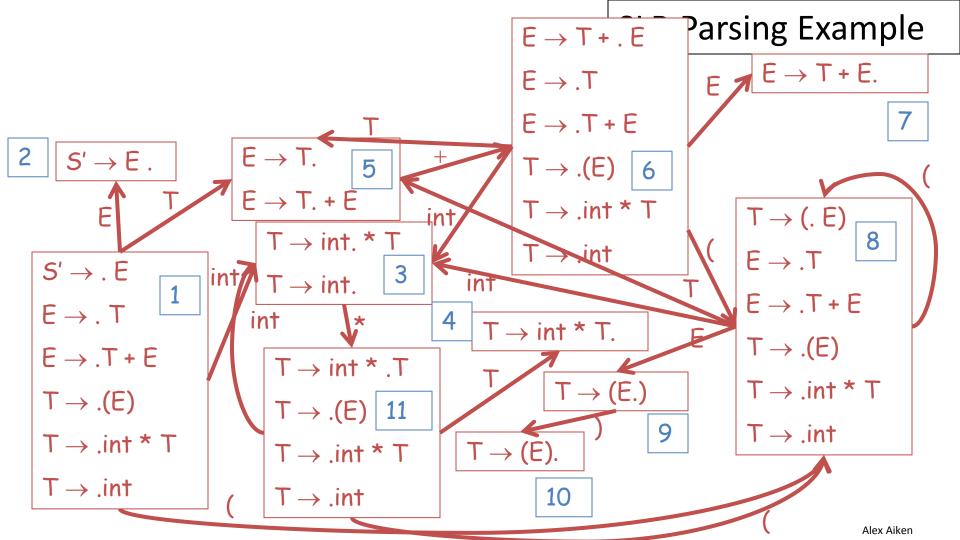
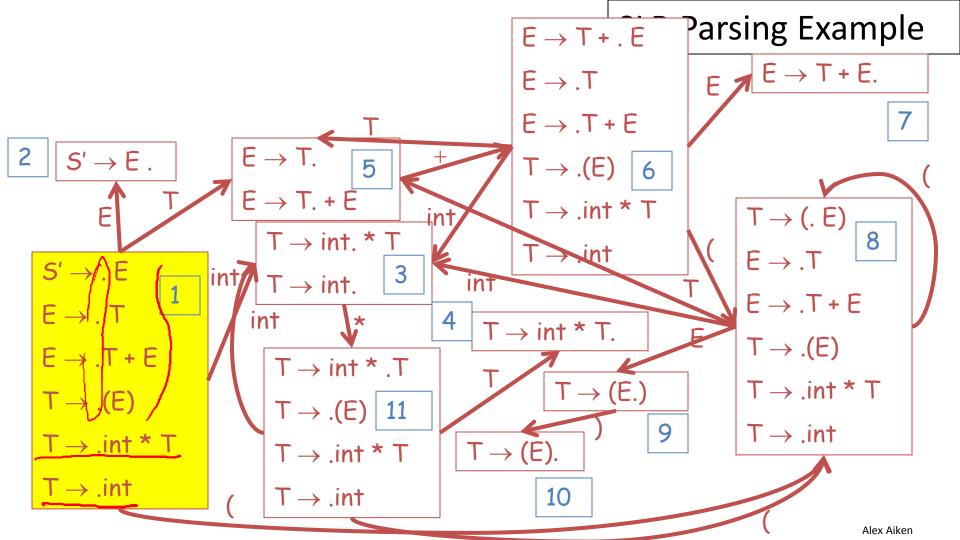


