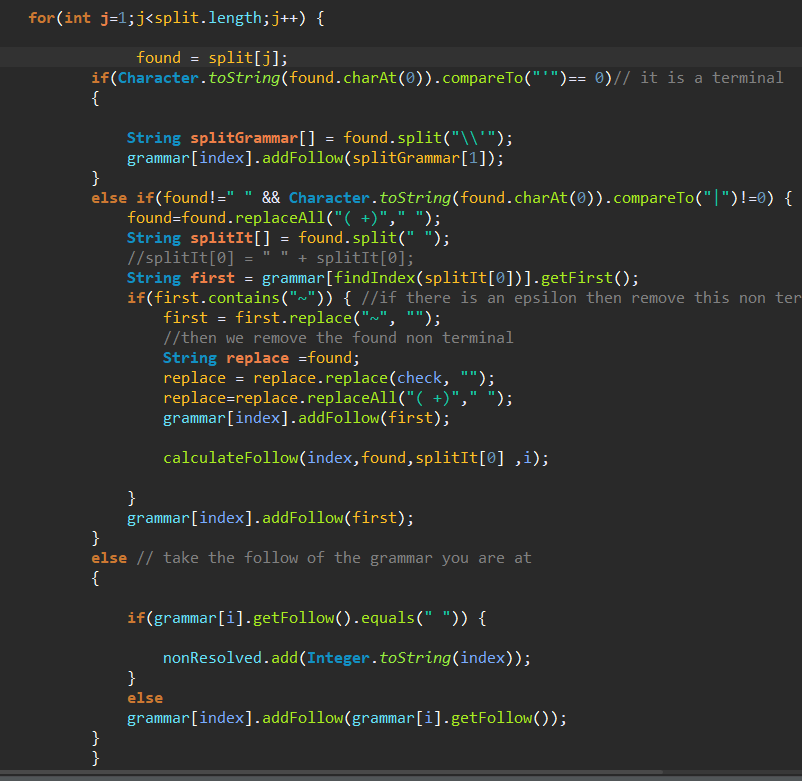


Figure CalculateFirst, for loop.

**-Follow:**1-Read the CFG from top to bottom2- Split it each ( | ) , and check the occurrence of the CFG name in all the CFGs.3- When there is a match , Split on the occurrence of its name then loop :

* If there comes a terminal after its name, then add it to follow.
* If there comes a non-terminal after it, then add the non-terminal’s first
* If the first contains epsilon, then you need to remove epsilon and replace the non-terminal’s place and calculate the follow once more.
* If it doesn’t contain epsilon, then simply add the non-terminal’s follow
* If there is nothing after its name, then it’s follow is the follow of the CFG it’s at



**Figure 6 CalculateFollow, for loop.**

**Functions Explanation:**

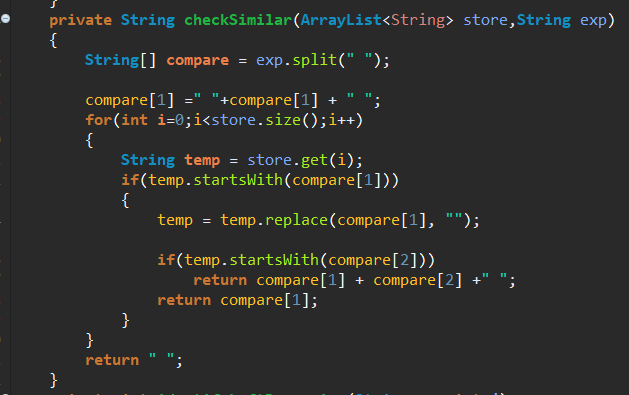
**-Left Factoring:  
1-Identify it:**



This function is used to identify if the grammar has Left factoring or not, so it begins by splitting the CFG with the name and the definition, then checks if there are any similar terminals/non-terminals between the OR

Ex: # A ::= ‘a’ B | ‘a’ C ,, there is left factoring , similar = ‘a’  
The array list called **store** stores the definitions that were checked before so we can check for I in the function **checkSimilar**

**2- check for similarities:**



This function checks for similarities between the previous and the definition that we have now, so we check for max of the first two terms if they are similar or not.

First, we check **compare [1]** if there is a match! then check **compare [2]**  
Return the common term.   
Else return blank String – no similarity —  
If there are similarities, then go to function **removeLeftFactoring**

**3-Remove Left Factoring:**



This function is responsible for removing the left factoring and making two new CFG expressions rather than one.



The algorithm is rather simple, it splits the CFG when it sees ( | ) then checks if the similar String matches it , if yes then add in **newExpression** the expression without the common similar Else add in the expression normally to **temp.** At the end you will have two CFG expressions.  
Temp will take the name of the original CFG New expression will take the name of the original CFG + add “DASH” to it.

**-Left Recursion:**

**1-Identify it:**

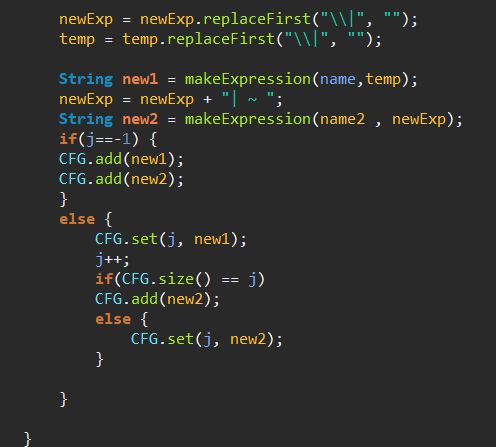
Identify the left recursion by checking if the name of CFG occurs as the start of the definition, split the definition each ( | ) and check the start String .



**2-Remove Left Recursion:**

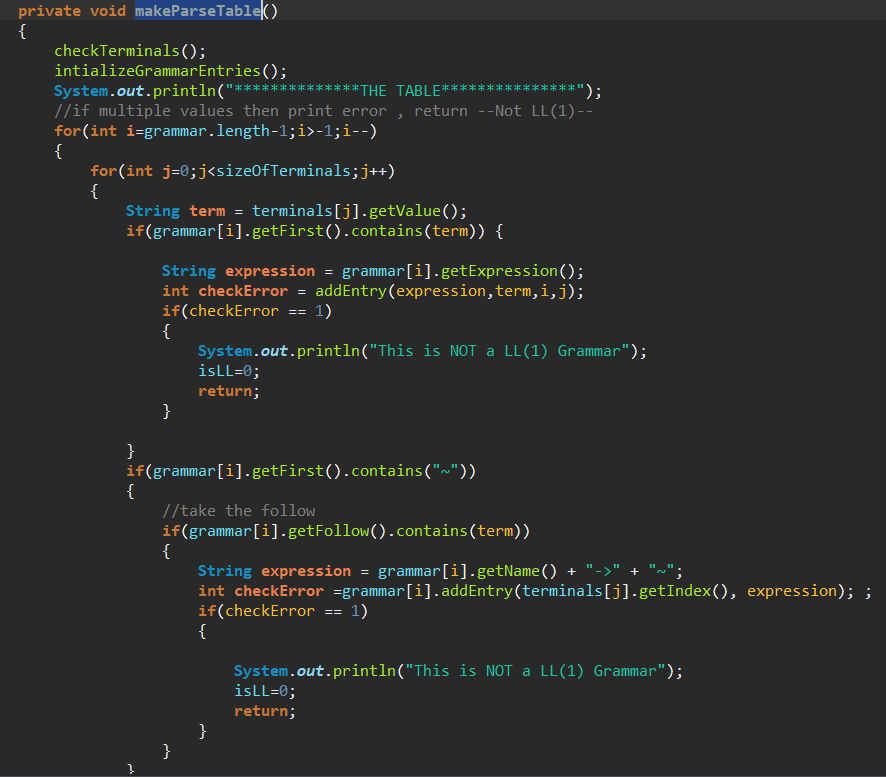
Removing the left recursion algorithm is to take the splitting string ( | ) then checking each String if it starts with the name of the CFG then add it to the new Expression (after removing the occurrence of its name)

Else then add it to temp and also add the new name to it (new name is original CFG name + DASH)



Then add the new Expression and temp to the CFG as we did in the left factoring.

