

A huge problem with this program was figuring out where the errors were. Part of this was because it was hard to tell if it was a code generator, or parser, or hw6 issue. I figured out this out just by reviewing lecture notes, or by seeing which instructions were being made by the generator. Doing `vm.run(true)` was very useful. I also found out I had a lexer error that hadn't shown up until this hw.

```
Static Error: program missing main function
● bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$ ./mypl examples/exec-arrays-structs.mypl
should be 20: 20
should be 10: 10
should be 30: 30
should be 5: 5
should be 15: 15
○ bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$
```

```
● bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$ ./mypl examples/exec-built-ins.mypl
Normal String
String with      tab
42
3.141590
7
f
o
Enter a string: hello
hello
○ bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$
```

```

Should be '-1': -1
Should be true 3 < 4: true
Should be true 3 <= 4: true
Should be true 4 > 3: true
Should be true 4 >= 3: true
Should be true 4 == 4: true
Should be true 4 != 3: true
Should be true not 4 != 4: true
Double Tests:
Should be '5.50000': 5.50000
Should be '9.25000': 9.25000
Should be '6.75000': 6.75000
Should be '9.37500': 9.37500
Should be '1.75000': 1.75000
Should be '2.08000': 2.08000
Should be '-3.40000': -3.40000
Should be true 3.1 < 4.2: true
Should be true 3.1 <= 4.2: true
Should be true 4.2 > 3.1: true
Should be true 4.2 >= 3.1: true
Should be true 4.2 == 4.2: true
Should be true 4.2 != 3.1: true
Bool Tests:
Should be true (not false): true
Should be true (true and true): true
Should be true (not false and true): true
Should be true ((not false) and true): true
Should be true (not (true and false)): true
Should be true (true or false): true
Should be true (false or true): true
Should be true (false or (not false)): true
Should be true (not false or false): true
Char Tests:
Should be true 'a' < 'b': true
Should be true 'a' <= 'a': true
Should be true 'd' > 'c': true
Should be true 'b' >= 'a': true
Should be true 'a' == 'a': true
Should be true 'b' != 'a': true

```

bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1\$

```

● bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$ ./mypl examples/exec-hello.mypl
Hello World!
● bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$ ./mypl examples/exec-linked-list.mypl
[10, 20, 30, 40, 50]
○ bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$
● bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$ ./mypl examples/exec-tree.mypl
Tree Values: 1 2 5 7 10 12 13 14 15
Tree Height: 5
○ bpoblette@DESKTOP-FEL3C9E:~/hw7-bpoblette-1$

```

