

PROJECT 1 NOTES

- WHAT IS MOSTLY UNCHANGED FROM STARTUP?

— THE AST TREE WALK

IF THERE WAS A CALL TO
COUNTDECLS AND USES,

YOU WILL NEED A CALL TO
YOUR METHOD

- WHAT MUST BE CHANGED?

THE DATA STRUCTURE YOU BUILD
AS OUTPUT

— WHAT DOES THE NEW DATA STRUCTURE
LOOK LIKE?

REVERSE ENGINEER FROM
REQUIRED OUTPUT

EXPECTED OUTPUT IS

```
{ int a;  
  Bool b;  
  IF (b)  
    a = a + 1;  
}
```

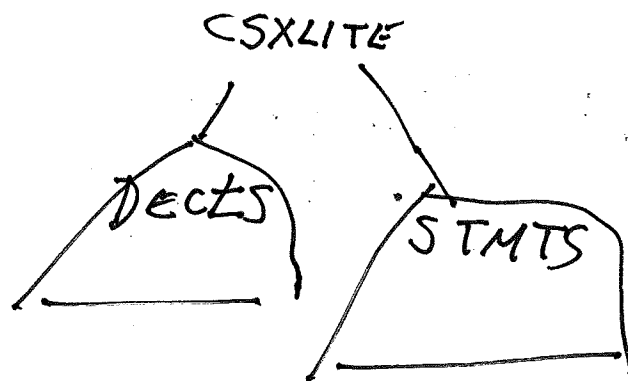
1: a(Int): 4(2)

2: b(Bool): 3

Now DETERMINE WHAT STRUCTURES
PRODUCE THIS DATA

- RULES OF CSX-LITE ARE VAGUE, AREN'T THEY?
NEED MORE PRECISE RULES

LOOKING AT AST TELLS US
A LOT:



```
{ INT a;  
  a = b;  
  { BOOL b;  
    ⋮  
  }  
}
```