**makeParseTable:**



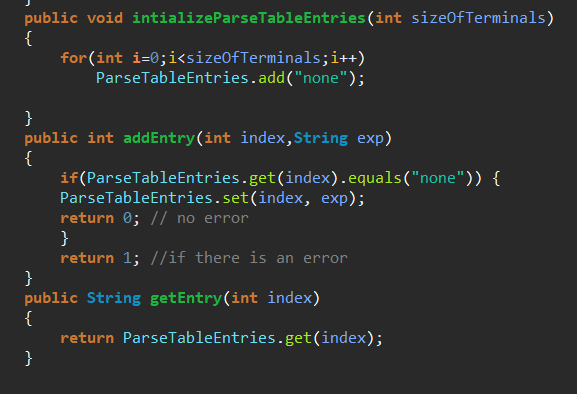
This function uses the first and follow that was calculated for each CFG to build the parse table, each grammar has a class called **Grammar**, each have an entry to the first, follow and the parse table entries.

There will be two for loops, the outer loop is for CFG the inner will be the terminals, so for building the parse table we will build it line by line.

In inner loop:

* We’ll get the first of this CFG then check if there is already an entry in this position –If there is an entry so it is NOT a LL(1) grammar –else It will add an entry to the table.
* If the first has epsilon(~) then we see the follow , and add entries

NameOfCFG -> ~ where (~) is epsilon –Check if there was already an entry in the table if yes then it is NOT a LL(1) grammar.



**-Grammar Class:**

As stated above each CFG has an entry in Grammar class, so there are three functions responsible for the **parse table**

**1-intializeParseTableEntries:** This is used to fill up the ArrayList that will hold the entries to the parse table, so it initializes them with ‘none’ to indicate that they are empty.

**2-addEntry :** This is used to fill up the entry to the parse table to this CFG so it first checks if it is empty then set it with the expression given else there is an error (Not a LL(1) grammar)

**3-getEntry:** This function is used to get the entries to the parse table so simply give the index to a specific terminal and it returns its expression to this terminal.

**- Stack tracking:**

We have two stacks the input line stack and the normal stack, this function takes the peek of both stacks as arguments, then checks if the stack peek is a nonterminal if yes it compares it with the input stack and pops both if equal, else panic mode error is printed.

If the peek of the stack is an expression, we call a function to bring its output from the parse table according to our input (peek of the input stack).

If the output brought from the table equals “none” i.e. table cell is empty for this output, panic mode error is activated, and a suitable error message is printed.

**Figure 7 Stack method**

If the output equals epsilon we just pop the stack and return.

After that, if we reach this point it means that the output brought from the parse table is valid, so pop the stack and insert the replacement expressions brought from the table.

Lastly, we print the new stack and write it to the output file.

**Assumptions:**

1-The CFG in CFG.txt are all separated by spaces, each line should end with a space.

Ex: # METHOD\_BODY ::= STATEMENT\_LIST .

2- If there is a left recursion then it would be **direct,** Left factoring is applied to at most two commons.

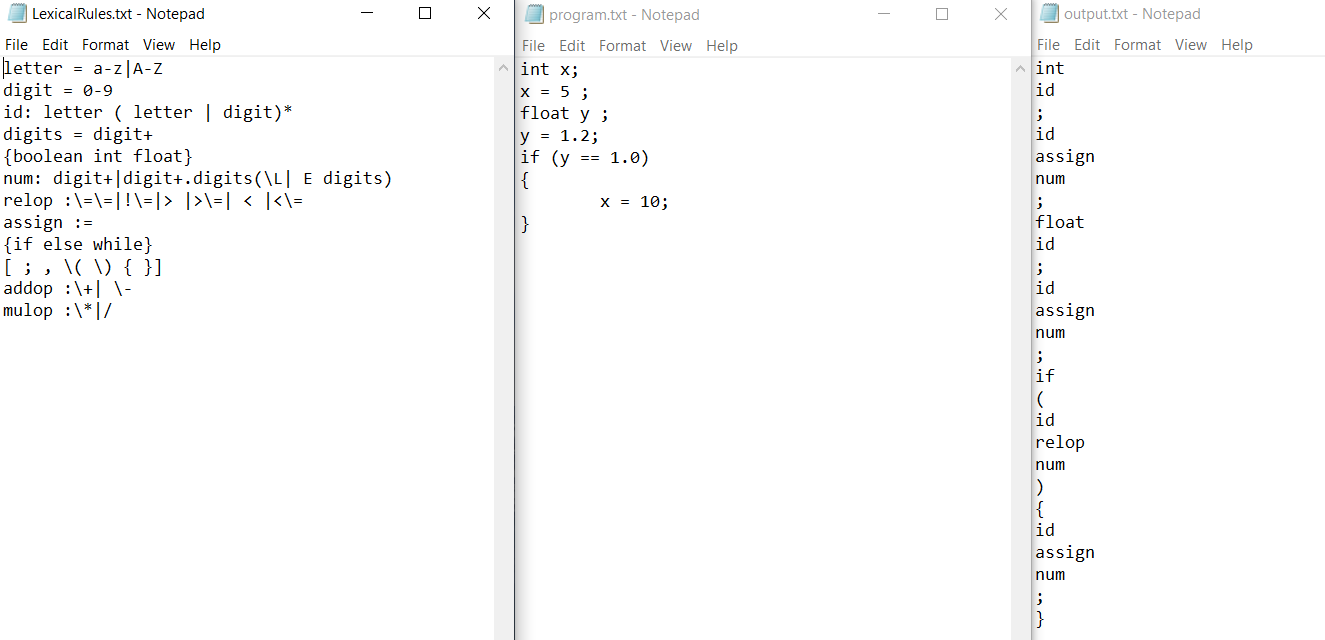
3- If there is an error in the tokens from the last phase, Then the parser simply ignores this token. –Removes it --

4- The terminals are taken from the CFG so when a token is inserted that is not part of the CFG the parser ignores this token. --Removes it—

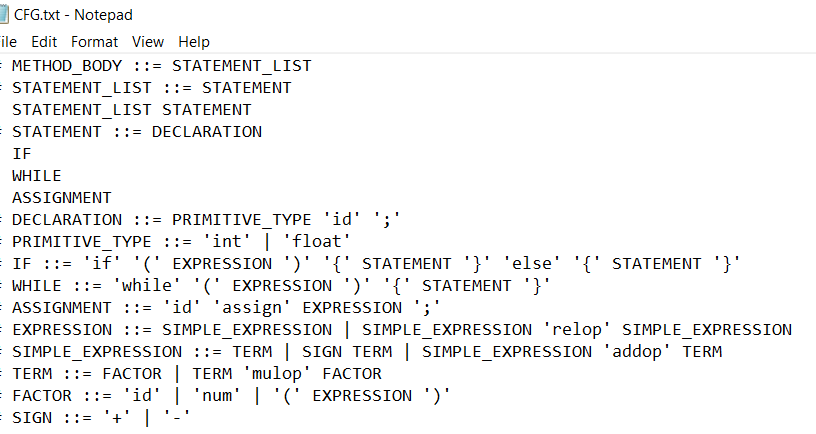
5- The terminals must be in the form ‘id’.

6- Each CFG must begin with #.

