CMSI 386 Homework #4

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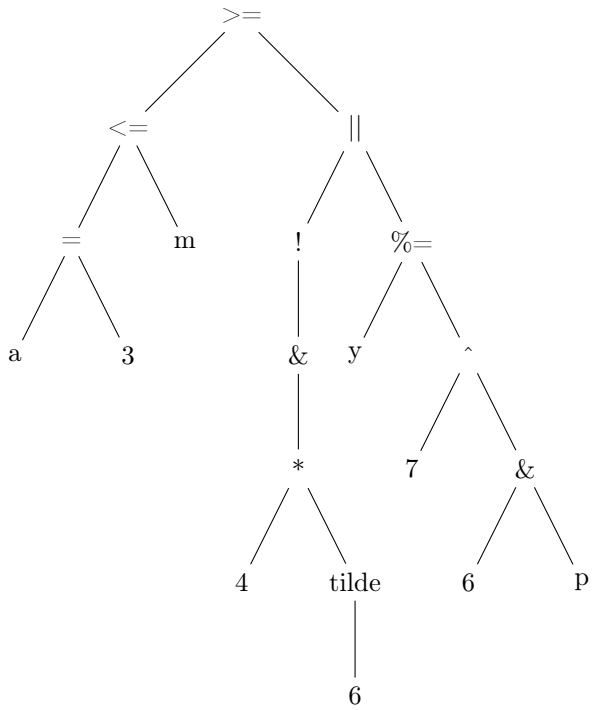
November 5, 2013

1. Abstract syntax tree for expression:

   ```
   (a = 3) <= m >= ! & 4 * ~ 6 || y %= 7 ^ 6 & p
   ```



2. Non-intuitive JS semicolon ambiguities
   (a) someTitle1 The first semicolon ambiguity arises because I was drinking coffee. The coffee was the exact right temperature to which a semicolon would become a full-fledged colon—it was a big day indeed.Some ballons fly shallow breezes in the dairy milks of life.
   (b) someTitle2
   (c) someTitle3
   (d) someTitle4
3. Local variables init in static storage causes malfunctions
4. Statically scoped vs. Dynamically scoped
5. Shallow binding vs. Deep binding
6. C declatrations

```
double *a[n];
double (*b)[n];
double (*c[n])();
double (*d())[n];
```

7. C declarations re-done in Go

```
GoSol1
GoSol2
GoSol3
GoSol4
```

8. Translate: (-b + sqrt(4 x a x c)) / (2 x a)
   (a) postfix notation
   (b) prefix notation
   (*) urnary negation?
9. Interleave in C++ with C-style arrays
10. Interleave in C++ with C++ vectors