## CS & IT ENGINEERING

## Compiler Design

Lexical Analysis & Syntax Analysis

Lecture No.



By- DEVA Sir



## TOPICS TO BE COVERED



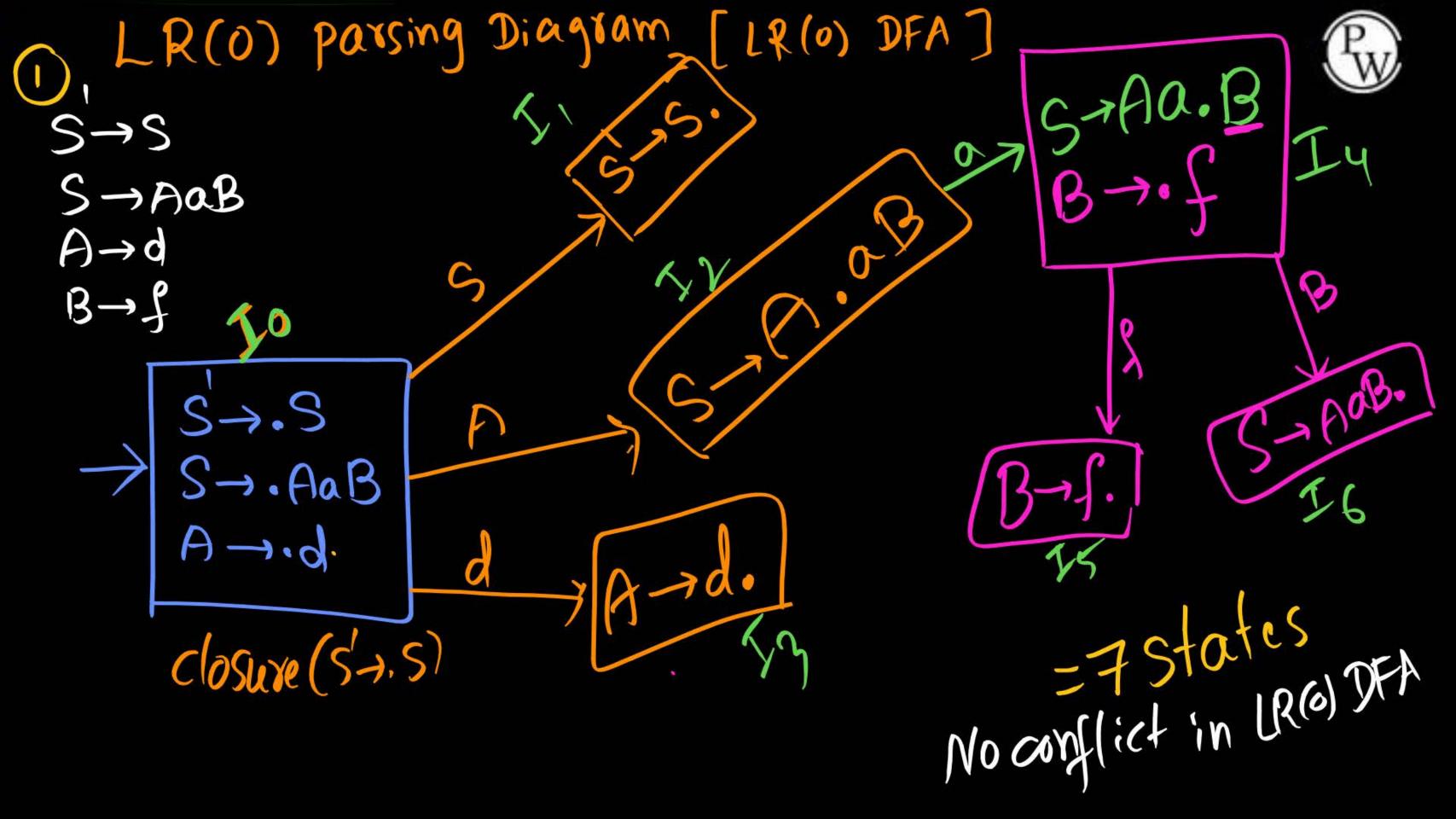
