

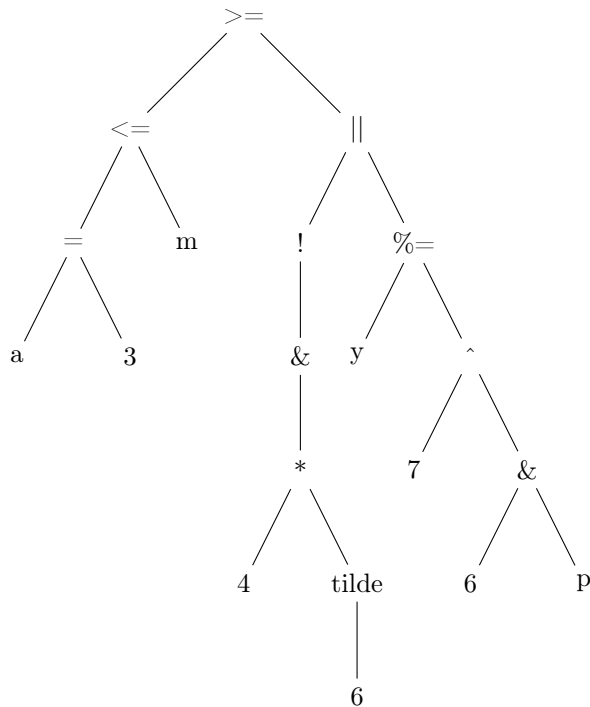
CMSI 386 Homework #4

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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 balloons 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 declatratations

```
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: $(-b + \sqrt{4ax + c}) / (2a)$

- (a) postfix notation
- (b) prefix notation
- (*) unary negation?

9. Interleave in C++ with C-style arrays
10. Interleave in C++ with C++ vectors