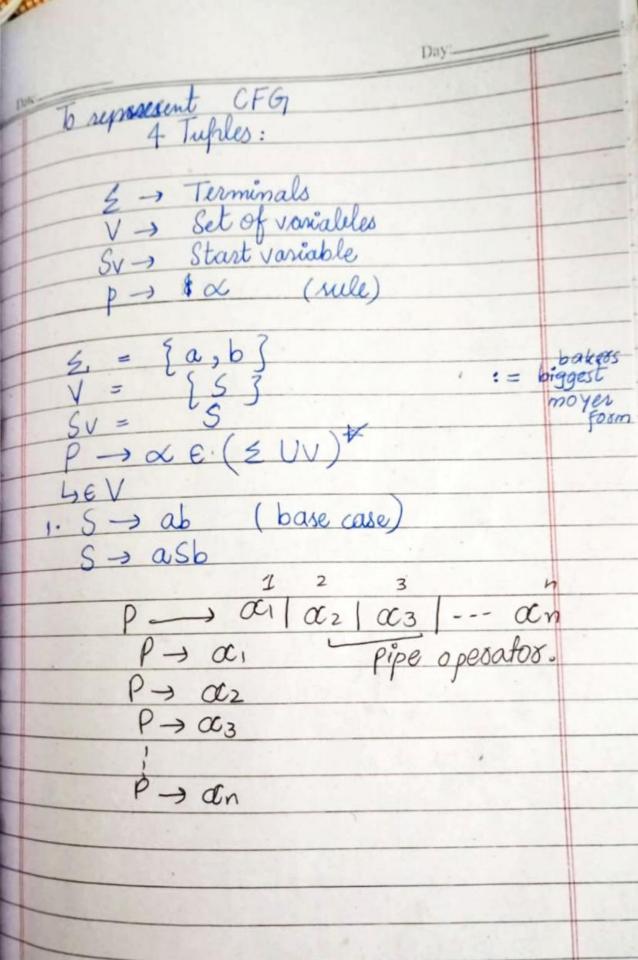
Lectuse # 12 Day Tullow Date Sep 30, 2025 Programming aaabbb n=3 n=1 ab aaaaabbbbbb n=5 void S(n) { if (n L 1)
return; cout << a";

\$15(n--);

cout << "b"; Context Free Lanaguage: JPDA (pushdown (context free grammer)

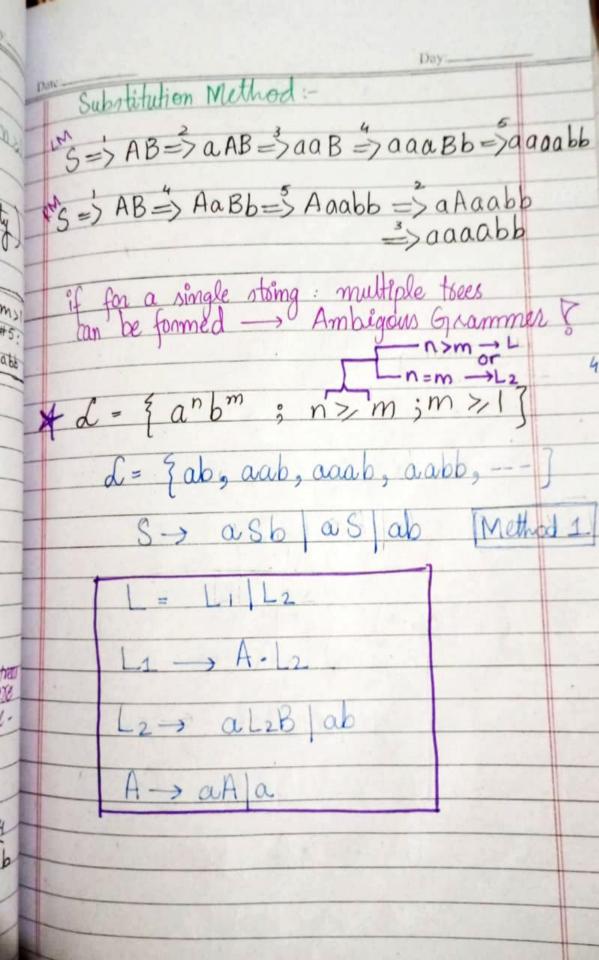


Date: Day
Palindrome \(\xeta = \{ab}\}
d= [sa, b, aa, bb, aba, aaa, bbb, bab, aaaa, bbb,
bab, aaaa, aaba,
P: $S \rightarrow a + b \mid \Lambda \mid aSa \mid V = [s]$ $S \rightarrow bSb \mid SV = S$
6 2 hCh 1 = fS]
SV = S
Trace Tree: a babbaba
C
12
95
/ b c b
la sa
656
May
Not Palindromer
L = {ab, ba, aab, baa, aaab, abaa
aaba,
S= ab ba bsa asb S= asa bsb aPb bPa P->n aP bP
J= asalosb alb bla
P->1 101/61

Lecture # 13 Day Thursday Dak 2nd Oct 25 Write CFG: * [= {anbm; n>m; m>1] L= {aab, aaab, aaabb, aaaab, aaaabb Jerivation Tree (LM, RM)

-> Substitution Method (LM, RM) aaaab no variable at lea-Leaf should belone to & on A Substitution Method: L(G) = {x \in \(\frac{2}{3} \) \Sv = \(\frac{2}{3} \) \Rightarrow Step . S=> as=> aaaab should not contain.

Date: Wishout writting a danguage (closure Lang : A $S \rightarrow AB$ $A \rightarrow a^{\circ} | aA^{\circ}$ $B \rightarrow aBb^{\circ} | ab^{\circ}$ Pf m>1 Rule #5: aabb base case aaaabb Pule: 2,2,2,4,5 Left Most : a Right Most: Rules: 1, 4, 5, 2, 3 a



10000 na 13 man L = { anb m cp; p=n+m;n,mx0] L= {1, ac, bc, abcc, aabcc, abbcc, S -> aSc A A -> bAC AG 4 d= {(a'b') (cod) k; i,j,k>,0} S -> ASB IN A - a Ab A B > FCBd 1

p = n+m * d= {a"b"cl; n>1; m>0} S -> asc | aaAcc * d= { a2n b3m cp p= n+m; n>1;m>0 S -> aaScc | aaaa Acc A -> bbbAc | A *d= [a2n b3m cp p= 2n+3m; n>1; m>0 S -> aaScc | aaaa Acccc A -> bbb Accc | A -> * h = { xa(n) = xb(n)} L= { 1, ab, ba, aabb, bbaa, baaba, abab, baba, --- } 8 -> aB | bA | A B -> b5 | aBB A -> a5 | bAA S- asb|bsa|n|ss