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- Closure (
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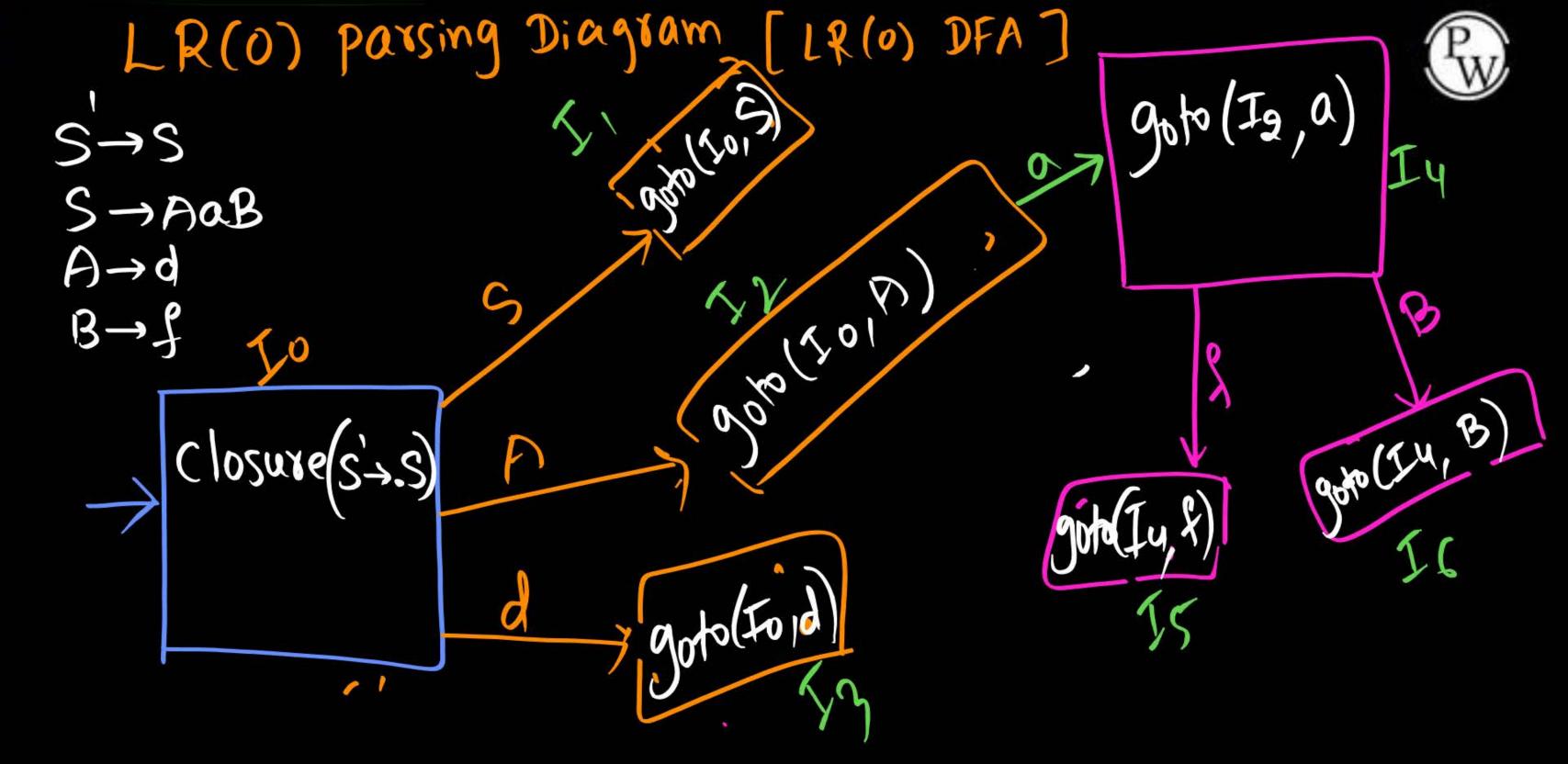
closure (): It is set of items closure (X -> 0 . Y