Compilers

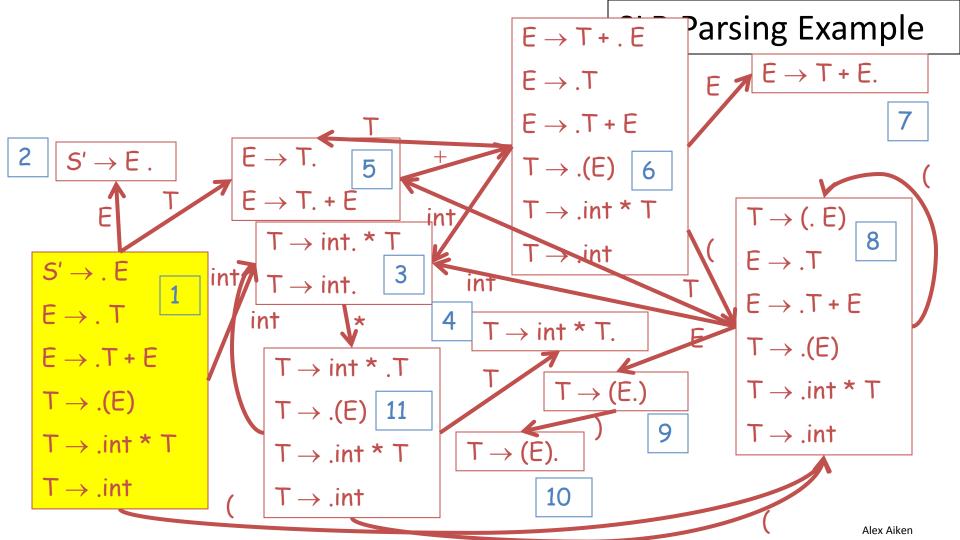


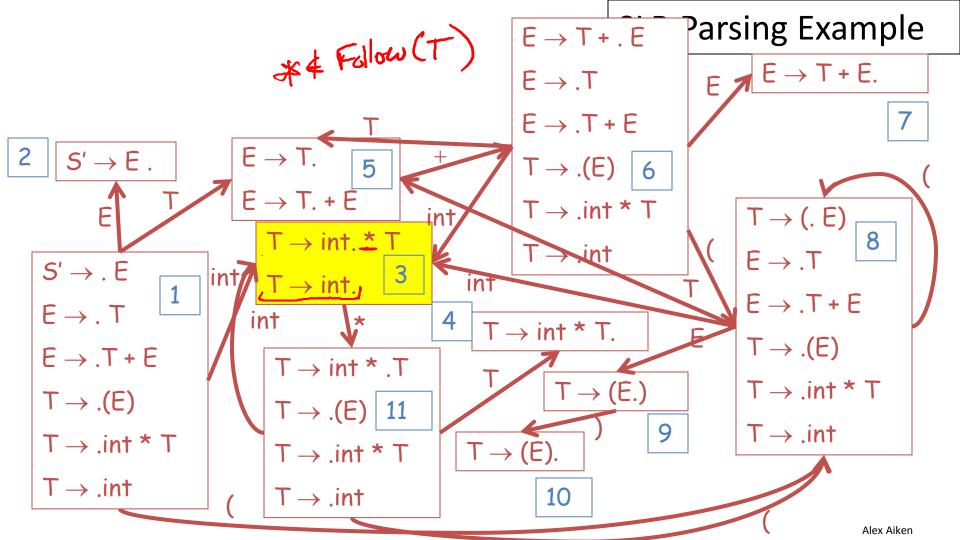
Configuration DFA Halt State Action

_int * int\$

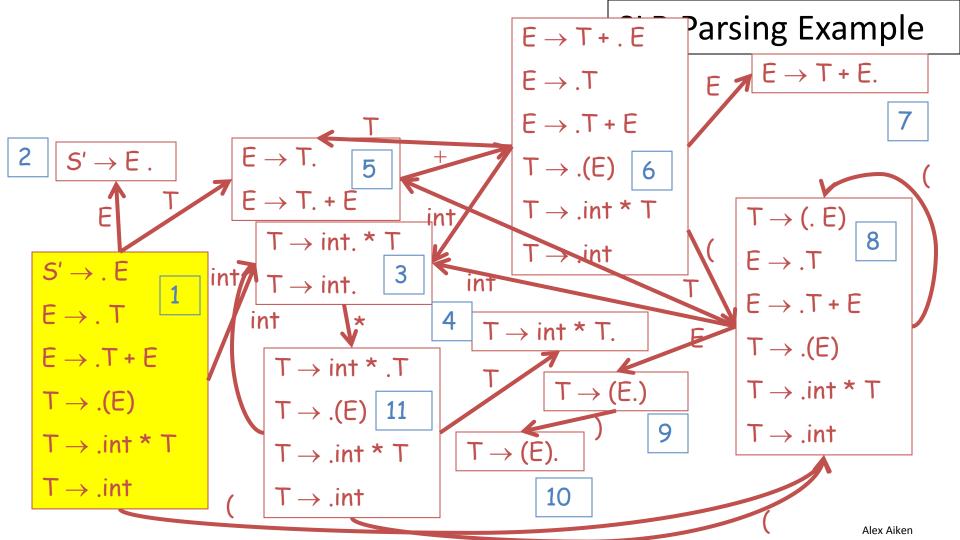


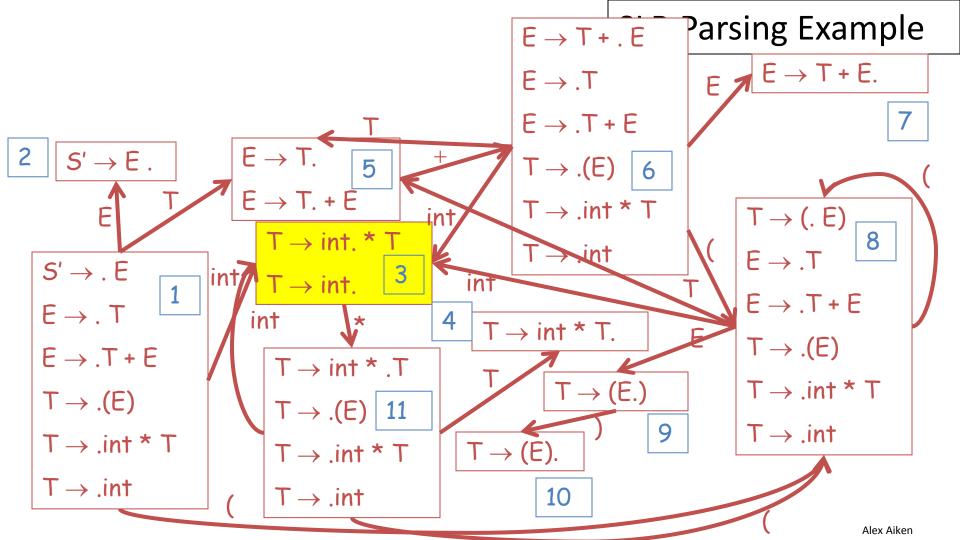
```
Configuration DFA Halt State Action
