REGEX

IDENTIFIER\_REGEX = "[a-z]+[0-9]{0,1}";

* One or more a-z (lowercase)letters, followed by 0 or 1 digits

INTEGER\_REGEX = "0|(?!0)[+-]{0,1}[1-9]+[0-9]\*"

* 0 or
* Something not starting with 0 followed by
* + or -, 0 or 1 times followed by
* 1-9 digit 1 or more times followed by
* 0-9 digit 0 or more times

CHARACTER\_REGEX = "'[a-z]{1}'|'[0-9]{1}'"

* ‘ followed by
* 1 a-z character (lowercase) followed by
* ‘ or
* ‘ followed by
* One 0-9 digit followed by
* ‘

STRING\_REGEX = "**\"**[a**-**z0**-**9A**-**Z]\***\"**"

* “ followed by
* 0 or more a-z character (upper or lowercase) or 0-9 digit 0 or more times

FLOAT\_REGEX = "[+-]?([0-9]\*[.])?[0-9]+"

* + or – 0 or 1 times followed by
* 0 or more 0-9 digits followed by . 0 or 1 times followed by
* 1 or more 0-9 digits

BUL\_REGEX = "true|false"

* true or false

SYMBOL TABLE

* uses hash table
* hash function uses sum of ascii characters in the constant or identifier
* collision handling -> separate chaining (using ArrayList)

PIF

* ArrayList of Pairs
* Pair contains String (token) and Integer (position)