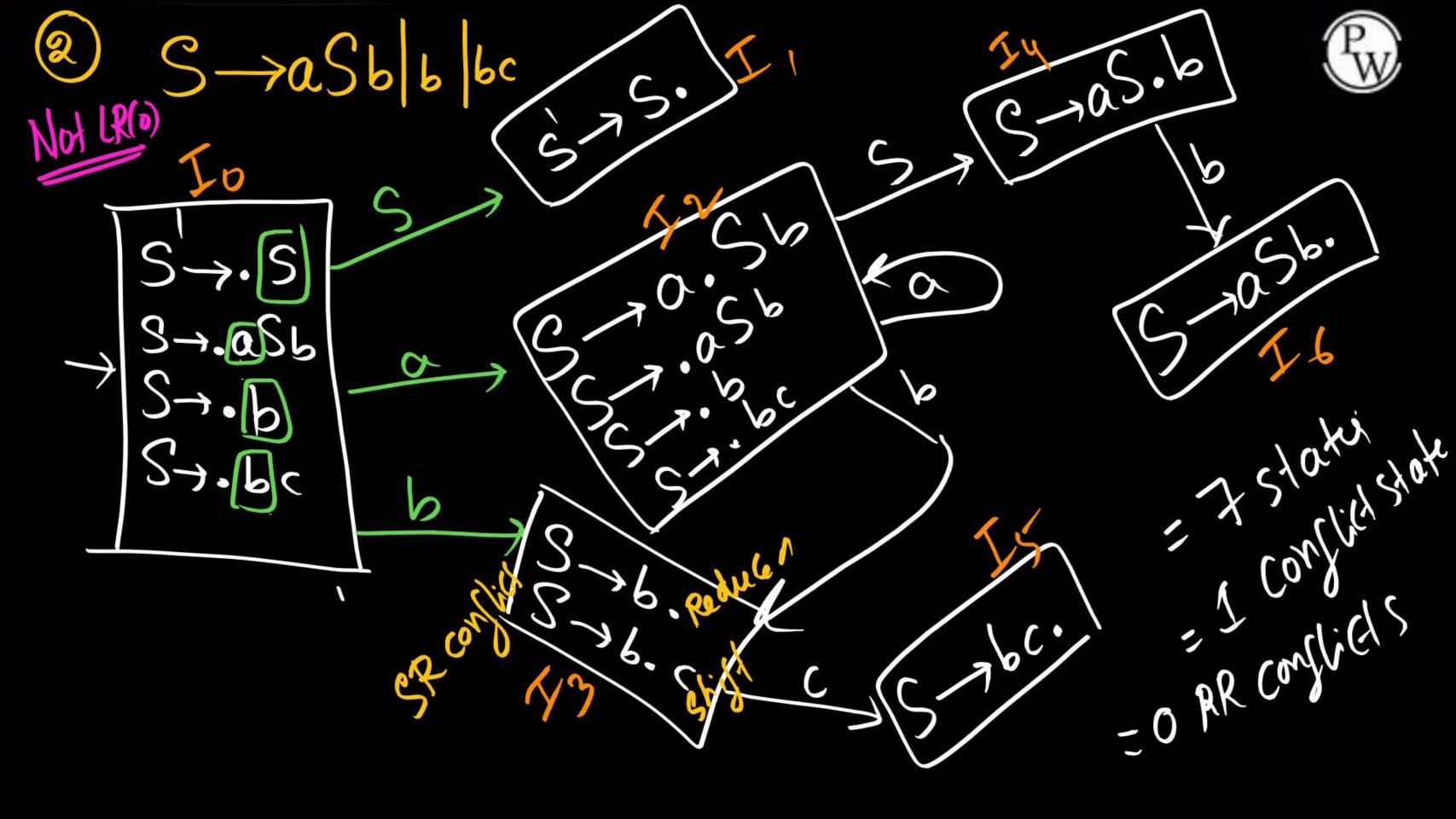
$$S \rightarrow AaB$$
 $A \rightarrow A$ 
 $A \rightarrow A$ 