|int * int$ 1 shift
| int | * int$
```

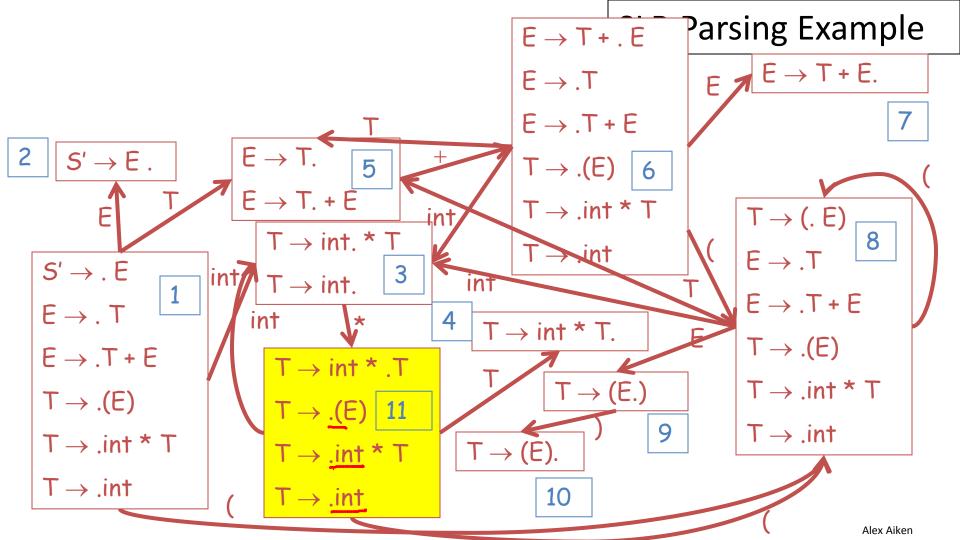




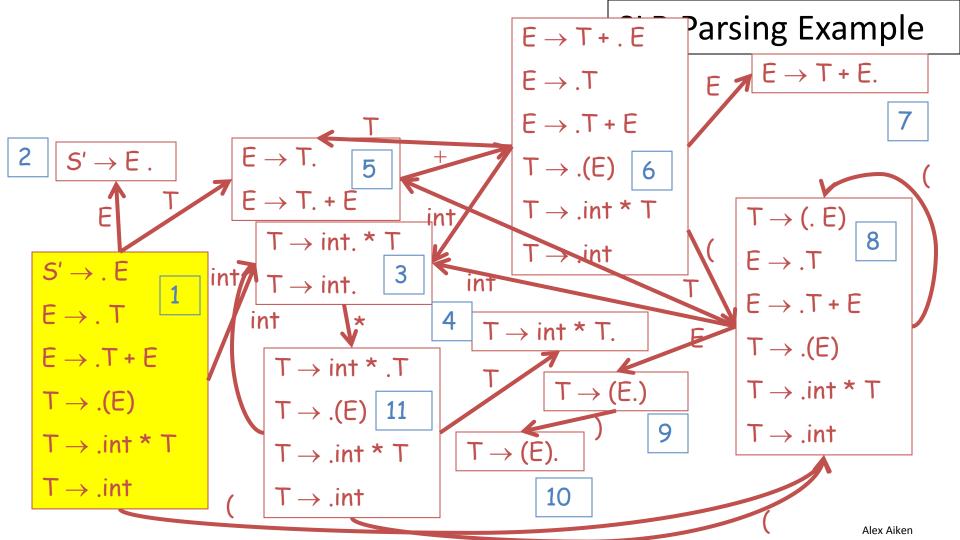
```
ConfigurationDFA Halt StateAction|int * int$1shiftint | * int$3 * not in Follow(T)shiftint * | int$
```

