

Expressions.sdf Classes.sdf3 8

```

1 module Classes
2
3 imports Expressions
4
5 sorts Class Field Method Param
6
7 context-free syntax
8
9 Class.Class = [
10     class [ClassName] [Extends] {
11         [{Field "\n"}*]
12         [{Method "\n\n"}*]
13     }
14 ]
15
16 Extends.NoExtends = []
17 Extends.Extends = [extends [ClassName]]
18
19 Field.Field = [[Type] [FieldName]]
20
21 Method.Method = [

```

class01.la

```

1 program counter
2 class Counter {
3     Num c
4     Num next() { this.c = c + 1; c }
5 }
6 run new Counter().next()

```

class01.aterm

```

1 Program(
2     "counter"
3     , [ Class(
4         "Counter"
5         , NoExtends()
6         , [Field(NumT(), "c")]
7         , [ Method(
8             NumT()
9             , "next"
10            , []
11            , Do(
12                [ Set(This(). "c". Add(Var("c"). Num("1")))

```