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Assignment: 4

Complete & Correct:	34 / 36
Tests:	4 / 4
Format and Comments:	5 / 5
Writeup:	5 / 5
Total Score:	48 / 50

Comments:

1. (-2) failing tests (see below)

Unit test output:

```
Loading:
Loading: 0 packages loaded
Analyzing: target //:ast-parser-test (0 packages loaded, 0 targets configured)
INFO: Analyzed target //:ast-parser-test (2 packages loaded, 134 targets configured).
INFO: Found 1 test target...
[0 / 7] [Prepa] BazelWorkspaceStatusAction stable-status.txt
INFO: From Testing //:ast-parser-test:
==================== Test output for //:ast-parser-test:
JUnit4 Test Runner
...........
Time: 0.019

OK (11 tests)


BazelTestRunner exiting with a return value of 0
JVM shutdown hooks (if any) will run now.
The JVM will exit once they complete.

-- JVM shutdown starting at 2022-03-07 22:41:10 --

================================================================================
Target //:ast-parser-test up-to-date:
  bazel-bin/ast-parser-test.jar
  bazel-bin/ast-parser-test
INFO: Elapsed time: 0.664s, Critical Path: 0.33s
INFO: 4 processes: 3 internal, 1 linux-sandbox.
INFO: Build completed successfully, 4 total actions
//:ast-parser-test                                                      PASSED in 0.3s

Executed 1 out of 1 test: 1 test passes.
There were tests whose specified size is too big. Use the --test_verbose_timeout_warnings command line option to see
     which ones these are.
INFO: Build completed successfully, 4 total actions
```

Program test output:

```
>>> DIFF TEST 1: "type T {}"

>>> DIFF TEST 2: "type T1 {var int x = 0 var y=true}"

>>> DIFF TEST 3: "type T1 {var x = 0 var y=0} type T2 {var y = 0}"
```

```
>>> DIFF TEST 4: "fun int f( ){}"

>>> DIFF TEST 5: "fun int f(){} fun void main() { }"

>>> DIFF TEST 6: "fun int f(){return }"
2,4c2
<   return
< }
<
---
>   return
\ No newline at end of file

>>> DIFF TEST 7: "fun int f(){return x}"

>>> DIFF TEST 8: "fun int f(){var x = 0}"

>>> DIFF TEST 9: "fun int f(){var x=0 var bool y=true}"

>>> DIFF TEST 10: "fun int f(int x){}"

>>> DIFF TEST 11: "fun int f(int x,bool y){}"

>>> DIFF TEST 12: "fun int f(A x,B y, T z){}"

>>> DIFF TEST 13: "type T {var x=3+4}"

>>> DIFF TEST 14: "fun int f(int x){x=3*4+1}"

>>> DIFF TEST 15: "fun int f(A x,B y){x=y*x+true-0/0}"

>>> DIFF TEST 16: "fun int f(){x=not y}"

>>> DIFF TEST 17: "fun int f(){x=not y and x or not z}"

>>> DIFF TEST 18: "fun int f(){x=(y * x)+1}"

>>> DIFF TEST 19: "fun int f(){x=(y * (x-y))+(1+2/2)}"

>>> DIFF TEST 20: "fun int f(){x=(y * (x-y))+(1+not 2/2)}"

>>> DIFF TEST 21: "fun int f(){x=neg x + 5 + neg x + 1}"

>>> DIFF TEST 22: "fun int f(){g()}"

>>> DIFF TEST 23: "type T {var x=g ( 10 )}"

>>> DIFF TEST 24: "fun int f() {x=g (true,false)}"

>>> DIFF TEST 25: "fun int f() {x=g(f(),x+y,g(h() + x))}"

>>> DIFF TEST 26: "fun int f() {while true {var x = 0}}"

>>> DIFF TEST 27: "fun int f() {while x <= z {while true {}}}"

>>> DIFF TEST 28: "fun int f() {for x from 0 upto f(x) {var x = 0 x = x + 1}}"

>>> DIFF TEST 29: "fun int f() {for x from g(n) downto 0 {print("foo")}}"
3c3
<     print("foo")
---
>     print(foo)

>>> DIFF TEST 30: "fun int f() {if true {print(true)} elif false {print(false)} else {}}"

>>> DIFF TEST 31: "fun int f() {if x<y {if y>x-1 {f() g()}else{if x {}}}else {g() h()}}"

>>> DIFF TEST 32: "fun int f() {x . y = x.y.z}"

>>> DIFF TEST 33: "fun int f() {f(x.y .z) x = y.z.v / 2 y.z = v(b.z)+y.z}"
```

```
>>> DIFF TEST 34: diff ../print-1.out <(bazel-bin/mypl --print ../print-1.mypl) > out 2>&1

>>> DIFF TEST 35: diff ../print-2.out <(bazel-bin/mypl --print ../print-2.mypl) > out 2>&1

>>> DIFF TEST 36: diff ../print-3.out <(bazel-bin/mypl --print ../print-3.mypl) > out 2>&1


>>> Done
```