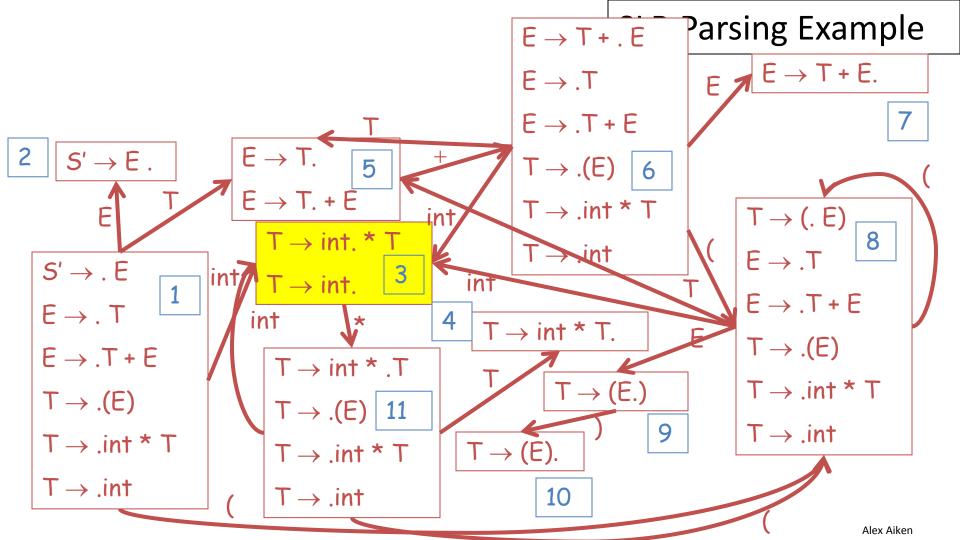


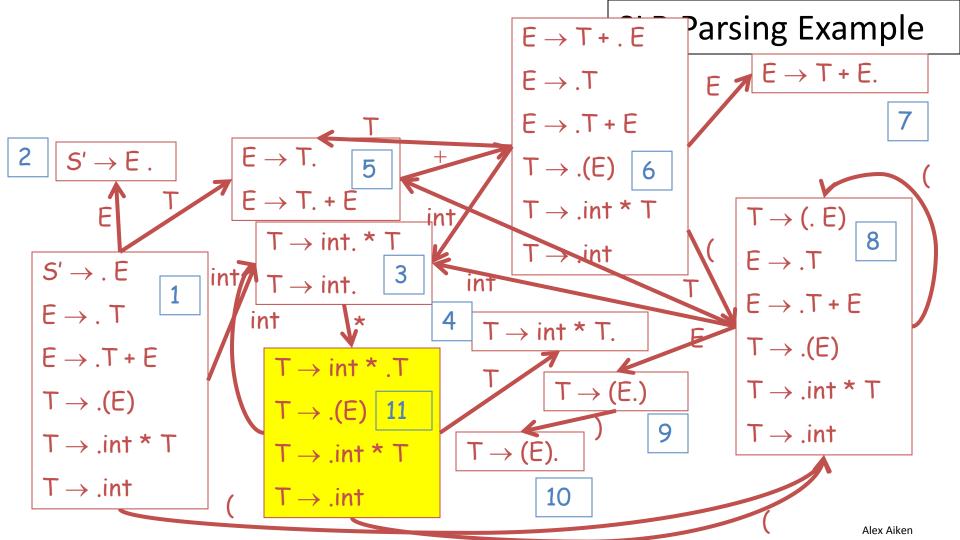


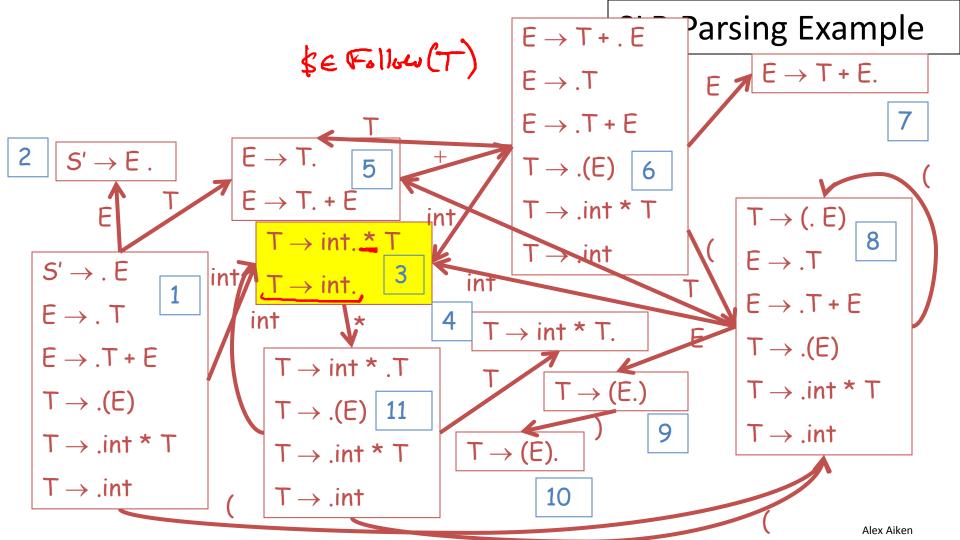


Configuration	DFA Halt State	Action
int * int\$	1	shift
int * int\$	3 * not in Follow(T)	shift
int * int\$	<u>11</u>	<u>shift</u>
int * int \$		

