public class YahTree {
    id id ( ) scanner
    parser sees that id id can't appear where class def
    would shut

    (var || mr == 0)
    (id op id op num ) scanner
    
    \exp
    id op \exp
    id op num

    semantic error - can't || int (or can't == 0 a lambda)

    ' public class YahTree &
    int x = 'a';
    syntax or semantic?
```java
public abstract class Shape {
    int type;
}

public class Circle extends Shape {
    int radius;
}

public class Rectangle extends Shape {
    int w, h;
}

struct {int x, int y, int z} point;

how could the compiler check that you're using the fields in the union correctly?
\[ C \rightarrow S \quad \$ \]
\[ S \rightarrow A M \quad \text{any number of nonterminal } A's \]
\[ M \rightarrow S \mid \varepsilon \]
\[ A \rightarrow a E \mid b A A \quad \text{1 more } a \]
\[ E \rightarrow a B \mid b A \mid \varepsilon \quad \text{equal \# } a's \text{ and } b's \]
\[ B \rightarrow b E \mid a BB \quad \text{1 more } b \]

Ambiguous, so not LL(1)

Could also compute First, Follow, Predict and check if

\text{Predict}(x \rightarrow \cdots) \text{ and } \text{Predict}(x \rightarrow \cdots) \text{ are disjoint}