https://github.com/Natan-Gabriel/FLCD

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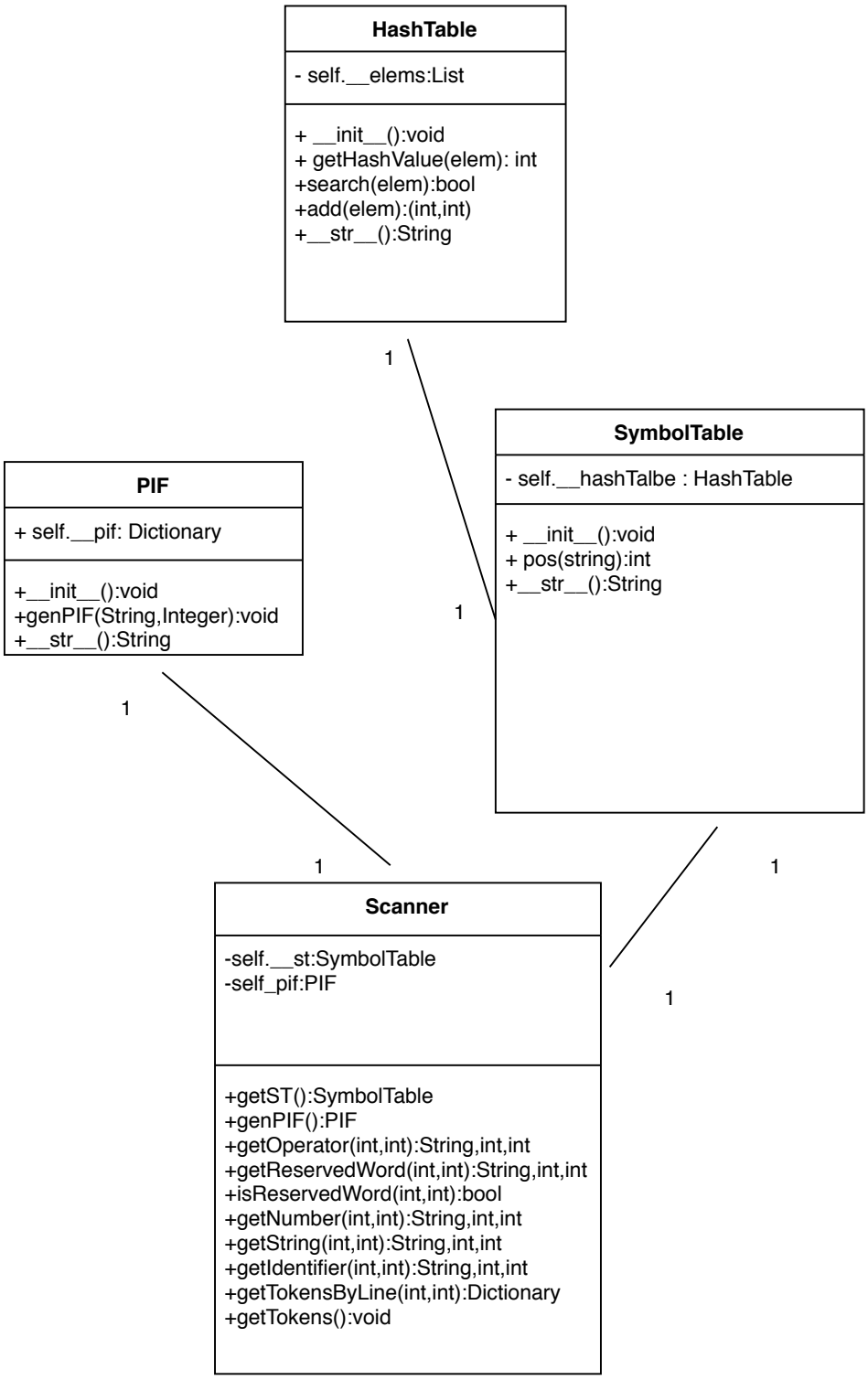
HashTable
- self.__elems:List
+ __init__():void
+ getHashValue(elem): int
+search(elem):bool
+add(elem):(int,int)
+__str__():String
1
1
SymbolTable
- self.__hashTalbe : HashTable
+ __init__():void
+ pos(string):int
+__str__():String
PIF
+ self.__pif: Dictionary
+__init__():void
+genPIF(String,Integer):void
+__str__():String
1
1
1
1
Scanner
-self.__st:SymbolTable
-self_pif:PIF
+getST():SymbolTable
+genPIF():PIF
+getOperator(int,int):String,int,int
+getReservedWord(int,int):String,int,int
+isReservedWord(int,int):bool
+getNumber(int,int):String,int,int
+getString(int,int):String,int,int
+getIdentifier(int,int):String,int,int
+getTokensByLine(int,int):Dictionary
+getTokens():void

```
def containsLetters(s):
    return not re.search(r'[^a-zA-Z]', s)
```

--if s have just upper case letters and lower case letters the return true-first letter of identifier

```
def containsLettersOrDigits(s):
    return not re.search(r'[^a-zA-Z0-9]', s)
```

--if s contains just upper case letters ,lower case letters and digits the return true-letters of identifiers except first letter