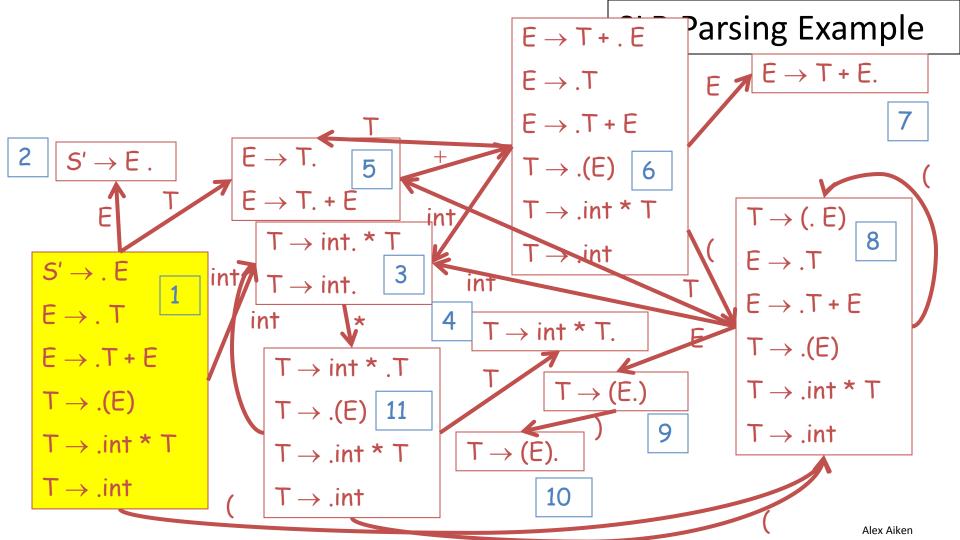


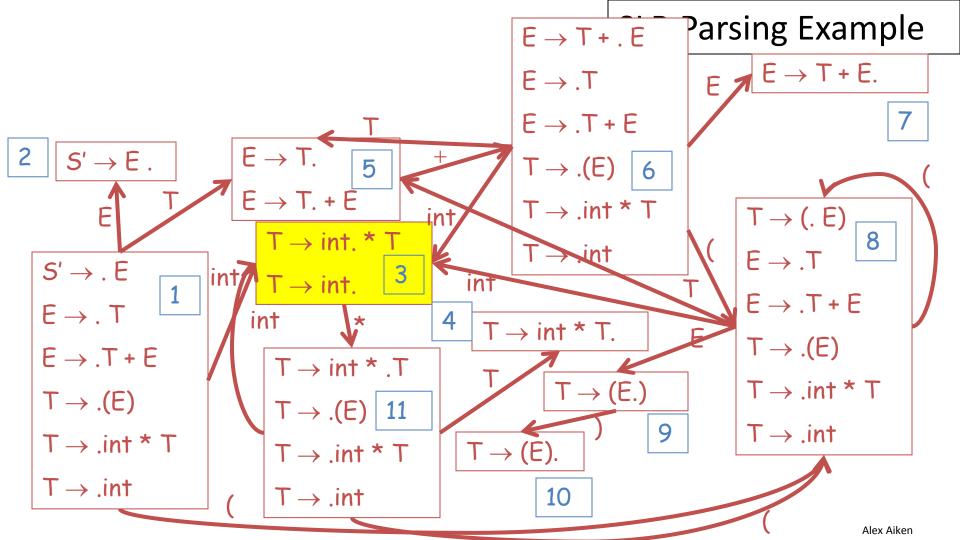


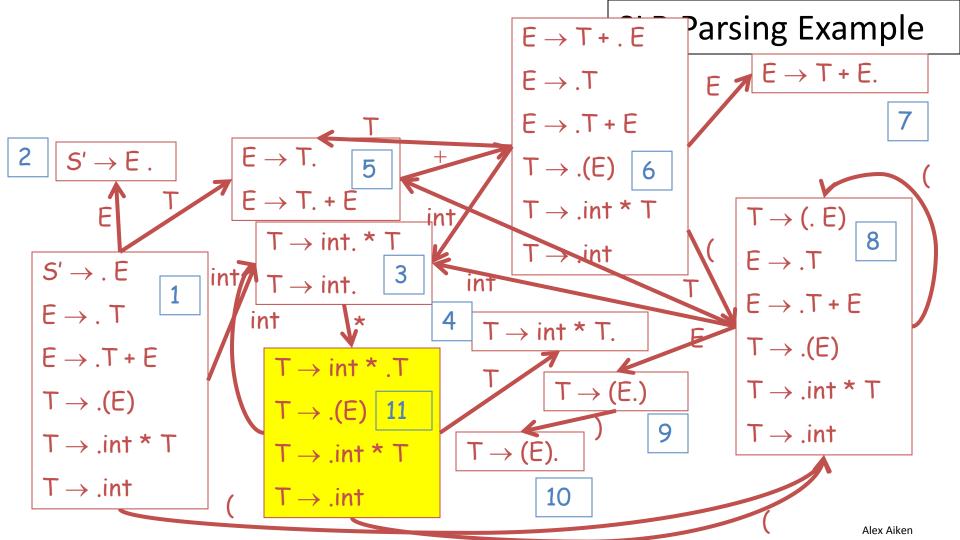


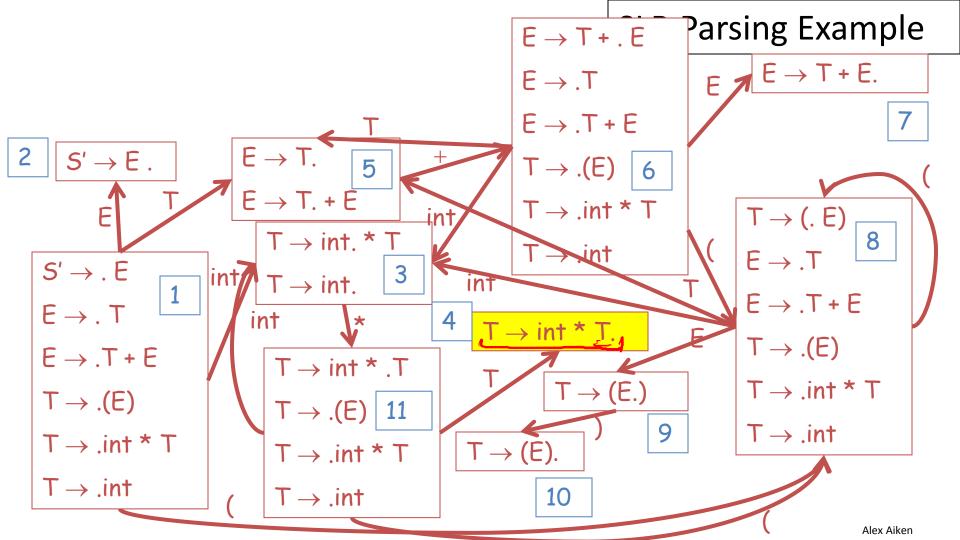


Configuration	DFA Halt State	Action
int * int\$	1	shift
int * int\$	3 * not in Follow(T)	shift
int * int\$	11	shift
int * int \$	3 \$ ∈ Follow(T)	<u>red. T→int</u>
<u>int * T \$</u>		