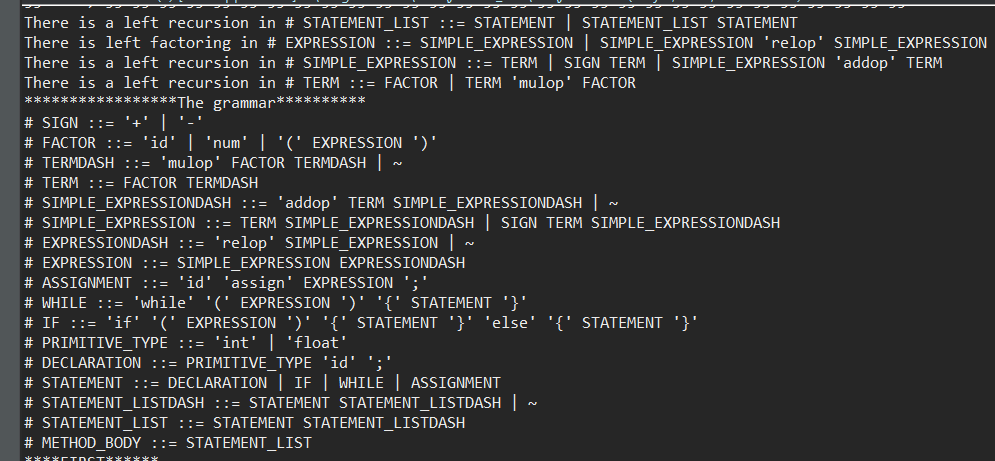
**Sample Runs:**



**Figure 8 The three text files from phase one.**



**Figure 9 The CFG text file.**



**Figure 10 The grammar in runtime, there was Left recursion & Left factoring.**

Note that the new grammar is printed from bottom to top

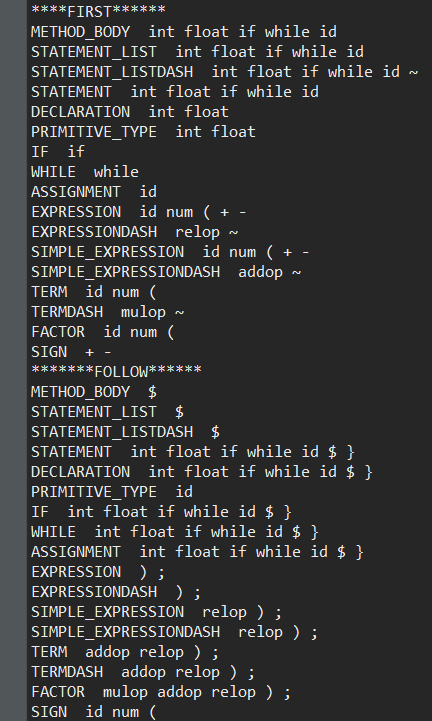
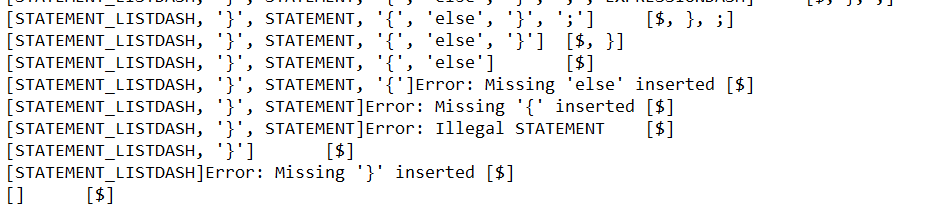
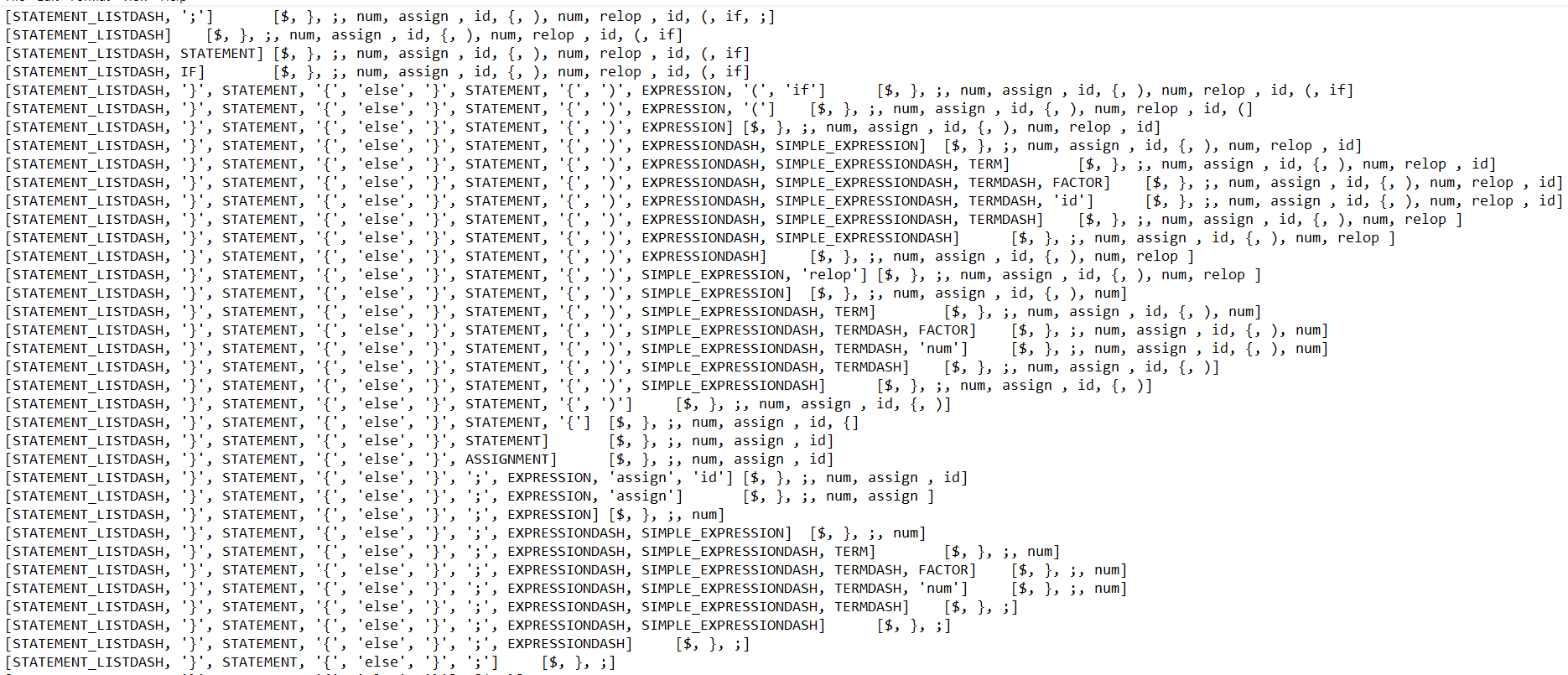
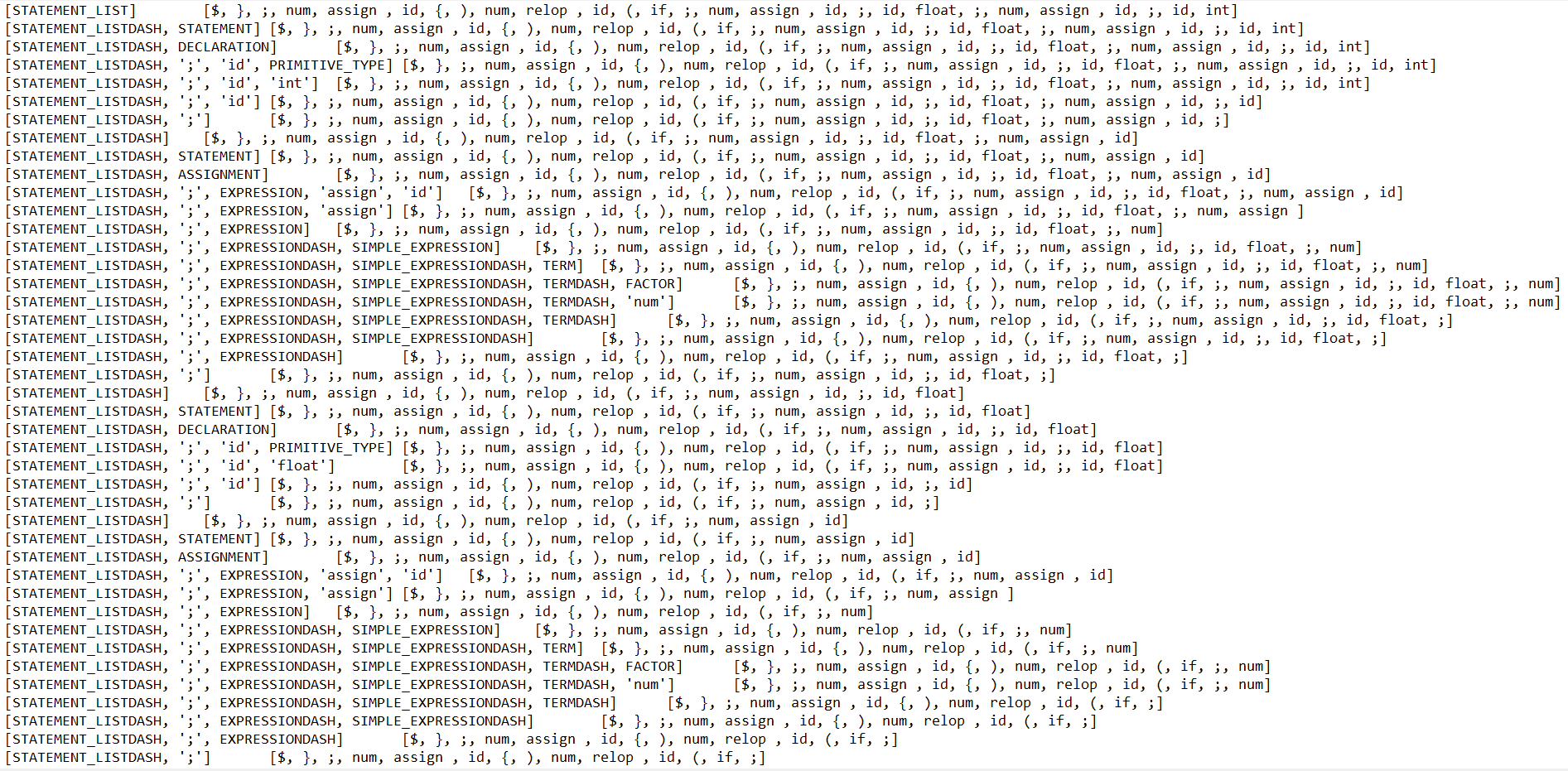


