

Bottom-Up Parser

Prepared By:

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Bottom-Up Parsers



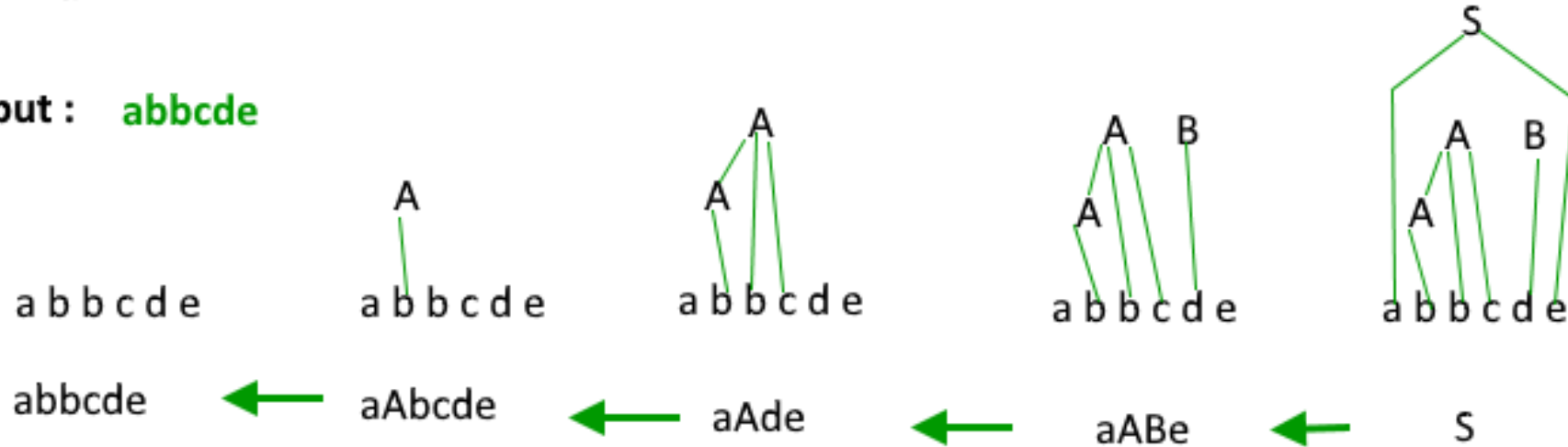
Bottom-Up Parser

$S \rightarrow aABe$

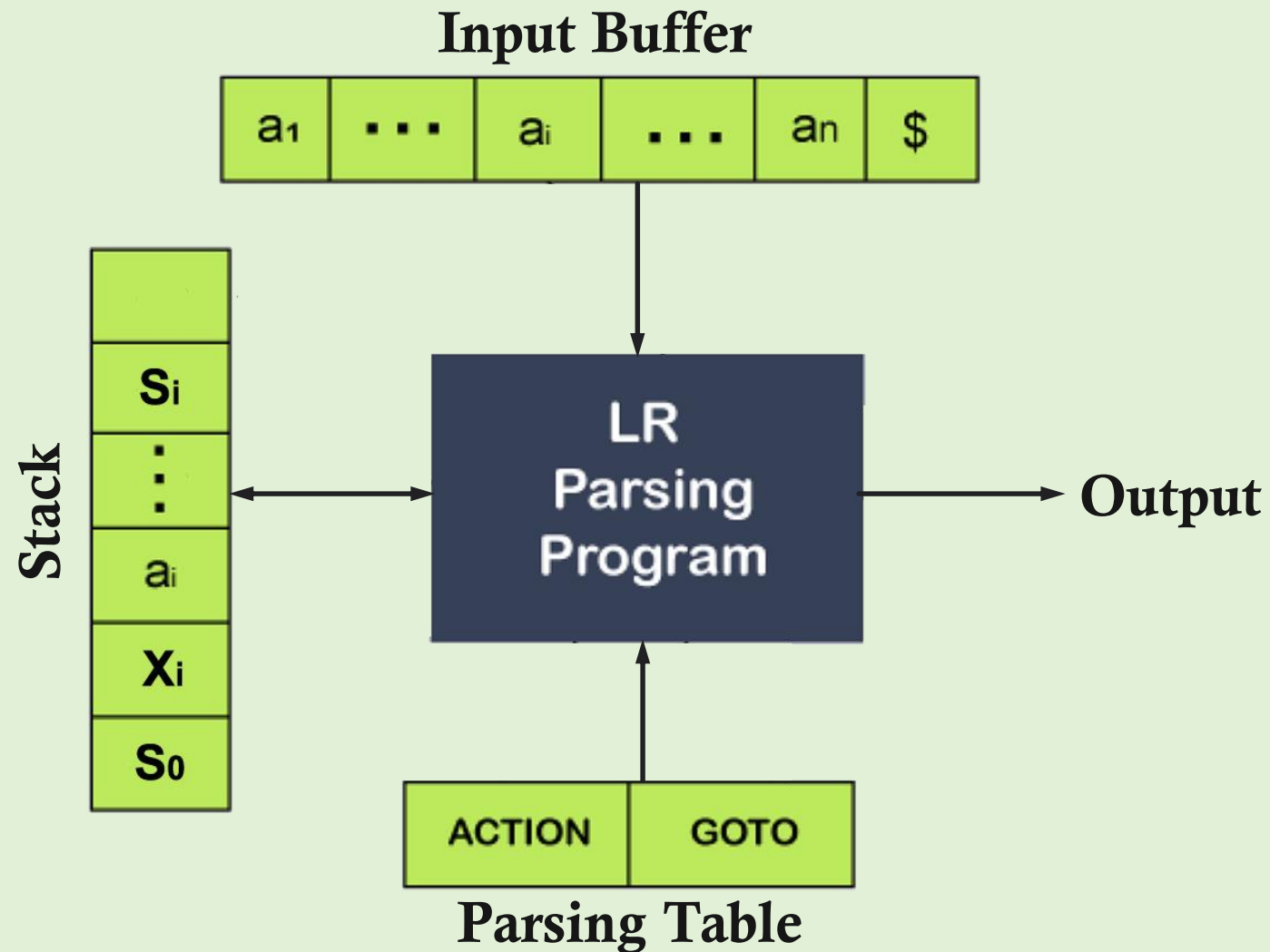
$A \rightarrow Abc/b$

$B \rightarrow d$

Input : **abbcede**

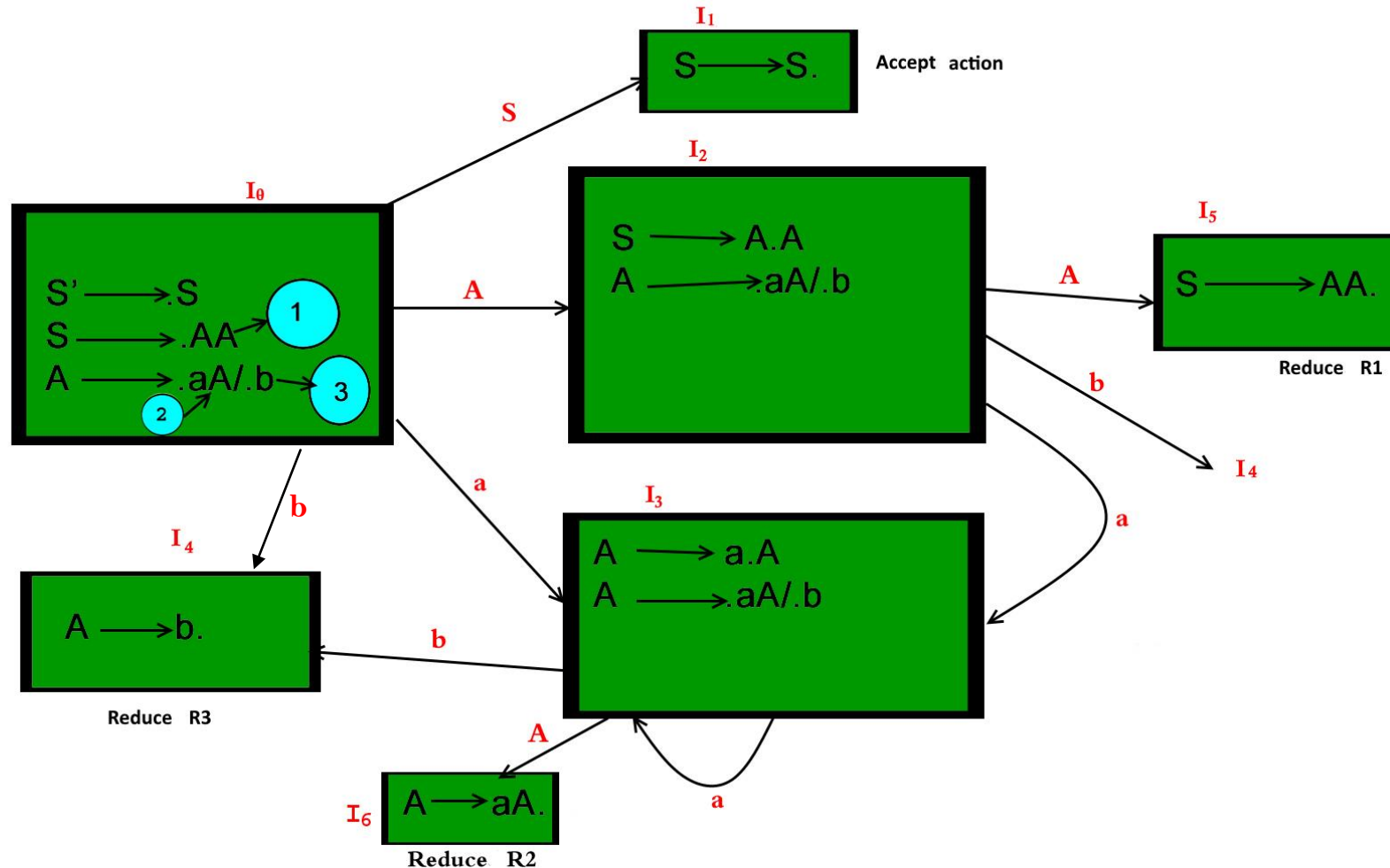


LR Parsers Block Diagram



Generating LR(0) Items – Cont.

Step 3: Generate LR(0) Items Collection



Step 4: Construct LR(0) parsing table

States	Action			Go to	
	a	b	\$	A	S
I ₀	S3	S4	err	2	1
I ₁	err	err	accept	err	err
I ₂	S3	S4	err	5	err
I ₃	S3	S4	err	6	err
I ₄	r3	r3	r3	err	err
I ₅	r1	r1	r1	err	err
I ₆	r2	r2	r2	err	err

Thank You!

