C53311 October 26,2012 Friday (1)

Last time:

Process the grammer in this order

- 1. Make the start symbol non-recursive
- 2. Remore 2-Nes
- 3. Remove chack riles.
- 4. Remore variables that do not others of
- 3. Remove voicsles that are not reachable from the start symbol.
- 6. Convert to Chomoky Normal Form (CNF)

A grammer & G= (V, E, P, S) is in Chansley, hormal form if each whe has one of the following doms:

$$(i)$$
  $A \rightarrow BC$ 

$$A \rightarrow BCDE \qquad A \rightarrow BT,$$

$$T_{1} \rightarrow CT_{2}$$

$$T_{2} \rightarrow DE$$

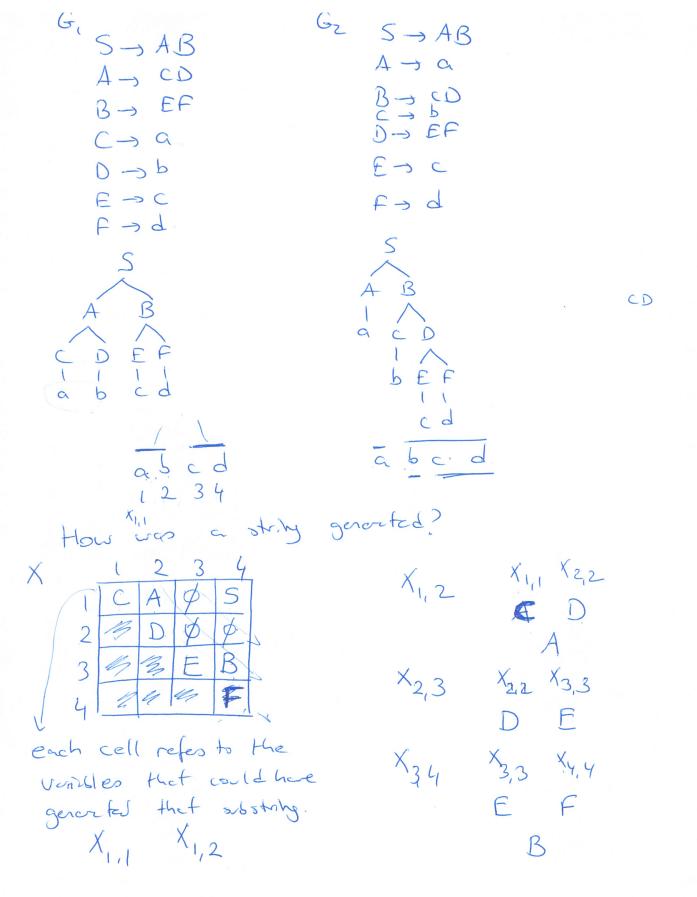
$$A \rightarrow BT_{1}$$

 $A \rightarrow abc \qquad \overline{l}_{1} \rightarrow a$   $A \rightarrow \overline{l}_{1} \overline{l}_{2} \overline{l}_{3} \rightarrow c$   $\overline{l}_{3} \rightarrow c$ 

T5 > b

If a grammer is in Chandy & Normal Form, then the derivation tree is biting at the then the derivation tree is biting at the intermetial large has intermetial large prent.

To DT2



X<sub>1,3</sub> X<sub>1,1</sub> X<sub>2,2</sub> X<sub>3,3</sub>

If a string has a characters a > 2

how many ways are there to split it into two parts? n-1

X<sub>1</sub> · X<sub>2</sub> · X<sub>3</sub> - X<sub>1</sub> · X<sub>1</sub>

X<sub>1</sub> · X<sub>2</sub> · X<sub>3</sub> - X<sub>1</sub> · X<sub>1</sub>

X<sub>1,1</sub> · X<sub>2,2</sub> X<sub>3,3</sub>

X<sub>1,1</sub> · X<sub>2,3</sub>

C

A

E