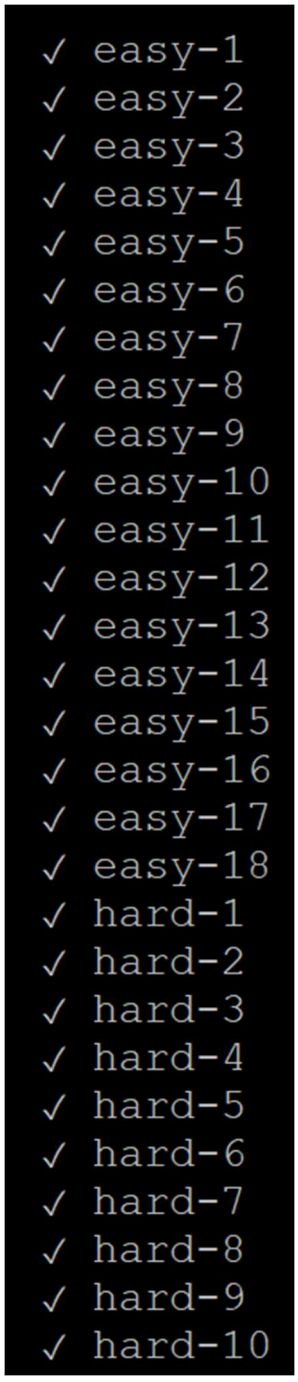
CSE210 HW2 Report

Amogh Lonkar



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```
 ✗ hard-11
   (from function `check' in file tests/harness.bash, line 6,
    in test file tests/hard.bats, line 44)
     `check 'if ( true ∨ - 1 < 0 ) then k := ( 49 ) * 3 + k else k := 2 * 2 * 2 + 3' '{k → 147}'' failed with status 2
55
   if ( true ∨ - 1 < 0 ) then k := ( 49 ) * 3 + k else k := 2 * 2 * 2 + 3 = {k → 147}, your code outputs Traceback (mo
st recent call last):
     File "while.py", line 464, in <module>
       main()
     File "while.py", line 447, in main
       interpreter = Interpreter(parser)
     File "while.py", line 432, in __init__
       self.tree = parser.parseExpr()
     File "while.py", line 361, in parseExpr
       return self.semiExpr()
     File "while.py", line 350, in semiExpr
       node = self.assignExpr()
     File "while.py", line 341, in assignExpr
       node = self.boolExpr()
     File "while.py", line 333, in boolExpr
       node = self.relationExpr()
     File "while.py", line 325, in relationExpr
       node = self.arithExpr()
     File "while.py", line 317, in arithExpr
       node = self.arithVar()
     File "while.py", line 309, in arithVar
       node = self.factor()
     File "while.py", line 245, in factor
       condition = self.boolExpr()
     File "while.py", line 333, in boolExpr
       node = self.relationExpr()
     File "while.py", line 325, in relationExpr
     File "while.py", line 325, in relationExpr
       node = self.arithExpr()
     File "while.py", line 317, in arithExpr
       node = self.arithVar()
     File "while.py", line 309, in arithVar
       node = self.factor()
     File "while.py", line 290, in factor
       node = self.boolExpr()
     File "while.py", line 337, in boolExpr
       node = arithOp(node, token.value, self.relationExpr())
     File "while.py", line 325, in relationExpr
       node = self.arithExpr()
     File "while.py", line 317, in arithExpr
       node = self.arithVar()
     File "while.py", line 309, in arithVar
       node = self.factor()
     File "while.py", line 306, in factor
       return node
   UnboundLocalError: local variable 'node' referenced before assignment
   [20516] Failed to execute script while
 ✓ hard-12
 ✓ hard-13
 ✗ hard-14
   (from function `check' in file tests/harness.bash, line 6,
    in test file tests/hard.bats, line 56)
     `check 'while z * x = -3 ∧ 3 * x = z + R do z := y * z ; y := 1 - 0' '{y → 1}'' failed
   while z * x = -3 ∧ 3 * x = z + R do z := y * z ; y := 1 - 0 = {y → 1}, your code outputs {}
 ✗ hard-15
   (from function `check' in file tests/harness.bash, line 6,
    in test file tests/hard.bats, line 60)
     `check 'if ( y * 4 < -1 - x ∧ - 1 = 0 + y) then z := ( -1 - -1 ) * -4 else z := 2 * -4 ; if ( y- -3 = y * z ∨ n *
 y < 1 * 2) then skip else if ( 1 < 0 - x ∨ true ) then x := y + -4 else y:= -4 * y' '{z → -8}'' failed with status 25
5
```

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  if ( y * 4 < -1 - x ∧ - 1 = 0 + y) then z := ( -1 - -1 ) * -4 else z := 2 * -4 ; if ( y- -3 = y * z ∨ n * y < 1 * 2
