

CS453 Compiler Construction

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Plan for Today

Scanning/Lexing Quiz

PA1 - the Visitor Design pattern

Motivation

- Why study compilers?

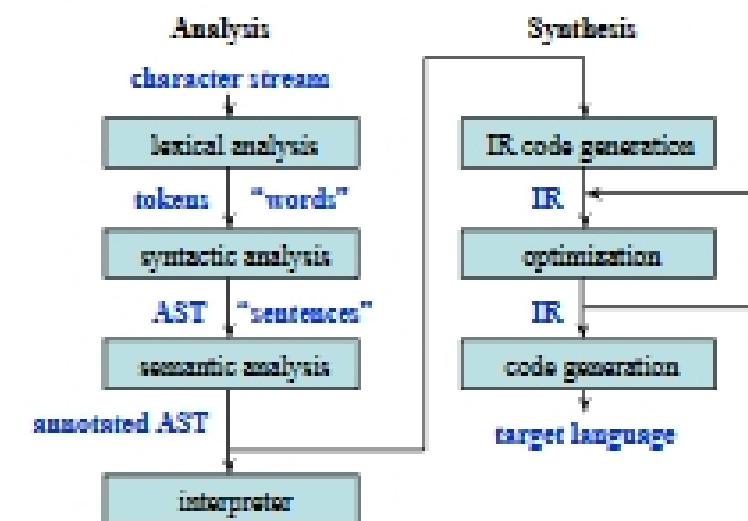
Programming Assignment Overview

- The compiler we will be building

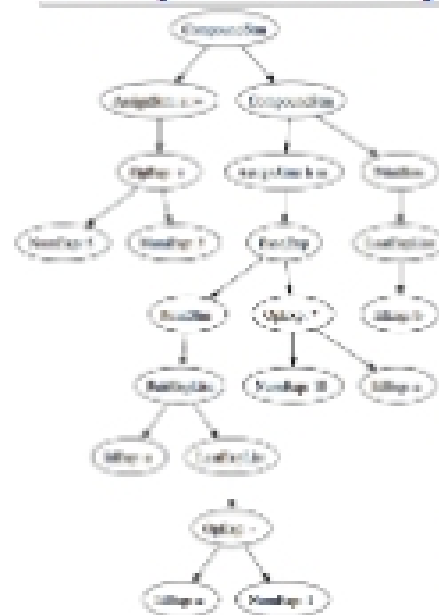
Scanning/Lexing Quiz

```
class Driver {  
    public static void main ( String [] id ) {  
        System.out.println( boolean && ,  
                             new int [3], a.length );  
    }  
  
    public int [] foo ( ) { }  
};
```

Structure of a Typical Compiler



Dot output from TestInterpreter



```
> java TestInterpreter
The following program:

a := 5 + 5;
b := (print(a, a - 1), 10 * a);
print(b)
```

has max depth of 8 and produces
the output shown below when run:
-Interpreter not implemented
yet-

```
public void
visitCompoundSem(CompoundSem a) {
    a.stm1.accept(this);
    out.println("");
    a.stm2.accept(this);
}
}
```

version and PA1

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