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sh-soltanpour / **compilerPhase2**

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tinayz committed Dec 5, 2017

1 parent 52e40e8   commit 5512b0eb809d0f4985da9cdbac45ced61f7d39ed

⊞ Showing **4 changed files** with **52 additions** and **21 deletions**.

Unified | Split

∨ 3 ▮▮▮▯▯ ArrayType.java

...

```
@@ -15,13 +15,12 @@ public boolean equals(Object other) {
15   15
16   16        @Override
17   17        public String toString() {
18      -        return "Array of" + type.toString();
     18   +        return "Arrayof " + type.toString();
19   19            }
20   20        public Type getType(){
21   21            return type;
22   22        }
23   23
24      -    private static ArrayType instance;
25   24
26   25        Type type;
27   26        int width;
```

∨ 49 ▮▮▮▮▯ Atalk.g4

...

```
@@ -11,26 +11,31 @@ grammar Atalk;
11   11            SymbolTable.top.setOffset(Register.SP, offset);
12   12        }
13   13        void endScope(){
14      -        print("Stack offset: " + SymbolTable.top.getOffset(Register.SP));
15      -        SymbolTable.pop();
```

```
   14  +     SymbolTable.pop();
16  15       }
17  16     }
18  17     program:
19        -    {beginScope();}(actor | NL)*{endScope();}
     18  +    {beginScope();}(actor | NL)*{endScope(); if(Tools.codeIsValid)Tools.printMessages();}
     19  +
20  20      ;
21  21
22  22     actor:
23  23       'actor' name=ID '<' mailboxSize=CONST_NUM '>' NL
24  24       {
25  25         int mailboxSize = Integer.parseInt($mailboxSize.text);
26  26         if (mailboxSize <= 0){
27        -       print("Actore kamtar az 0");
     27  +       print("line "+ String.valueOf($name.getLine())+"Actore kamtar az 0");
28  28         mailboxSize = 0;
     29  +       Tools.codeIsValid = false;
29  30         }
30  31         boolean error;
31  32         error = Tools.putActor($name.text, mailboxSize);
32  33         if (error){
33        -       print("actor darim:)");
     34  +       Tools.codeIsValid = false;
     35  +       print("line "+ String.valueOf($name.getLine())+"actor darim:)");
     36  +       }
     37  +     else {
     38  +       Tools.messages.add("actor:"+$name.text + " with mailboxSize:"+$mailboxSize.text);
34  39         }
35  40         beginScope();
36  41       }
```

@@ -43,9 +48,9 @@ state:

```
43  48       {
44  49         boolean error = Tools.putGlobalVar($name.text,$type.return_type);
45  50         if (error){
46        -       print("global darim:P");
     51  +       Tools.codeIsValid = false;
     52  +       print("line "+ String.valueOf($name.getLine())+"global darim:P");
47  53         }
48        -
49  54       }
50  55     ;
51  56
```

@@ -57,7 +62,15 @@ receiver:

```
57  62       {boolean error;
58  63       error = Tools.putReceiver($name.text,arguments);
59  64         if (error){
60        -       print("receiver ham darim:D");
     65  +       Tools.codeIsValid = false;
     66  +       print("line "+ String.valueOf($name.getLine())+"receiver ham darim:D");
     67  +       }
     68  +     else {
     69  +       String message = "Receiver Name : " + $name.text + " argumentTypes :";
     70  +       for (int i = 0; i < arguments.size(); i++){
     71  +         message += arguments.get(i).toString() + ",";
     72  +       }
     73  +       Tools.messages.add(message);
61  74       }
62  75       beginScope();
63  76     }
```

