

Lab Seven

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GOAL

Semantic analysis with checking scope and type.

EXAMPLES FROM THE READINGS

1 DRAGON BOOK

Below is the example listed on the requirements document for the lab from the *Compilers (Dragon)* textbook.

1.1 PROBLEM 6.3.1

Determine the types and relative addresses for the identifiers in the following sequence of declarations:

```
float x;
record { float x; float y; } p;
record { int tag; float x; float y; } q;
```

x - float, Scope 1
x - float, Scope 2
y - float, Scope 2
p - record, Scope 1
tag - int, Scope 3
x - float, Scope 3
y - float, Scope 3
q - record, Scope 1