) then skip else if ( 1 < 0 - x ∨ true ) then x := y + -4 else y:= -4 * y = {z → -8}, your code outputs Traceback (mos
t recent call last):
    File "while.py", line 464, in <module>
      main()
    File "while.py", line 447, in main
      interpreter = Interpreter(parser)
    File "while.py", line 432, in __init__
      self.tree = parser.parseExpr()
    File "while.py", line 361, in parseExpr
      return self.semiExpr()
    File "while.py", line 350, in semiExpr
      node = self.assignExpr()
    File "while.py", line 341, in assignExpr
      node = self.boolExpr()
    File "while.py", line 333, in boolExpr
      node = self.relationExpr()
    File "while.py", line 325, in relationExpr
      node = self.arithExpr()
    File "while.py", line 317, in arithExpr
      node = self.arithVar()
    File "while.py", line 309, in arithVar
      node = self.factor()
    File "while.py", line 245, in factor
      condition = self.boolExpr()
    File "while.py", line 333, in boolExpr
      node = self.relationExpr()
    File "while.py", line 325, in relationExpr
      node = self.arithExpr()
    File "while.py", line 317, in arithExpr
      node = self.arithVar()
    File "while.py", line 309, in arithVar
      node = self.factor()
    File "while.py", line 306, in factor
      return node
  UnboundLocalError: local variable 'node' referenced before assignment
  [20556] Failed to execute script while
✓ hard-16
✓ hard-17
✓ hard-18
✓ medium-1
✓ medium-2
✓ medium-3
✓ medium-4
✓ medium-5
✓ medium-6
✗ medium-7
  (from function `check' in file tests/harness.bash, line 6,
   in test file tests/medium.bats, line 28)
    `check 'while false do x := 1 ; if true then y := 1 else z := 1' '{y → 1}'' failed
  while false do x := 1 ; if true then y := 1 else z := 1 = {y → 1}, your code outputs {}
✗ medium-8
  (from function `check' in file tests/harness.bash, line 6,
   in test file tests/medium.bats, line 32)
    `check 'while false do x := 1 ; y := 1' '{y → 1}'' failed
  while false do x := 1 ; y := 1 = {y → 1}, your code outputs {}
✓ medium-9
✓ medium-10
✓ medium-11
✓ medium-12
✓ medium-13
✗ medium-14
  (from function `check' in file tests/harness.bash, line 6,
   in test file tests/medium.bats, line 56)
    `check 'while false do x := 1 ; if true then y := 1 else z := 1' '{y → 1}'' failed
  while false do x := 1 ; if true then y := 1 else z := 1 = {y → 1}, your code outputs {}
```

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```
 ✓ medium-9
 ✓ medium-10
 ✓ medium-11
 ✓ medium-12
 ✓ medium-13
 ✗ medium-14
   (from function `check' in file tests/harness.bash, line 6,
    in test file tests/medium.bats, line 56)
     `check 'while false do x := 1 ; if true then y := 1 else z := 1' '{y → 1}'' failed
   while false do x := 1 ; if true then y := 1 else z := 1 = {y → 1}, your code outputs {}
 ✗ medium-15
   (from function `check' in file tests/harness.bash, line 6,
    in test file tests/medium.bats, line 60)
     `check 'while false do x := 1 ; y := 1' '{y → 1}'' failed
   while false do x := 1 ; y := 1 = {y → 1}, your code outputs {}
 ✓ own-1
 ✓ own-2
 ✓ own-3
 ✓ own-4
 ✓ own-5

56 tests, 7 failures
```