@@ -71,17 +84,20 @@ type returns [Type return_type]:

```
71  84       'char' {$return_type = CharType.getInstance();} ('[' size=CONST_NUM{
72  85         int size = Integer.parseInt($size.text);
73  86         if(size <= 0){
74        -       print("araye kochiktar az 0 eh:|");
     87  +       Tools.codeIsValid = false;
     88  +       print("line "+ String.valueOf($size.getLine())+"araye kochiktar az 0 eh:|");
```

```
75    89        size = 0;
76    90      }
77    91      $return_type= new ArrayType($return_type,size);} ']')*
78    92    | 'int'  {$return_type = IntType.getInstance();}  ('[' size=CONST_NUM {
79    93      int size = Integer.parseInt($size.text);
80    94      if(size <= 0){
81        -      print("araye kochiktar az 0 eh:|");
      95  +      Tools.codeIsValid = false;
      96  +      print("line "+ String.valueOf($size.getLine())+"araye kochiktar az 0 eh:|");
82    97      size = 0;
83    98      }
84        -    } ']')*
      99  +      $return_type= new ArrayType($return_type,size);}
     100  +      ']')*
85    101      ;
86    102
87    103    block[boolean foreach]:
```
@@ -114,7 +130,8 @@ stm_vardef:
```
114   130    {for(int i = 0 ; i < names.size() ; i++){
115   131    boolean error = Tools.putLocalVar(names.get(i),$type.return_type );
116   132    if(error){
117       -    print("Localam darim:|");
     133  +    Tools.codeIsValid = false;
     134  +    print("line "+ String.valueOf($name.getLine())+"Localam darim:|");
118   135    }
119   136    }
120   137    }
```
@@ -148,9 +165,11 @@ stm_quit:
```
148   165    ;
149   166
150   167    stm_break[boolean foreach]:
151       -  'break' NL{
     168  +  'break' newline = NL{
152   169    if(!$foreach){
153       -    print("break biroone X(");
     170  +    Tools.codeIsValid = false;
     171  +    int line = $newline.getLine();
     172  +    print("line "+ String.valueOf(line)+":break biroone X(");
154   173    }
155   174
156   175    }
```
@@ -260,7 +279,7 @@ CONST_STR:
```
260   279    ;
261   280
262   281    NL:
263       -  '\r'? '\n' { setText("new_line"); }
     282  +  '\r'? '\n' { setText("new_line");}
264   283    ;
265   284
266   285    ID:
```

11 ◼◼◼◼▢ SymbolTable.java

...

```
@@ -54,10 +54,17 @@ public void put(SymbolTableItem item) throws ItemAlreadyExistsException {

 54    54
 55    55          if(item instanceof SymbolTableVariableItemBase) {
 56    56              SymbolTableVariableItemBase castedItem = (SymbolTableVariableItemBase) item;
       57    +         int oldOffset = getOffset(castedItem.getBaseRegister());
       58    +         int newOffset = getOffset(castedItem.getBaseRegister()) + castedItem.getSize();
 57    59              setOffset(
 58    -              castedItem.getBaseRegister(),
 59    -              getOffset(castedItem.getBaseRegister()) + castedItem.getSize()
       60    +          castedItem.getBaseRegister(),newOffset
 60    61              );
       62    +
       63    +         Variable variable = castedItem.getVariable();
       64    +         String name = variable.getName();
       65    +         String type = variable.getType().toString();
       66    +         Tools.messages.add("variable name: "+name +" with type: " + type +" offset: " + String.valueOf(oldOffset)
       67    +          + ", size: " + String.valueOf(variable.getType().size()));
 61    68          }
 62    69      }
 63    70
```

10 ■■■■■ Tools.java

```
@@ -1,7 +1,13 @@

 1    - import java.util.*;
      1    + import java.util.ArrayList;
 2    2
 3    3      public class Tools {
 4    -
      4    +    static ArrayList<String> messages = new ArrayList<String> ();
      5    +    static boolean codeIsValid = true;
      6    +    static public void printMessages(){
      7    +    for(int i = 0 ; i < messages.size() ; i++){
      8    +     System.out.println(messages.get(i));
      9    +    }
     10    +  }
 5    11        static public boolean putActor(String name, int mailboxSize )  {
 6    12          boolean error = false;
 7    13          try {
```

0 comments on commit `5512b0e`

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