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CSE 465
HW1
30 January 2016

1. Completed Survey

```
spangldp@ceclnx01:~/HW1$ last | java Sample
spangldp
spangldp pts/17      172.25.52.22      Mon Jan 30 09:10   still logged in
spangldp pts/17      172.25.52.22      Mon Jan 30 08:59 - 09:10   (00:10)
zmudam   pts/19      10.33.3.210       Mon Jan 30 08:55   still logged in
zmudam   pts/7        10.33.3.210       Mon Jan 30 08:15 - 08:15   (00:00)
zmudam   pts/4        50.102.63.63      Mon Jan 30 07:39   still logged in
zmudam   pts/37      66.117.193.82     Sun Jan 29 16:35 - 17:42   (01:07)
zmudam   pts/36      66.117.193.82     Sun Jan 29 16:34 - 17:42   (01:07)
spangldp pts/9        172.25.54.46      Fri Jan 27 16:42 - 18:57   (02:14)
spangldp pts/21      172.25.54.46      Fri Jan 27 16:13 - 16:41   (00:27)
zmudam   pts/6        10.33.6.204       Fri Jan 27 16:13 - 17:05   (00:52)
```

2.

3. What works:

- Variable storage: Strings and Integers
- Simple Statements: =, +=, -=, *=, PRINT
- For Loops
- Runtime Error Detection

What doesn't work:

- Nested For Loops
 - Hits a runtime error when there is more than one for loop

4. Runtime Evaluation:

10,000,000 operations

Z+ -: 72 seconds

C++: 5 seconds

This is as expected since interpreted languages run slower than compiled languages.

```

spangldp@ceclnx01:~$ cd HW1/
spangldp@ceclnx01:~/HW1$ java Main prog1.zpm
4
360
spangldp@ceclnx01:~/HW1$ java Main prog2.zpm
7
8
helloworld
world
spangldp@ceclnx01:~/HW1$ java Main prog3.zpm
1032
31
spangldp@ceclnx01:~/HW1$ java Main prog4.zpm
XXXXXXXXXXXXXXXXXXXX
spangldp@ceclnx01:~/HW1$ java Main prog5.zpm
2034
-9117
spangldp@ceclnx01:~/HW1$ java Main prog6.zpm
117
10
3
4
214
spangldp@ceclnx01:~/HW1$ java Main prog7.zpm
RUNTIME ERROR: line 3
spangldp@ceclnx01:~/HW1$ java Main prog8.zpm
RUNTIME ERROR: line 2
spangldp@ceclnx01:~/HW1$ java Main prog9.zpm
0
5
RUNTIME ERROR: line 5
spangldp@ceclnx01:~/HW1$ java Main prog10.zpm
1
3
0
spangldp@ceclnx01:~/HW1$ java Main prog11.zpm
RUNTIME ERROR: line 2
spangldp@ceclnx01:~/HW1$ █

```

5.