

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

```
i someTitle1
ii someTitle2
iii someTitle3
iv someTitle4
```

3. Local variables init in static storage causes malfunctions
4. Statically scoped vs. Dynamically scoped
5. Shallow binding vs. Deep binding
6. C declatratons

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

```
(a) postfix notation
(b) prefix notation
(*) urnary negation?
```

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