

Prelude: How to learn new concepts

- 1) Read about the concept, Huh?
- 2) Participate in class, Ahhh!
- 3) Read about it again, Hmm...
- 4) Do some sample problems, What about?
- 5) Go to office hours and ask questions, Ok
- 6) Do some more sample problems, Got it!

Plan for Today

LR(k)

- left-to-right parse
- rightmost derivation
- k-token look ahead
- bottom up

LR Parsing Table

- What is it?
- How is it used to parse?

LR Parsing implemented with push-down automata

Example LR Parse Table

- (1) $S \rightarrow S (S)$
 (2) $S \rightarrow \text{epsilon}$

State	Action			Goto
	()	\$	S
0	r2	r2	r2	1
1	s2		accept	
2	r2	r2	r2	3
3	s2	s4		
4	r1	r1	r1	

Pushdown Automata for Grammar

