Production Production
(CNF Algorithm) □→□
-> We have 4 main steps
1. Eliminate empty production:
1. Eliminate empty production: des ce ses glucie E 11 (49 (9 15 case of gossible cases)1
Possible Cases)1
iet AxB & (A&B may be nullable i. AxB xB Ax x -> the 4 possible cases.
in AXBIXBIAXIX -> the 4 possible cases.
2. Eliminate Variable Unit Production Eliminate Var
Elis la de la de de de variable de de
· W D D
3. Replace Long Productions by Short ones: (20 9 cours or do 561 Gis ase of
(20 9 (mis en do 561 (mis ase ost
ie A > BCDE
$A \rightarrow KL$
K-BC, L-DE
Rallowed Cases only line a! Elling
$X \rightarrow XX$ or $X \rightarrow X$
apital crisps de 19 [apital apolo
small a jo de 19 (ne capital cojos)
4 Move Terminal to Unit production
A-bC ID A-BC
$\mathbb{D} \rightarrow b$
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$X \rightarrow 0X 1X E$
CLA.
Mary M. M. Distant Av. 21. State of M.
Steps For Removal of Unit Production:
We have 3 main steps:-
1. To remove A > B, add production A > X to the
grammer rule whenever B > X occurs in the grammar
where [x > Terminal]
12. Delete A . B from the grammar
2. Delete A > B from the grammar 3. Repeat from Step & until all Unit Productions are removed
are removed. Y-ra
S-XY, X-a, Y-Zb, Z-M, M-XX, Xxa
S-XY, X-a, Y-Zb, Z-M, M-xXX) X-sa SoluTion! add this to, Unit Productions:
D'since Noa : Mosa our grammar 1 5 7 7 M
& range M -N M -N
=5-X4, X-20 4-716, Z-M Ivanable 15 1 viero
MAN, M, a, N, a Conother I variable de 19 1-
2) Repent:
"Z > M & M > a : Z > a
: 4 × 7 & 7 × a · 4 × a · 4 × a
5->XY, X->a, Y->a/b, 7-15-11-2/)
: Final Grammar Out, Now Z, M, N Can not be reached
from 5, so we need to apply
medification.
Remove un saehable variables in
Smal S > XY, X > a, Y > a [6]
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