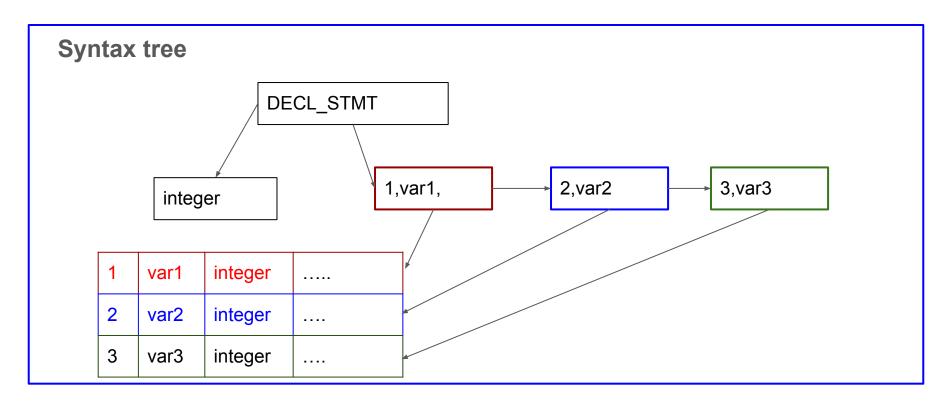
Compiler Lab Tutorial

Declaration statement

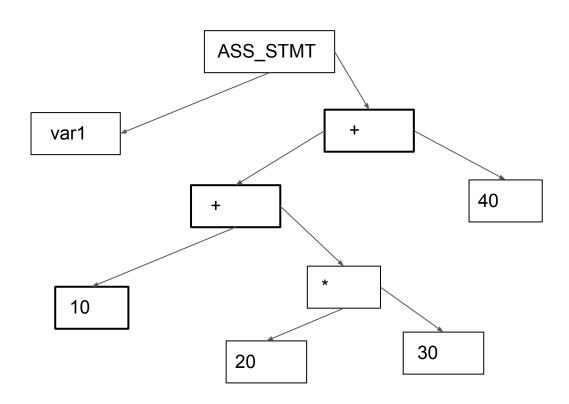
```
begindecl
integer var1, var2, var3;
enddecl
```

Equivalent Declaration statement in Pascal Language var var1,var2,var3: integer

Syntax declaration statement



var1= 10+20*30+40



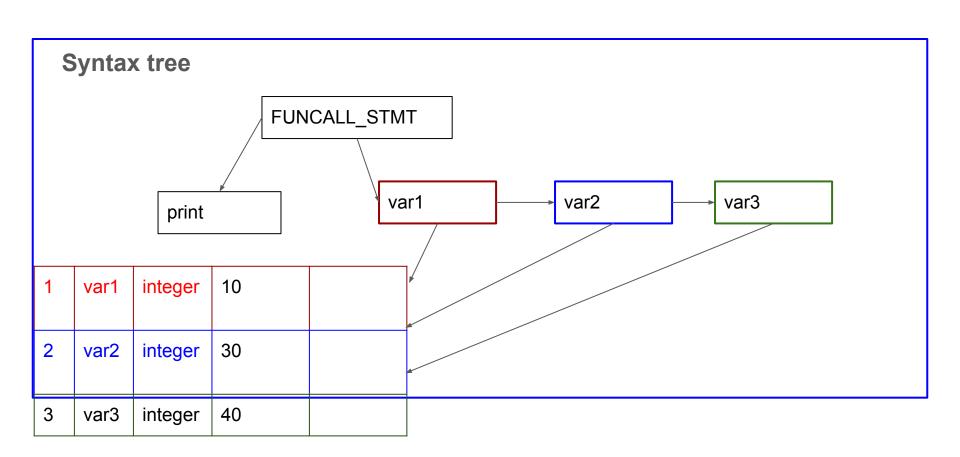
Symbol Table

1	var1	integer	UNDEF		1	var1	integer	10	
2	var2	integer	UNDEF		2	var2	integer	30	
3	var3	integer	UNDEF		3	var3	integer	UNDEF	

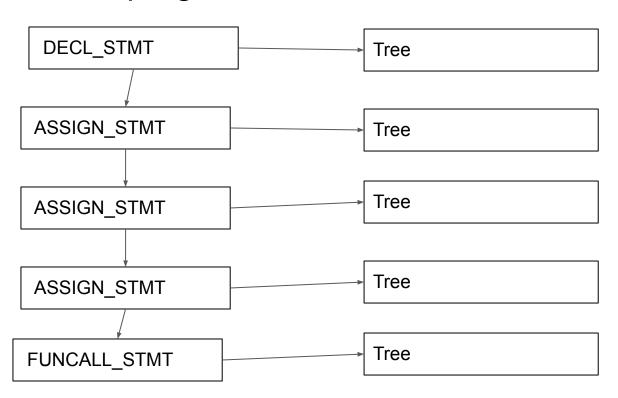
```
var1=10;
var2=30;
```

Symbol Table

2	var2	integer	30		1	var1	integer	10	
3	var3	integer	UNDEF		2	var2	integer	30	
					3	var3	integer	40	



A look at program



Semantics of print

Accepts variables and integer numbers as input.

If variables have constant value print the value.

If the variables does not have constant value, print the string "UNDEF"

If it is a number print the value.

Sample Input Program and AST print output

```
begindecl
   integer var1, var2, var3;
enddecl
 var1=10:
 var2=30;
 var3=var1+var2:
 print(var1, var2, var3);
```

DECL var1 var2 var3

ASSIGN var1 10;

ASSIGN var2 30;

ASSIGN var3 PLUS var1 var2

CALL print var1 var2 var3