Figure 11 First & follow. (Note that ‘~’ means epsilon)

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

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

Each Nonterminal with its entry in the parse table is printed alone. The ‘-’ sign means that it goes to nothing 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.



Phase three

Java Byte Code Generation

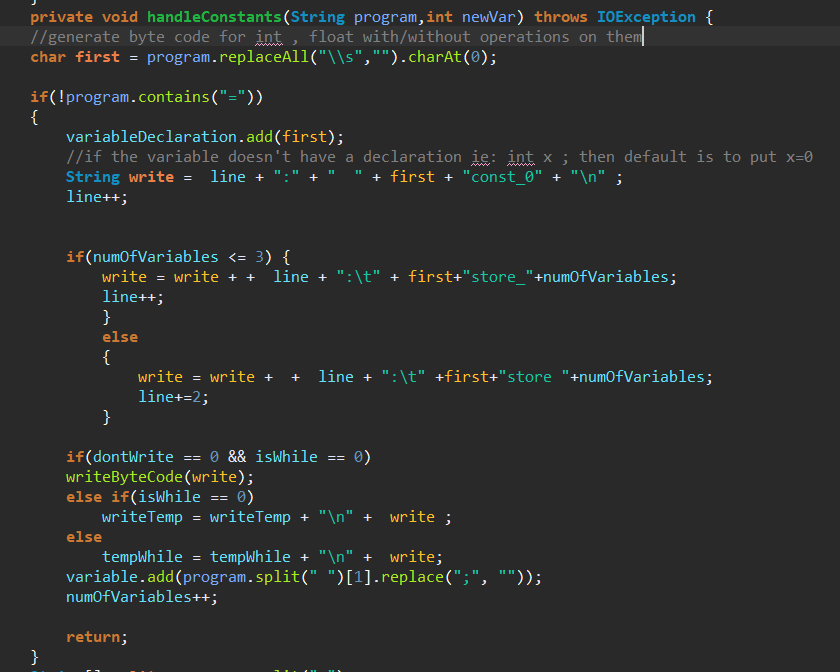
**Description:**

We implemented this phase using our own parser generator implemented in phase two, instead of bison –Bonus Part –

This phase won’t run unless phase two has no errors i.e.: No semantic errors in the program.

**Functions explained:**

1) **handleConstants** – This function handles the cases of declaration of a new variable, applying operation on it



The above handles the case of int x; or float x;

We set the default of any new variable as (0) –Initialize the variable- so that there wont be any problems faced if we don’t initialize the variable

First we check if the line contains (=) – no initialization – then we add it’s type whether it is an int or float to an arrayList called **variableDeclaration** and also add the new variable to another arrayList holding the names of each variable called **variable**

The variable **numOfVariables** is just a counter to count the number of variables found in the program, this helps in writing the bytecode as when storing, loading the variables they should be placed in certain places.

The variables **line** is also a counter, but it counts the bytes that is used by bytecode.

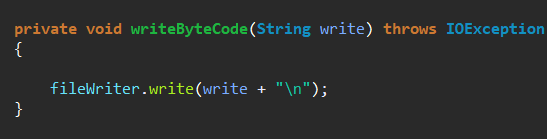
In bytecode there are default store mnemonics either in int(i) or float(f)

Store\_0 Store\_1 Store\_2 Store\_3 -🡪 Take only 1 byte

Store 4~more 🡪 Take 2 bytes, one byte for opcode one byte for the number, as it is not built in

That’s why the code checks if numOfVariables is <=3 to see which mnemonic to use.

dontWrite & isWhile are both variables used when (if) or (while) is present, they will be explained later.



If there is no (if) nor (while) then we write directly to the output file .

**2) Primitive types with declaration:**



The rest of –handleConstant—function, checks if the declaration of a certain constant is an operation or a number

It first splits on (=) then String check is the number/Operation after the (=)

The int called newVar is used as a flag to check if this variable was already declared or not , if not then we have to get it’s primitive type (int or float) and it’s index.—To load and store it—

The **try catch** is used to check if the declaration is a number or an operation

b-1) **handleNum**

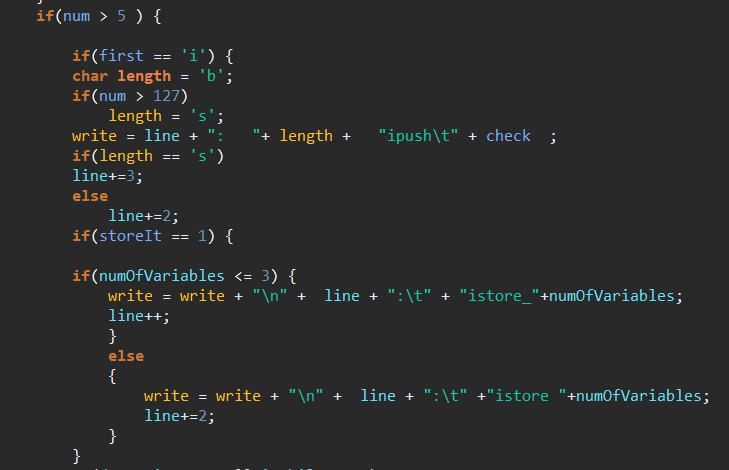
There are certain cases for a number to be loaded to the stack in bytecode, here it shows if it is a negative number.



If num == -1 then the bytecode mnemonic is iconst\_m1

Then we check if we want to store it or not yet , if yes we do the same as we did before and that is checking the numOfVariables and choosing the right mnemonic to use and how many bytes .

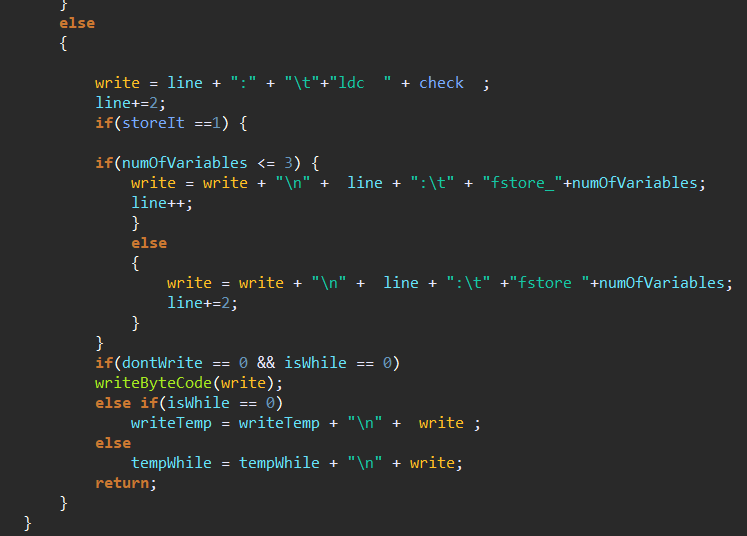
And check the (dontWrite and isWhile) that will be explained later.