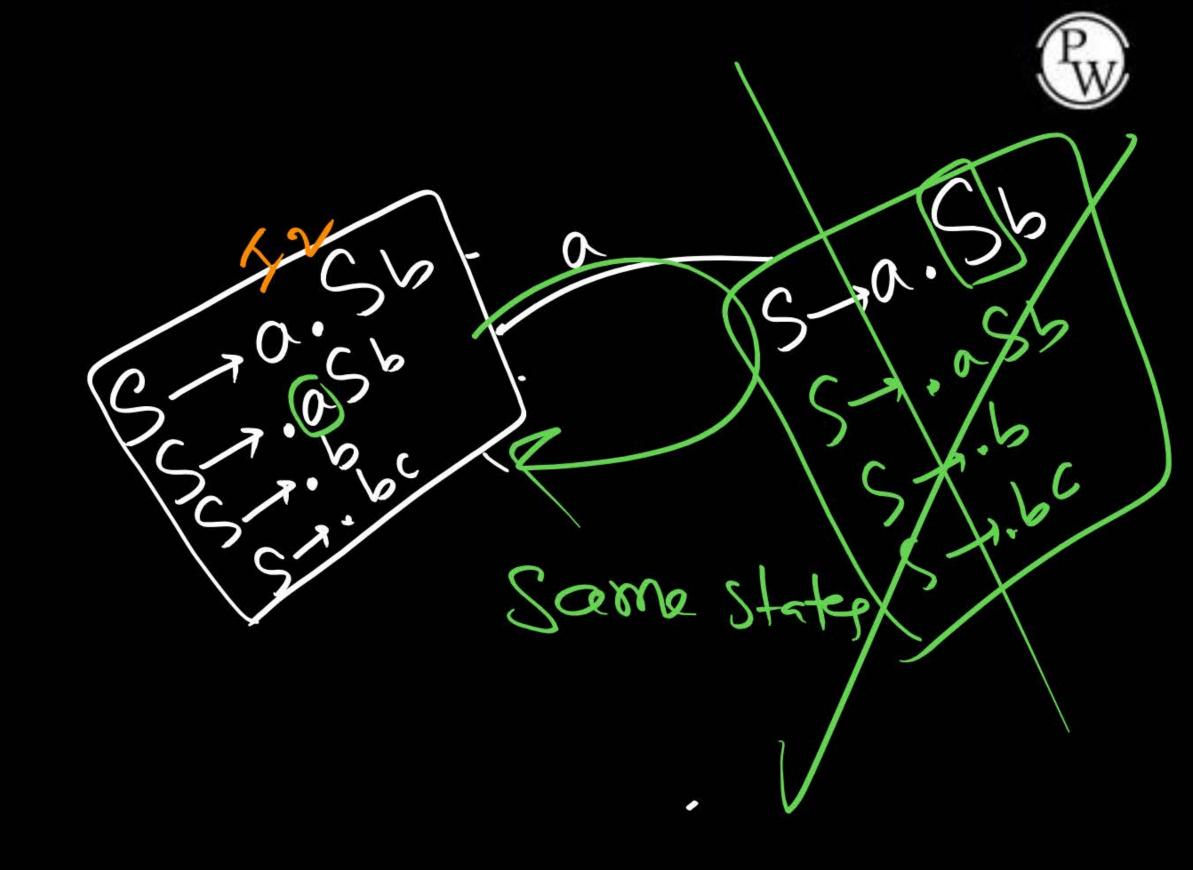


LR(0) parsing Diagram [LR(0) DFA] ald All S 5-5 S-AaB  $A \rightarrow d$ Aitemy BJf Io = closure (S -> · S) = \( \s' \, \s \, \s \, \AaB, \ta\. \d \\ \)

