

```
40
               {
41
                Tools.putActor($name.text,Integer.parseInt($mailboxSize.text));
43
               catch(ItemAlreadyExistsException e) {
                        print("Exists");
               finally{beginScope(); }
      24 + {
             boolean error;
      26 +
             error = Tools.putActor($name.text, Integer.parseInt($mailboxSize.text));
      27 + if (error){
      28 + print("actor darim:)");
48
      29
      30 + beginScope();
      31 + }
49
               (state | receiver | NL)*
              'end' (NL | EOF)
             {endScope();}
      34
      35
           ;
           state:
54
             type name = ID (',' ID)* NL
          - try{
               putGlobalVar($name.text,$type.return_type);
      39 +
              boolean error = Tools.putGlobalVar($name.text,$type.return_type);
              if (error){
            print("global darim:P");
               catch(ItemAlreadyExistsException e) {
                        print("Exists");
           }
      45
      46
      47
- 'receiver' ID '(' (type ID (',' type ID)*)? ')' NL
      48 + {
      49 +
             ArrayList<Type> arguments = new ArrayList<Type>();
      50 +
      51 +
              'receiver' name = ID '(' ( type ID {arguments.add($type.return_type);}(',' type ID{arguments.add($type.return_type)
              {boolean error;
          + error = Tools.putReceiver($name.text,arguments);
          + if (error){
              print("receiver ham darim:D");
      56 + }
      57 + beginScope();
    58 + }
              statements
      60
              'end' NL
     61 + {endScope();}
      64
      65
            type returns [Type return_type]:
 ΣĮZ
          @@ -96,9 +90,20 @@ statement:
  Σ†ζ
      90
97
      91
      92
            stm_vardef:
          - type ID ('=' expr)? (',' ID ('=' expr)?)* NL
      93 + {
      94 + ArrayList<String> names = new ArrayList<String>();
      95 + }
      96 + type name = ID{names.add($name.text);} ('=' expr)? (',' name2 = ID{names.add($name2.text);} ('=' expr)?)* NL
      97 + {for(int i = 0 ; i < names.size() ; i++){
      98 + hoolean error = Tools nutlocalVar/names met(i) $twne return twne ):
```

```
DOOTEGIL ELLOL - LOOTS PALFOCATAGI (Hames Aer(T) Actabe Lectril Table )
      99 + if(error){
              print("Localam darim:|");
      100
          + }
      102 + }
     103 + }
    104
     106 +
           stm_tell:
    108
             (ID | 'sender' | 'self') '<<' ID '(' (expr (', ' expr)*)? ')' NL
  ΣĮZ

✓ 3 Receiver.java

Ŕ
... @@ -1,4 +1,5 @@
1 - public class Actor {
      1 + import java.util.*;
        2 + public class Receiver {
           public Receiver(String name, ArrayList<Type> argumentTypes) {
               this.name = name;
       5
               this.argumentTypes = argumentTypes;

▼ 10 SymbolTableReceiverItem.java

Ê
... 0@ -1,3 +1,5 @@
1 + import java.util.ArrayList;
           public class SymbolTableReceiverItem extends SymbolTableItem {
  1
            public SymbolTableReceiverItem(Receiver receiver, int offset) {
  2
  3
               this.receiver = receiver;
   ②@ -6,7 +8,13 @@ public SymbolTableReceiverItem(Receiver receiver, int offset) {
  6
       8
       9
              @Override
     10
  8
              public String getKey() {
  9 -
               return receiver.getName();
     11 +
              ArrayList <Type> argumentTypes = receiver.getArgumentTypes();
               String name = receiver.getName();
       13 +
              String key = name+'#';
       14 +
              for(int i = 0 ; i < argumentTypes.size(); i++){</pre>
       15 +
                key += argumentTypes.get(i).toString();
       16 + }
      17 + return key;
 10
       18
            }
       19
      public int getOffset() {
   ΣIX

▼ 57 ■■■■ Tools.java
È
```

```
... @@ -1,7 +1,58 @@
1 + import java.util.*;
        3
             public class Tools {
        4
 3
           - static public void putActor(String name, int mailboxSize) throws ItemAlreadyExistsException {
                SymbolTable.top.put(new SymbolTableActorItem(new Actor(name, mailboxSize), SymbolTable.top.getOffset(Register.GP)))
              static public boolean putActor(String name, int mailboxSize ) {
        6
               boolean error = false;
               try {
        8
                SymbolTable.top.put(new SymbolTableActorItem(new Actor(name, mailboxSize), SymbolTable.top.getOffset(Register.GP)
        9 +
              } catch (ItemAlreadyExistsException e) {
       10 +
                error = true;
       11 +
                 Tools.putActor(name+"_temp_", mailboxSize);
               }
       12 +
       13 +
                return error;
       14 + }
           + static public boolean putReceiver(String name, ArrayList <Type> arguments) {
               boolean error = false;
               try {
       19 +
                SymbolTable.top.put(new SymbolTableReceiverItem(new Receiver(name, arguments), SymbolTable.top.getOffset(Register
       20 +
                 catch (ItemAlreadyExistsException e) {
       21 +
                 error = true;
       22 +
                 Tools.putReceiver(name+"_temp_", arguments);
              }
       23 +
       24 +
               return error;
           + static public boolean putLocalVar(String name, Type type){
                boolean error = false;
                try{
                SymbolTable.top.put(
                       new SymbolTableLocalVariableItem(
                             new Variable(name, type),
                             SymbolTable.top.getOffset(Register.SP)
       33 +
       34 +
                      );
       35 +
               }
       36 +
                catch (ItemAlreadyExistsException e) {
                 error = true;
                  Tools.putLocalVar(name+"_temp_", type);
               }
                return error;
       41
       + static public boolean putGlobalVar(String name, Type type){
       43 +
               boolean error = false;
       44 +
              SymbolTable.top.put(
       45 +
       46 +
                   new SymbolTableGlobalVariableItem(
       47 +
                      new Variable(name, type),
       48 +
                        SymbolTable.top.getOffset(Register.GP)
       49 +
       50 +
               }
               catch (ItemAlreadyExistsException e) {
                  error = true;
       54
                 Tools.putGlobalVar(name+"_temp_", type);
       55 +
               }
       56 + return error;
       57
               }
             } ∅₩
```

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