If a number is greater than 5 then we need to use different mnemonics for int and float, the above shows the case of int

If the num is short, meaning the num > 127 then we will use sipush num, this takes 3 bytes, 1 for opcode 2 for the num

If it is less then, it is a byte 🡪 bipush num, this takes 2 bytes, 1 for opcode 1 for num.



This is the same as the previous but if the declaration is float we use 🡪 Idc num with 2 bytes

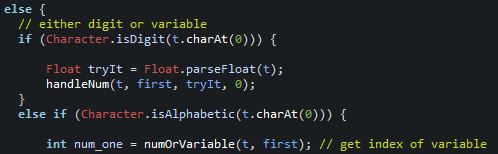
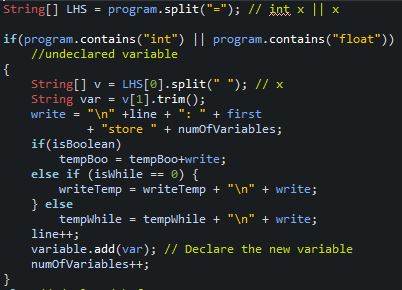
**b-2) handle\_A\_op:**

![A close up of text on a black background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEphcnZpcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzgxAACSkgACAAAAAzgxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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XtYBLIQQWkEShyc8k7gee9ZFa0XUkueel0tO3z6/cRLlWi+8esErW7zrE5hRgryBTtUnOAT2JwcfQ0yumsdf0238G3lhNo9hJcvPAy72uMyhVlBckSAAruGAMA7jwe3P2VwbS/t7lesMqyD8DmuqKTnyvYzeiuiGlUbmC5AycZPQV2cus6HbyP9gkVSbyIM6xMPNiEnmFzx1DcY64A44rFl1y/v9UTzNXeCOKZ3gnkZx5AP90qCyjAAwBj2rX2cFa8t/8AgdbmalJ30KLaXMdUksLV4buSPdh4JAUcKCSQxxkYBqnXXnW4LLxzNf2mrk2l4X8ySDzV27lIBcFQTgkHjP50mla2lnJfefq0M99I0ZS/mkutroAcpuTbIOo4IwcewqlSg/tW3/rcXPJdDkaK6zSkvL228UX0V7Hp9o1s3mtFakwXB3giFWb7hJ5H8XHTrXJ1zdbGy2uFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraTpFtqem6lM13LFdWVubhYhAGSRQVBy+8EHLf3T9aya6Dw3faPY2epLqlxfRyXls1sotrRJVUFlbcS0i8/LjGPxqkrp+j++2n4ifQpx6JIfDM+sTC5iRZkjh/wBEcxTZzuPm/dBGBx1OfaoJdF1SDTxfT6beR2Z24uHgYR/MAR8xGOQQR9a1dPvdDg8Lajp9xd6gLi8kjddlkjIvlltoJMoPO4Z4496nl8VwSR3ystxIs2l2llEj4Kq0RiLZ54UlHxj+90GTVWi93/VhXd/67/19xg3ekalYW0NxfafdW0FwMwyzQMiyDGflJGDx6VHd2VxYzJFdR7HeNJVG4HKuoZTx6gg11fiHxlHqDST6ZNtNxci5ls5tHtQgYBvvSDJmwWIG9ec5PNU9Y8ZT32o21xb29iFht4Y8SaXbHLLEqtxsOVyDtB6DGAOlTZc1hrbUxJdLvotXfSzbSPfJKYTBEN7FwcbRtzk59KhMk8MclqzyRoXBkhJIBZcgZHqMn6ZNdU2sJ4n+IqXrzrptn9raUXEPkWU0URbJbeMbnA9SzE9M1zF/5J1K5+yzSTwec/lyyfedcnDH3I5qE3ZXH3K9FFFMAooooAKKKKACiiigAooooAfNNLczvNcSPLLIxZ5HYszE9SSepplFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABSoVEimQFkyNwU4JHsecUlKiGSRUXALEAbmAH4k8CmI1PEOnW2nX0H2DzhbXVrFcxrOwZ0DrkqWAAbBzzgfSqmn6Zd6pO0VlGrsiGR2eRUVFHVmZiAo6ck9xWp4puNj2OmQXMckFnaRB47eUPCJioMhBU7WOeCwzkjqcVH4b8Ry+Hp7ookrR3cBhkME5hlXnIZHAO0ggdjRG13fbX/AIAp8yjpvoXNC8MxzeIZdH16C5hnMDSxvBOgUYjLg/dYODgYII/Gsmz0O/vrB72FIUtkfyzLPcxwqWxnaC7DJxzgZrY0/wAWW1n4gk1W5ttSv5fKMUf2nUg7KrKVbcxi+brx0x703QvFdtoK3UcNld3FtOW/0O4u0e3ZSBjzEMXzEED5htPbir91/wBeZleotUu3/BM228N6reaeL23tg0JV3UGVA7qn3mVCdzAdyAeh9Ky66hPGs3/CP2+mv/aFubaN442sNQMEbKxyN6bW3YJPcZHHvXL1MuW+hpFy15jd1Tw7JaQaSlpa3Mt1exMxCSRzpKwbH7ryiTj1zzmp/F3hyPw1LDaC0vxJtQteTnEUxKAsEXYMYJx949Kh1rXbDU9G0+xttOubdrBGSKSS7WQMrMWOQI15yeoI/GqniLWf7f1uXUPI+z+Yka+Xv3Y2oF64HXGaqXLrbv8AgRDnuubs/vIdH0yTWdXgsYnWMyklpG6RoAWZj7BQT+FXbTQo9Xm1GTS51itbZC8Qu541dxkAbssuMg5z0HSofDd/b6br0M18G+yukkExUZKpIjRswHcgMTj2pbadNE1K9tpwl7BJG1vI1tMAHXIIZHwR1API9sUQ5eb3trP7/wCrGkr208jNmiaCZ4nKFkOCUcOv4EEg/UVqWnhXV73TPt9tbxNEUeRENzEs0qJncyRFg7qNrZKqR8rehxXt7rTYo79ZdNeczR7bVnuSDbNnO44ADnHGCAOa6KDx/cJ4Pg0R5NYgNtBJBEdP1Y28EisS372HYwc5YgkFcjAPTNZvbTcpb6mU/g7W49FbVZLaFbZIEuGVruETLE7BVcw7vMCksMHbg5B6VXn8N6rbNdi4t1i+xXi2VwzzIFjmbdhSd2MfI3zdBjk11kfirTNW8N+IHms1s9Vl0m2t2mku8rcGKWBQI49owSqbmGW+7kbRmorv4h6fNK81v4cxLc6vDq159ovPNSZ035jC7BtQ7z1yRzktxh6X/ruv0uH2b9f+B/mc9c6DNoVxaT67brc2E7MA2nahDIJCuMqJU8xVYblJBBOCOOaua14SePx1qeh6CDJFaMxD3dxHHsjABLPI21B1xk47etX/ABJ48tvE8em22pWWqz2tlPPMzXGr+dcSCQL8okaLChSnACkYPryWXnjTT7jxtN4htLHWdPe4VvNS01hEcscDh/I+5gYKkHPr2qVfS/n/AMAbt0MbTtAM2sXFtqE0aW9jE093LbTJMBGuOEZSVYkkKMEjLCl0iDw9PHI2sXN1bN54CLGd37rY5yTsPIYRj8Tx3GjFrmn6t4k1TdaQaRaata/ZUVAqpAw2FHbaqqMvGNxVVHzEgDpXKupR2RsEqcHaQR+Y4NZ1IOpHlu16Di1F33/4YStiW30AaCJIbu5OpeTGfKI+TzDI4cfd6BAhHPUnr2pQ6tqNvYSWNvqF1FaSZ326TMsb565UHBqpSlCU3q7WfR7+un9dwTS8zV1PTILbT9O1GyeSS0vEKsHI3RzJgSJkduQwOOjDuDSa9pcWm3kLWUjy2N5CtxavIBu2HI2tjjcrBlOO6571Z1WeGHw/pWi208c8iu93cOjgoskgUBN3ThUXJ6ZYjtTfEt1bltP0yzmS4h0y28gzIcrJIWZ3KnuoZyAe4XPetn+pKKvh/TU1jxFYadNIYo7mdY3deqqTyR74qpeNbNeSGwilit8/Ik0okYD3YKoP5CtXwhqEen+KLNrufyrKaQQ3YY/I8TH5lcd19QfSsu9tXsryS3kaJmjOC0Myyofoykg/gaA7kFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWlBoF9c2sFxbqskcyliVb/VgOE+b8SOmeOfWs2tfTfEt7pdvbw26QskEzTDepO7K4KnBHy98eta0/Z3/ebET5re6LL4ceCItcalYREmURo7vmQxkg4O3AyRxuIzkU2ewgTw5Z3KG3Ly3DJJOryZX5VOxlKgcZzlc5zVK6v5ruCCKYLiDdtIHJ3MWOfxNWn1lX0VdN/s20VFbeJQZd+8gAt9/GSAOMY9qacOV97L9L/r/VxWldFvUvDkUN3ZW2m38N3PdRw7YQHDFnGcglAAufU59araz4dvdDjhkusNHMWVW8uSPkYyMSKp7jnGPek/t6f/Q5Ft4Eu7PYI7ob95VfugjdtI7fd7VVvryK8dWisLazIyW+zmTDZ9d7Nj8MU5um0+Xv+H9b/gKPPpcNP06fU5mitntkZV3E3N1FAuPZpGUE+3WtGzi07R7yeDxFbJeHEZjNpdJKq/vFLfNG+05QMMZ6kdOtZ2n6pqGkzNNpV9c2UrLtZ7aZo2I64JUjjim32oXmp3RudSu57ucgAy3EpkYgdBknNctSHPHlu16aG0XZ3NFLay1Gw1VrC3Mc1tJ9phBYkm3zhlIzjK5U5643U618LXF1psN2l7ZK89vLcRWzO3mukRbf0XA+4SMkZ7c5Az9K1A6XqcN2IxKqEiSJjgSIRhkPsQSPxq1F4guLeS3NvFEEtraa1iV8sdkpfOTkZI8w4PHQcVyVI4iLapPz19Hp99vvZrFwes/61/4f8B8t1oTaCIYtPmXUfJjUzlzt8wSOXbG7oUKDp1B6d8y2tZ725jt7OCS4nkO1IokLMx9AByaiorqp01C+rd3fV3MpSvY39W8OX/hW+tZdU0uaa2kjif8A0u3lijdmjDNHkEHKkkHBByvbpV+bRNOHxRk0pI7eGyW7VEt55ZVSQEjEe9VdhnOMnp61gzau11qUF5e2lvciGGOHyH3qjrHGEXO1g2cKDwRz7cVoy+LjN4nTXX0XTftSsJNoM+wyAghyPNzkY6Zx7V0QcU033M5Xa07Edr4bbUJNQl+22OnW9pcrAxuZHIDOW2hdqlm+4e3v0yRfsPhxrmoS3UcSorW109pxHLIryr1G5EYKOR8zlRz14OMm78QSXC3SQ2NraR3VxHcukPmEB0D4xvdjzvOefTGKtT+LZr1rn+1NMsL9J7qS7VJvNUQPJ9/YUkU4OBwSen1pR5VGz/rb/gjle+hgOjRyMjjDKSCPQ1vXPg3WrXw3FrEum36xtI4dWtHAjjVUIkLf3W3kA9PlPJ7YFWn1CWTSINOKp5MM8k6sAdxZ1RSDzjGEHb1qOhXXyK8RRZkMi7kDAsvqPStXWp9Eu5Yl0Kzksx5su8zOTlC+Yxyx6LgH+vWsilVtrhsA4OcEcGs5U+aSnd6eenzXUfM1FruWNQs/7P1Ca0+02915TbfOtn3xv7q3cVWqzqF5/aGoTXf2a3tfNbd5NtHsjT2VewqtTp83IubfqOVuZ22NjRbrQreBhrWnzXUnnBlaNyP3exwV4Yc7yh/A/Q49FFKNNRk5Xevnp8uwnK6S7G/c+DdatfDcWsS6bfrG0jh1a0cCONVQiQt/dbeQD0+U8nthwRrLOkckyQKxwZJAxVfc7QT+QNTvqEsmkQacVTyYZ5J1YA7izqikHnGMIO3rVWteouh0evadptlqdvp9vLYoqhfNnBuC/wBwEl8gjkk42Lx3qveaJ53iPUbSA21jFa7pGDyu6RoCBw23c3X0yapXGptd6sb67toJiQA0TbwhwoUdGB7Z61YvfEEt5eXVyLO1gku4jFN5W/DZIOfmY4PA6ce1dEpU3d+v5aGKUlZCweHnuJLnyr+0e3tollkuUEjptb2VCwxznKjGOe1SWOiWd1ot5eS6rbwyQSoi7ll2gHdycRk844x75xVHS9S/sy4E62kM8qkNG8jyqYyO4KOv65qaHXJVlvWuba3ukvn8yaKUMq7gSQRsZSOp796lOnp8+/yG1P8AIzCMEgHPuO9b9z4N1q18NxaxLpt+sbSOHVrRwI41VCJC391t5APT5Tye2ATkkgY9h2q0+oSyaRBpxVPJhnknVgDuLOqKQecYwg7etYdDXqV4iizIZF3IGBZfUelb1zBpevarZ2PhiyktJJp5VJndiCpcmMdWPypwcDJ9z15+pbaZILlJJbeO5RTzFKWCt9dpB/IisatNy96Ld1e3b5rRP5lRlZNdy9Pobxz30UV3BP8AYYfNmKrImPnVCuHRTuBYcEDvzWlD4YjTSr77fdWltNGbORLiV32Ik0bvtwqkkn5OinGD2yagl8W3M94JZrK0kg+xiy+yuZWQxBtwG4vv4YAj5uMAdOKdL4uluZrl7zS9OuI7gQZgZZERPJQom0I4PQngkiuGX1yUbW7dVfdeivv5bbm69krsdbxaTod3c2HiXT5Lq6gucFoZDtKBHBAIYdWMbA46A/Q5EWn+bpFxf/a7VPIkSP7O8uJpN2fmVccgY5PbIpl/fT6lqE97dsGmncu5AwMn0HYe1aFvqOm2/hK8sWtRPqF1NGyzPAo+zKpJOx8ljuzgjAHHU120qcopyk/edr66X62XQxnJN2Wyv/TMeiiityAooooAKKKKAP/Z)This function is called only when an arithmetic expression is on the RHS of the assign operator.  
For a parameter, it takes the expression in the postfix form.

**Ex: int z = 2 \* ( 2 + x ) + 7 🡪   
 int z = 2 2 x + \* 7 +  
Note: elements MUST be separated by spaces.**

First, we store the elements of the postfix expression in an array.  
Then we loop on the array entries.

1. if the element is an arithmetic operator (+, -, \*, /, %) we print the suitable bytecode for it for example: iadd, fsub, imul .. etc.
2. if the element is a digit, pass it to the method (handleNum) which will also print its bytecode ex: iconst\_2
3. Lastly, if the element is a variable, we send it to the method (numOrVariable) to get its index in the symbol table, then print the bytecode.   
   ex: iload\_1

Now, after we processed the postfix expression we need to know where to store it.   
we have two possibilities; either store it in a previously declared variable or store it in a new variable ex: **x = 2+1** or **int x = 2+1**

If the variable was declared before we send it to the method (numOrVariable) to get its index, then print the bytecode. Ex: istore\_3. Else we declare it then repeat the same steps.

