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1/27/2022 HW 2

Report

Output:

```
-bash-4.2$ ./test.sh
python3 -m py_compile while.py
✓ 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
  (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
    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 (most recent call last):
```

```

+ -8}, your code outputs Traceback (most recent call last):
  File "/afs/cats.ucsc.edu/users/l/ssalsabi/cse210a/hw2while/hw2-while/while.py", line 490, in <module>
    eval(stack) #evaluate that stack
  File "/afs/cats.ucsc.edu/users/l/ssalsabi/cse210a/hw2while/hw2-while/while.py", line 463, in eval
    if(stack[j] == '+' or stack[j] == '-' or stack[j] == '*'):
  IndexError: list index out of range
X hard-16
  (from function `check' in file tests/harness.bash, line 6,
   in test file tests/hard.bats, line 65)
  `check 'if ( false ∨ 3 < y + X ) then l := lv + -1 else x := -4 - z ; while -1 - p = 2 - -3 ∧ false do while ( ¬ ( 2 * -2 < y * y ) ) do skip' '{x → -4}' failed
  if ( false ∨ 3 < y + X ) then l := lv + -1 else x := -4 - z ; while -1 - p = 2 - -3 ∧ false do while ( ¬ ( 2 * -2 < y * y ) ) do skip = {x → -4}, your code outputs Traceback (most recent call last)
  :
  File "/afs/cats.ucsc.edu/users/l/ssalsabi/cse210a/hw2while/hw2-while/while.py", line 490, in <module>
    eval(stack) #evaluate that stack
  File "/afs/cats.ucsc.edu/users/l/ssalsabi/cse210a/hw2while/hw2-while/while.py", line 463, in eval
    if(stack[j] == '+' or stack[j] == '-' or stack[j] == '*'):
  IndexError: list index out of range
✓ 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
✓ owntest-1
✓ owntest-2
✓ owntest-3

```

```

✓ medium-12
✓ medium-13
✓ medium-14
✓ medium-15
✓ owntest-1
✓ owntest-2
✓ owntest-3
✓ owntest-4
✓ owntest-5
✓ owntest-6

57 tests, 2 failures

-bash-4.2$

```

As you can see, 49 out of the 51 tests from the testing script are passed. The last 6 tests are my own and are all passed for a total of 55 out of 57 tests. The 2 tests failed are hard-tests which have a weight of .56 points each for a total deduction of 1.12 points.