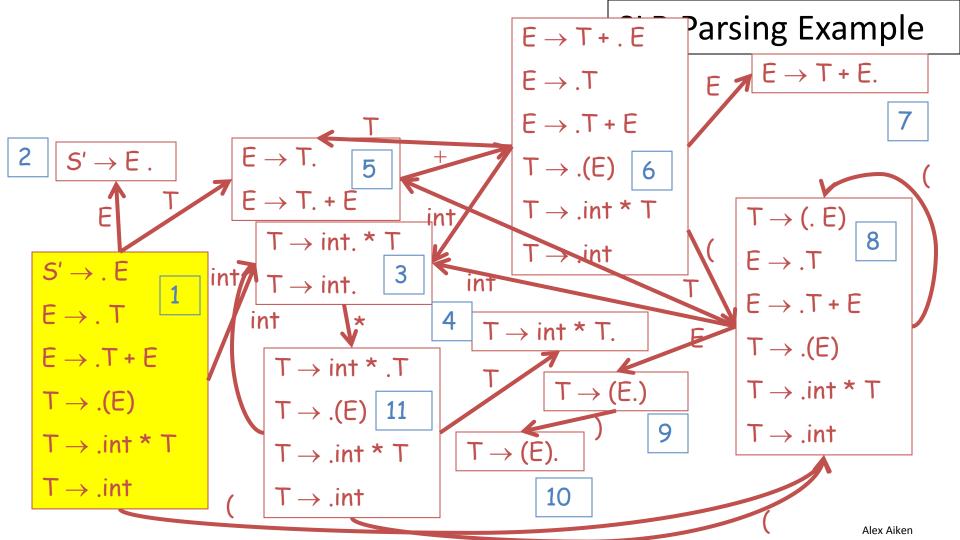


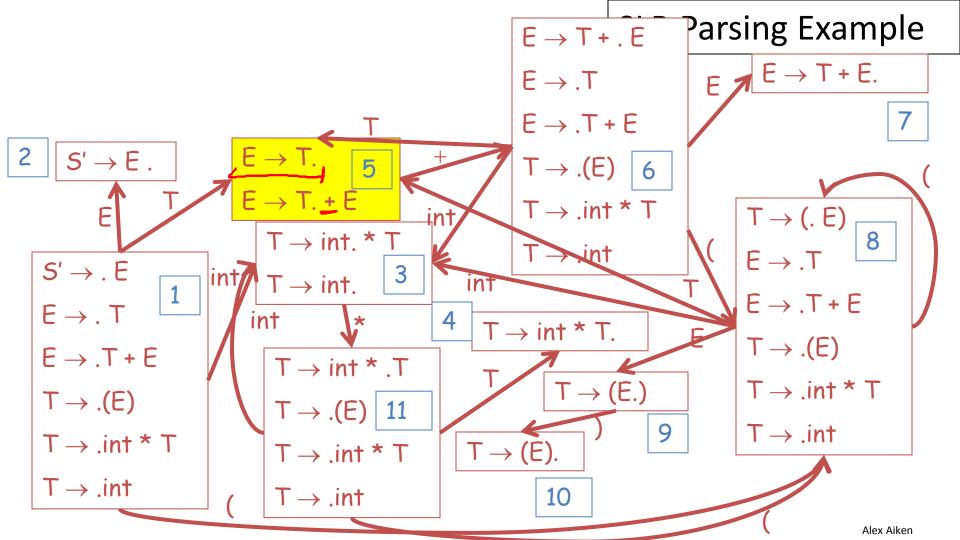




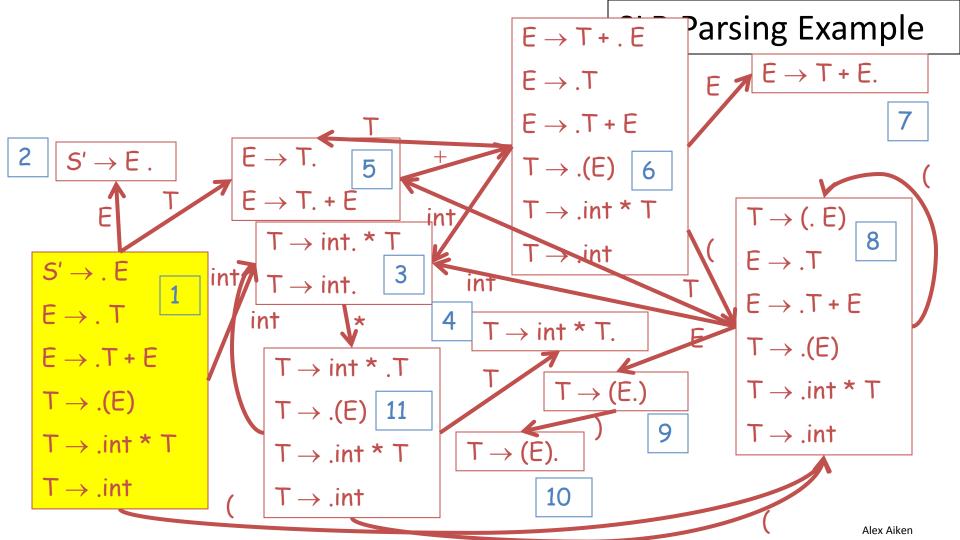


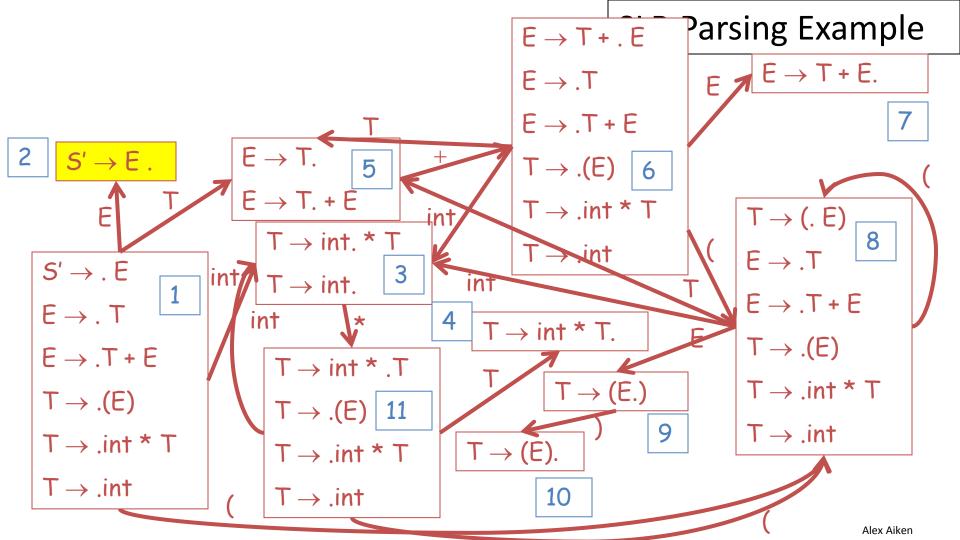
Configuration	DFA Halt State	Action
int * int\$	1	shift
int * int\$	3 * not in Follow(T)	shift
int * int\$	11	shift
int * int \$	3 \$ ∈ Follow(T)	red. T→int
int * T \$	4 \$ ∈ Follow(T)	red. T→int*T
<u>T \$</u>		



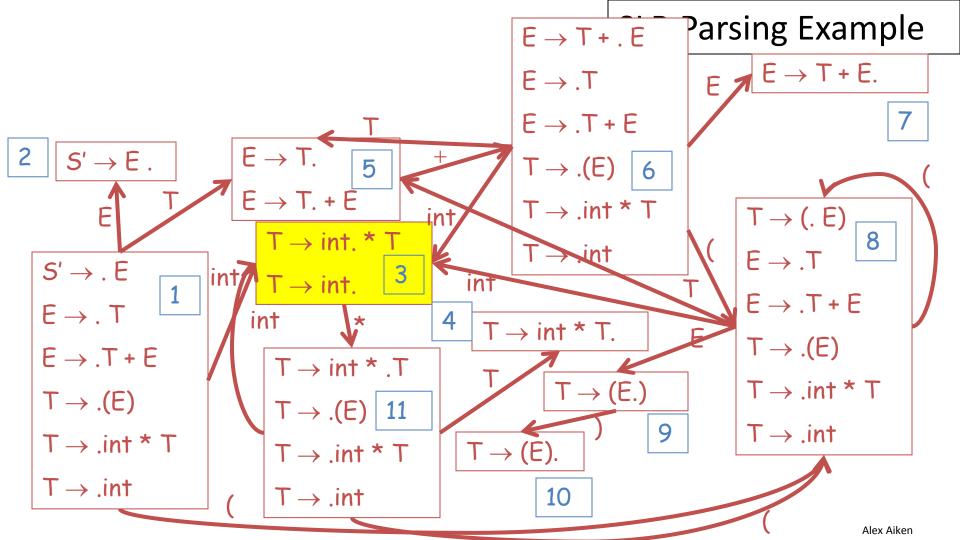


Configuration	DFA Halt State	Action
int * int\$	1	shift
int * int\$	3 * not in Follow(T)	shift
int * int\$	11	shift
int * int \$	3 \$ ∈ Follow(T)	red. T→int
int * T \$	4 \$ ∈ Follow(T)	red. T→int*T
T \$	5 \$ ∈ Follow(E)	red. E→T
<u>E</u> \$		





Configuration	DFA Halt State	Action
int * int\$	1	shift
int * int\$	3 * not in Follow(T)	shift
int * int\$	11	shift
int * int \$	3 \$ ∈ Follow(T)	red. T→int
int * T \$	4 \$ ∈ Follow(T)	red. T→int*T
T \$	5 \$ ∈ Follow(T)	red. E→T
E \$		accept



Using the DFA on the previous slide, choose the next action for the given parse state

SLR Parsing Example

Configuration	DFA Halt State
int * int + int \$	3

- shift
- \bigcirc red. T \rightarrow int
- \bigcirc red. T \rightarrow int * T
- accept

To show the automaton, click "Hide Question" ↓