

CS453 Compiler Construction

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CS453 Lecture

Introduction and PA1

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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

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Scanning/Lexing Quiz

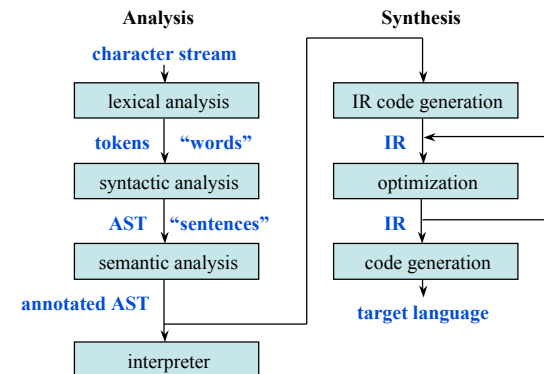
```
class Driver {  
    public static void main ( String [] id ) {  
        System.out.println( boolean && ,  
            new int [3], a.length );  
    }  
  
    public int [] foo ( ) { }  
};
```

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Structure of a Typical Compiler

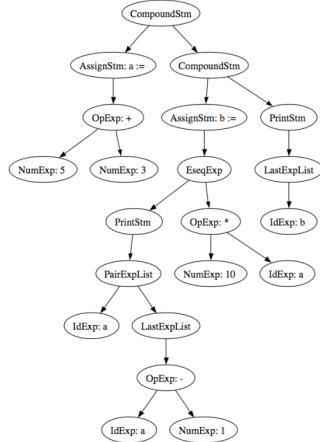


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Dot output from TestInterpreter



> java TestInterpreter
The following program:

```
a := 5 + 3;
b := (print(a, a - 1), 10 * a);
print(b)
```

has max args of 0 and produces
the output shown below when run:
<Interpreter not implemented
yet>

```
public void
visitCompoundStm(CompoundStm s) {
    s.stm1.accept(this);
    out.println(";");
    s.stm2.accept(this);
}
```

action and PA1

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