

Copied executables to /home/rishi/Documents/UCSC-Courses/CSE210A/HW/cse210A-asgtest/cse210A-asgtest-hw2-while:
- while-hs-exe

Warning: Installation path /home/rishi/Documents/UCSC-Courses/CSE210A/HW/cse210A-asgtest/cse210A-asgtest-hw2-while not found on the PATH environment variable.

✓ easy-1
✓ easy-2
✓ easy-3
✓ easy-4
✓ easy-5
✓ easy-6
✓ easy-7
✓ easy-8
✓ easy-9
✓ easy-10
✓ easy-11
✓ easy-12
✓ easy-13
✓ easy-14
✓ easy-15
✓ easy-16
✓ easy-17
✓ easy-18
✓ hard-1
✓ hard-2
✓ hard-3
✓ hard-4
✓ hard-5
✓ hard-6
✓ hard-7
hard-8
✓ hard-9
✓ hard-10
✓ hard-11
✓ hard-12
✓ hard-13
✓ hard-14
✓ hard-15
✓ hard-16
✓ hard-17
✓ hard-18
✓ medium-1
✓ medium-2
✓ medium-3
✓ medium-4
✓ medium-5
✓ medium-6
✓ medium-7
✓ medium-8
✓ medium-9
✓ medium-10
✓ medium-11
✓ medium-12
✓ medium-13
✓ medium-14
✓ medium-15

51 tests, 0 failures

```
While.hs - cse210A-asgtest - Visual Studio Code

EXPLORER
  cse210A-asgtest
    cse210A-asgtest-hw2-while
      bin
      libexec
      tests
        easy.bats
        hard.bats
        harness.bash
        medium.bats
      while-hs
      stack-work
        dist
        ghc
        install-ghc-paths
        lib
        libprof
        stack
        stack-ghc-paths
        work

OPEN EDITORS
  cse210A-asgtest-hw2-while > while.hs > src > While.hs

  While.hs
    418 Pow a1 a2 -> (evalA a1 env) ^ (evalA a2 env)
    419 ALit n          n
    420 NumVar (Var x) -> findWithDefault 0 x valMap
    421
    422 CSE210A-ASGTEST
    423
    424 evalB :: BExpr -> Env -> Int -> Bool -> Bool
    425 evalB ex env@(Environment _ valMap) = case ex of
    426   BLit b -> b
    427   BoolVar (Var x) -> findWithDefault False x valMap
    428   BEq a1 a2 -> (evalA a1 env) == (evalA a2 env)
    429   BLTE a1 a2 -> (evalA a1 env) <= (evalA a2 env)
    430   BLT a1 a2 -> (evalA a1 env) < (evalA a2 env)
    431   BNeg b -> not (evalB b env)
    432   BAnd b1 b2 -> (evalB b1 env) && (evalB b2 env)
    433   BOr b1 b2 -> (evalB b1 env) || (evalB b2 env)
    434
    435 evalS :: Stmt -> Env -> Int -> Bool -> Env -> Int -> Bool
    436 evalS s env@(Environment aVars bVars) = case s of
    437   Skip -> env
    438   Seq s1 s2 -> evalS s2 (evalS s1 env)
    439   IfStmt b s1 s2 -> if evalB b env then evalS s1 env else evalS s2 env
    440   WhileStmt b s -> if evalB b env then evalS (WhileStmt b s) env else env
    441   AAssg (Var x) a -> let arithResult = evalA a env
    442                      in Environment (insert x arithResult aVars) bVars
```