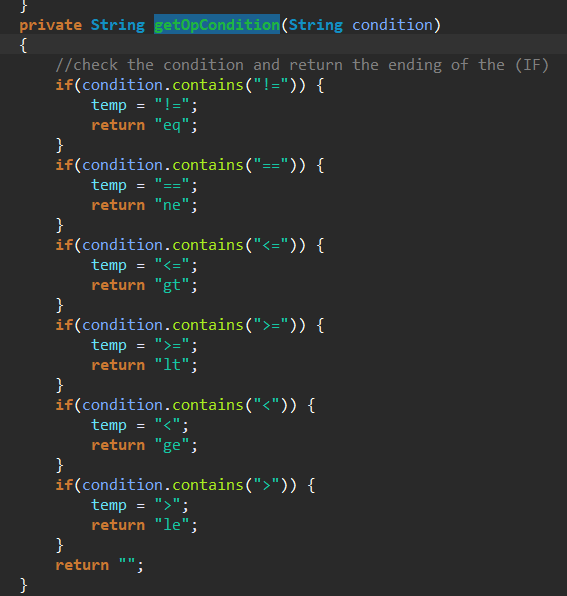
**3) If Condition, else:**

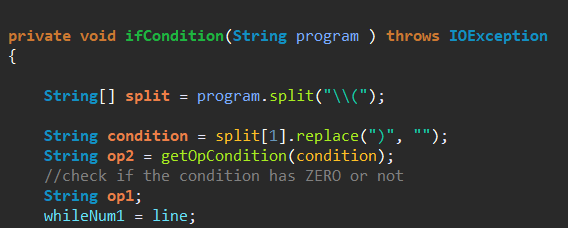
There are two variables used

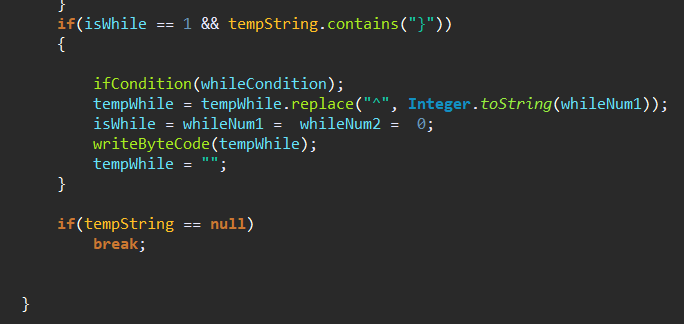
1. Int **dontWrite** 2) String **writeTemp**

**dontWrite** will be set to 1 when the program starts an if condition and is set to 0 when the if conditions finishes (when it finds ‘}’ )  
**writeTemp** is used to store the bytecode of the if till it finishes , this is used to ensure back tracing where we set the number that should point to the end of the if with (~) then replace it when we finish reading the if condition.  
If there is an **else** the bytecode go to ~ also has the (~) symbol till we reach the   
end of this condition.  
The following figure shows the function that handles the if , in bytecode the standard if is used in two ways; either to compare with zero Or compare with number/variable.





****The bytecode mnemonics are similar but work differently, So the code first checks if the condition is compared to a zero then the (if) is the start of the mnemonic else the start is (if\_icmp).  
Then var1 is always a variable so we get the variable’s index and load it, then if we compare with something other than zero so we need to get the variable or number as we did in previously.  
This gets the ending of the bytecode mnemonic   
Ex: ifeq, if\_icmpeq, Ifne, if\_icmpne

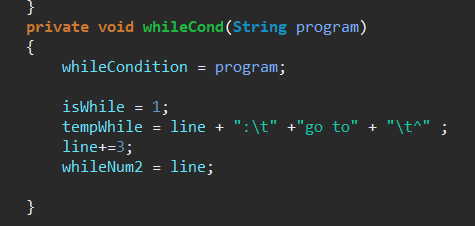


**Handling the back patching in if condition:**

When dontWrite is equal to 1 it means that there was an if condition or else so we need to check first the next line to be read if there is an (else) so the (~) should be replaced by the line number after the (go to ) statement

Which is: t=line+3  
Else it is replaced by the current line that will be written.

**3)While:**



Three variables are used for the while:

**String tempWhile; 🡪 used to store the bytecode that is inside the while loop till it reaches the ( } ) character.**

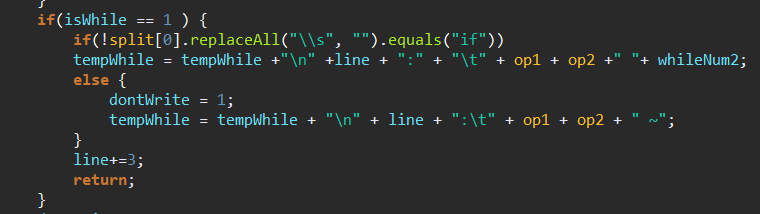
**Int isWhile; 🡪** used as a flag to help in writing the bytecode in the **tempWhile**   
string other than the file.

**Int whileNum1, whileNum2; 🡪**Two numbers are used in the back tracing both will be substituted at the **end.**

**Back patching in while:**

The int whileNum1 is going to be the line before writing the if condition of the while loop i.e.: in bytecode the while loop’s bytecode ends with its condition.

Ex:  
While(x != 0) 🡪 the (x != 0) will be considered an if statement and the number it follows is the **beginning** of the while loop.—whileNum2 --

****

**handleboolean( ):**

![A close up of text on a black background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEphcnZpcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzIxAACSkgACAAAAAzIxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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input line is sent here if itcontains the boolean operators (&&, !, or) – **we replaced the java || expression with (or) to avoid misleading the lexer** – and processed as follows.

1. **![A close up of text on a black background

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the input line contains (&&), we break the statement to small if condition statements.   
   Ex: if( x>0 && x<6 ) 🡪   
   if(x>0) , if(x<6)  
   then we pass it to the ifCondition method.

**Figure 12 and**

1. If the input line contains (or) we do the exact same steps done above but with a small adjustment, before sending the if statement we reverse the relop epression. Ex: if(x>0) 🡪 if(x<0)  
   If we have multiple statements, we reverse all of them except for the last one.

**Figure 13 or**

1. Not is also the same.

**Our compiler supports limited Boolean expressions Ex:**

* **It doesn’t support mixed Boolean expressions yet. Ex: if( x<0 && x==4 or x>9 …. ).**

**Conclusion:**

* A compiler is a computer program which helps you transform source code written in a high-level language into low-level machine language
* Correctness, speed of compilation, preserve the correct meaning of the code are some important features of compiler design
* Steps for Language processing system are: Preprocessor, Interpreter, Assembler, Linker/Loader
* Important compiler construction tools are
* 1) Scanner generators.
* 2) Syntax.
* 3) directed translation engines.
* 4) Parser generators.
* 5) Automatic code generators.