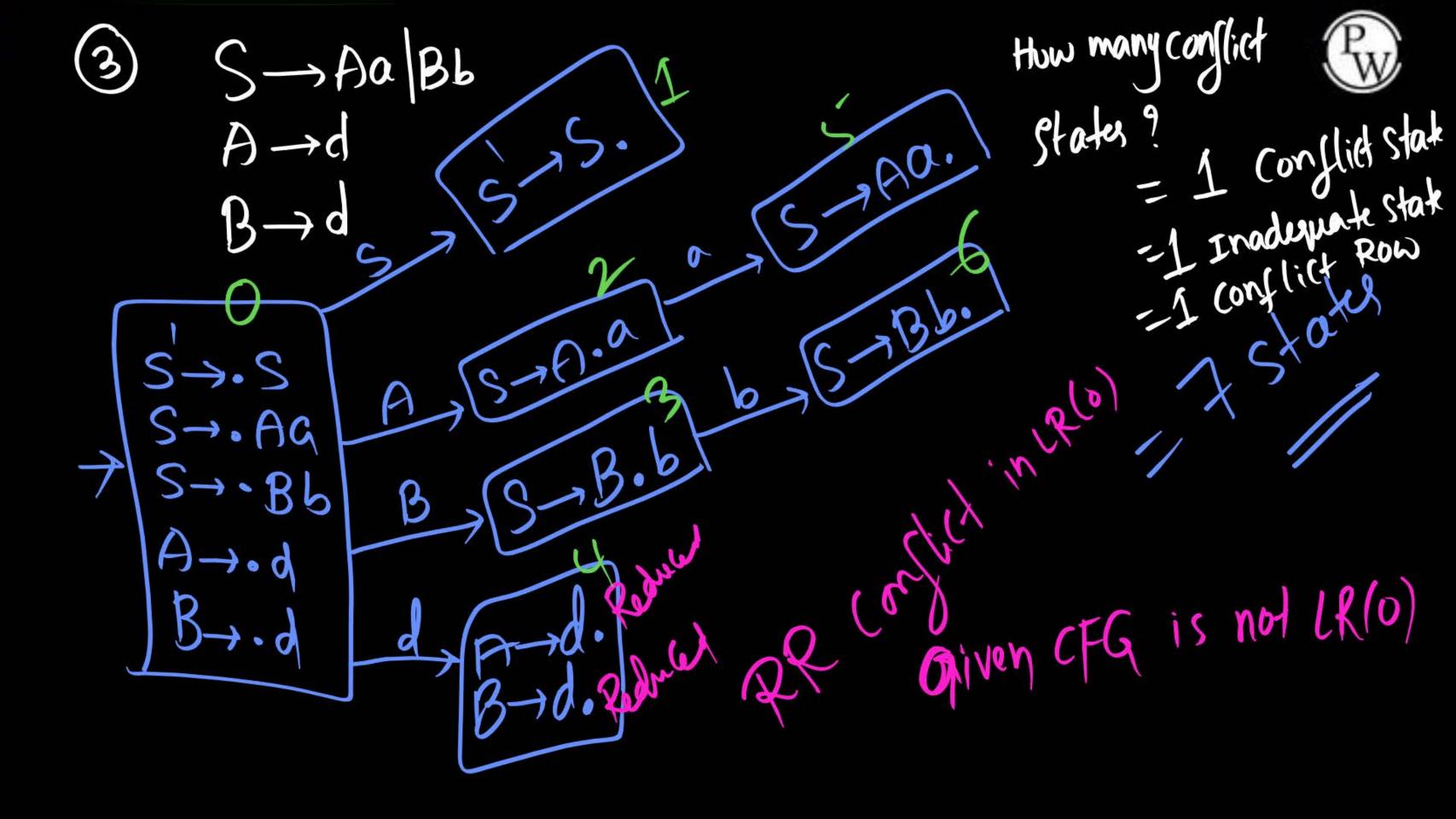








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Caupinakon IN DKK 2 Rot Carries Ca ORL SXOX ON English. 67 X Opr. Constitutes IN

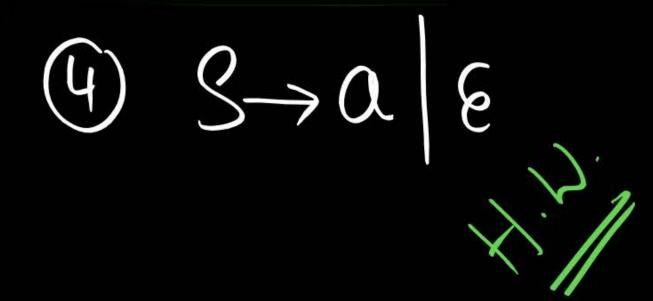
How to find conflicts in LR(0) parsing DFA?



I) SR Conflict [Shift-Reduced conflict]

If State has bolk Shift item & Reduced item then we say SR conflict.

I) RR Conflict [Reduced-Reduced Conflict] If State has atleast 2 reduced Items thun we say RR conflict.





R, = . E Same R2:

Summary

Pw

LR(0) DFAV