**CFG:**

**![A close up of text on a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEphcnZpcwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzk1AACSkgACAAAAAzk1AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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8Ah3ZOQQRmvXq0kraf13/UiLuijYaLYaZfaheWNv5U+pTCe6fex8xwoQHBOB8qgYGBxRpGi2GhWsltpVv5EMs8lw672bMkjFnbLE9SScdPSoNJvru61XWIbq60yaK1uVjgjs5C0sSmNSVnB+6+SSAP4StZg8Q6nb+E73UmXTNWuoLuSKOPTHnkjKCXaFbyo5X8xR94BCAwPQcif8vw0/4BVvz/AB1OoorB8J6/feILGebUdM/s545NiptuV3DGc/6Rbwt+QI9+1Xdd0S18Q6X9gvzIIfOhmzGQG3RyLIvJB4yoB9s9KOobiX/h/TNT+3/brbzf7RtBZ3X7xh5kI34Xg8f6x+Rg89eBVWfwdodzq/8AaU1pIZy6SOguZRDK6Y2O8Iby3YYXDMpI2rz8oxzfxC8car4YnnOiRQ3SafZC9voXtVbYhYhcytcx7d2xgNqSEYzjkAyah4s8QW+s3skC6aNKstWstPaJ4ZDPKJ1gywcOFUqZsj5W3Dj5cZLjdtW/rW35jd+v9aL9LHUt4d05vEA1pVuY73aFcxXk0ccuAQN8SsEcgE4LKT09BWnXmMmt6hrnjLwtdXFzp8VidcvYLaxSFvtA8mC4jLtIZMHkZKhBjco3Hv3un6Ja6ZqmqX9uZDNqkyTThiNoZY1jG0AcDCA855JpdBPR2/rqv0JtU0u01nTJtP1BHkt5gA6pK0bcEEEMpDAggHIINULbwnpVt9lyL25NpcG5gN7qNxc7JCu3d+9ds4HQHgEkjBOarePpLmLwPfmxkkjnPlIjR3DwNzKox5ifMmc4yORmuc1mDVfDPgtLyATW+swX6PY2Sa3dait87YXyGaYKxDLu4xhCN+eDSuk/u/MdrnY6f4Z0nSrpbiwtWikQzlP3zsqec6vIFUkhQWRTgDA5xjJyuo+GtI1Zr46jZrP/AGhaCyudztiSEFiFwDxguxyMHnrwK82E9zqUHhllfxFrrahY313dRadqj2Lrcb4AQQZ4wqRlmQJk7fQnJqj4mvNe0m4EesXmqtf2WhWTPf2WoPHaWVw08qtPPGrL5icLu/duCFOQoqrbJ+n5/wCX4h05l6/iv+HPT28IaUdWXUlOoRXI8vcYtUuY0k8sALvRZAr8AA7gc980sfhDSY9WGpML6e5V2kj+1alczpEzAgskbyFUOCQCoBAJAwK5z7FqmpfEq/kjWS4s7OW1+b/hILu1WIeWGO23jUxy564YjPQ8Utut5oPjSP8A4SNr+5l1W8li06/g1KVrdcq7rHJaFlRCqLgMquDt3MVJpLX8f6+Yun3f18jfs/Bmj2M0s0X9oSzyQNB59zqlzPJGjfeEbySM0ecDJQg8D0FR2vgTQbTS7vTo4byS1u38yVLjUrmbD7i+9C8hMb7yW3IQd2DnIBrC8NwT6brR0DxR/acmrahaSv8A2hHq88tvdIpUO6JvH2aTLg4RFC5wrms62ik07wjJ5Wqaogv/ABA+m3F3Pqc8zwW4vJIlCNI7eWSoVNy4PzA5yAQ+3n/nb8/+GG9E3/W1/wAkdvZeEtF097eS3tZGmt52uEnmuZZZWkZDGWd3Ys52HaNxOBgDGBVrRtD07w/YtZ6PbC2t2leYxhmYBnOWxknAyeg4HQACvMdTm1ax8XR6LoOqahLb2WprJCkt7JKzt9jkla2d2Ys6kqpwxOPM4xgY7T4f6sdc0O9v1uZbiGXUrkwNKxJEfmHavPQAcY7Ulq/l/l/XyJen3/5/18zqaKKKBhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAYPhm3huvDHlXMMc0Zu7klJFDKcXLkcH3ANbUFvDax+XbQxwoWZ9sahRuYkscDuSST6k1514kku0+DOpJYC+Ms811BmxMIcB7iRefN42kkA7fm54x1F34VR339m6vc351XM+pTbf7SFpklGMZI+z9/kAOeMr8vHJFq3/XYHokduLaAXZuhBGLhkEZm2DeUBJC564ySce9VF8P6MtvdQLpNiIbxStzGLZNs4JZiHGMMCXY892Pqa5PxodAPi+wXx4bH+wfsMptxqe37Mbreuc7/lMmzO3PON+O9ecapZXclq91qGjx3TWXh+1c311k3umQfarjbPErLuMixgMQXQ/L36ULVL+u/wDl+o7b/L9P8/0Pb4fDGgW+sf2tBoemxaljH2xLSMTY27fvgbvu8denFalMhkjmt45YZBJG6hkcHIYEcHNYttf7/Hl/Yf215vlWMMv9lfZdvkbnceb5v8W7GNvbbnvT1vYlbXNaCxtLWe4mtbWGGW6cSTyRxhWlYAAMxH3jgAZPYUWljaafE0Vhaw2sbyNIyQxhAzscsxA7kkknuawLTU7qafxSmnat/al3ZzBIbP7EF+xv5KsIslkEuSd2S6/exuGKTwlfeK7ue5Hiqx+yxqqmE/YooNxyc8peT57dQv1NJfoN/qdFc3MFlay3N5PHb28KF5JZXCoigZJJPAA9akR1kjV42DowBVlOQR6ioNQsLbVNNudPv4/NtbqJoZo9xXejAhhkYIyCelcl4u1f+yNU07TrjxAPCuktayMNRAhG+VCoSHdMrIPlLNjG5tvBGDlX/r7xnR6j4c0TWLqO51bR9Pvp4kKRy3VqkrIp6qCwJAOTx706aHRheCzuI7H7TduLkQOqb5mi2Yk2nlimI/m7YXpxXH2F14m8STWNs2t3GiSvoyXUht7KLc0xdlDFZkbapAyU4PTkc57NtLtptRs9Ruo1lvrOJ4ophldofbvwucc7F65xjr1pr/P82vzQr6/12TI4/D2jQ6pJqcWkWCX8jiR7tbZBK7BSoYvjJOGYZz0JHetGivGvBMfg6LQdRl1e+8Hzq1jML+3tLFEvljL/ADCaQSsz84GNiksV74FK9tPJj3PXr2xtNSspbPUbWG7tZhtkgnjDo49Cp4NUtP8ADGgaSIhpWh6bZCGRpYvs1pHHsdl2sw2gYJUAEjqOK8gjhup/Dep2fiq1F54kafTFht9Udf32nm6iESMQrYBbcJTtb589RtFamteEbjTrHSbWbQ9DmjvvEQlh0BZD9ghAtJRtDGI9Spc4iA3Hp1Y1br/XT/P70C1X3/gr/wBeWp6pb6RptncNcWmn2sEzNI7SRQqrFpCC5JAzliqknvtGelOn02xuWna5sreY3MP2ecyRK3mxc/I2RyvzNwePmPrXiz/2TceF/CUOr3eg2MUE1/FNF4jtFmtrSVX5twjSoBs+4p3fdUEDBrW8WP4b02XT9Te88Ja21vpkQttBuhGolUZKPYrl/LL8AKFfftRdwxmlpe3y/D+v+GFr0/rX+v8Ahz0Wbwl4cuNRh1Cfw/pct7b7PJuXsozJHs+5tYjI24GMdO1LaeFPD1hqUuoWOg6ZbXs27zbmGzjSSTcctuYDJyeuetcDq13ounfEJNSLaFr2p3NzbINLumRtU01jsXMH3jtUEyGPamMu2/tUkZ8Ij4r68dC/4R//AISH+zU+y+UIPP8Atm6583GPm8zG3f3xjPFJ6Rv6jSvt5fnb8DuLHwj4b0uG5i0zw9pVnHdx+VcJb2UcYmTn5XAUbhyeD60WfhDw1p1pdWun+HtKtbe9TZdQwWUaJOvPDqFww5PB9TXjurJoEnhD/ilRA962iXQ8QmLmUsYhxd9/N83ON/zf6zHeu48ItJb/ABHv9KnD+ZpmkQ26M/8Ay0i82QxMD3+QhSf7ytVNe9y+v4Xf9fPsTfS/9dP8zs7PQtI063toNP0uytYbR2e3jgt0RYWYEMUAGFJDHJHXJ9asWljaafE0Vhaw2sbyNIyQxhAzscsxA7kkknuanopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMXwl/wAi8P8Ar6uv/SiStqsXwl/yLw/6+rr/ANKJK2qACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)Our context free grammar after editing it to support more Java expressions:**

**Sample Runs:**

**We added a simple GUI to make it user friendly.**

1. **Primitive types with operations on them.**

**A screenshot of a cell phone

Description automatically generated**

1. **Boolean Expressions**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a cell phone

Description automatically generated**

1. **Arithmetic Expressions**

**A screenshot of a cell phone

Description automatically generated**

1. **If-else**

**A screenshot of a cell phone

Description automatically generated**

1. **While loop**

**A screenshot of a cell phone

Description automatically generated**

1. **For loop**

**A screenshot of a cell phone

Description automatically generated**

Role of each student:

Phase One:

* NFA (Mayar)
* DFA (Zahraa)

Phase Two:

* Parse table, left factoring & left recursion (Mayar)
* Stack tracing and error recovery (Zahraa)

Phase Three:

* Declaration, while, if, assignment statements (Mayar)
* Boolean and Arithmetic expressions, For loop, GUI and error handling (Zahraa)