

5/12 지 17일 Viable prefix is a viable stack string

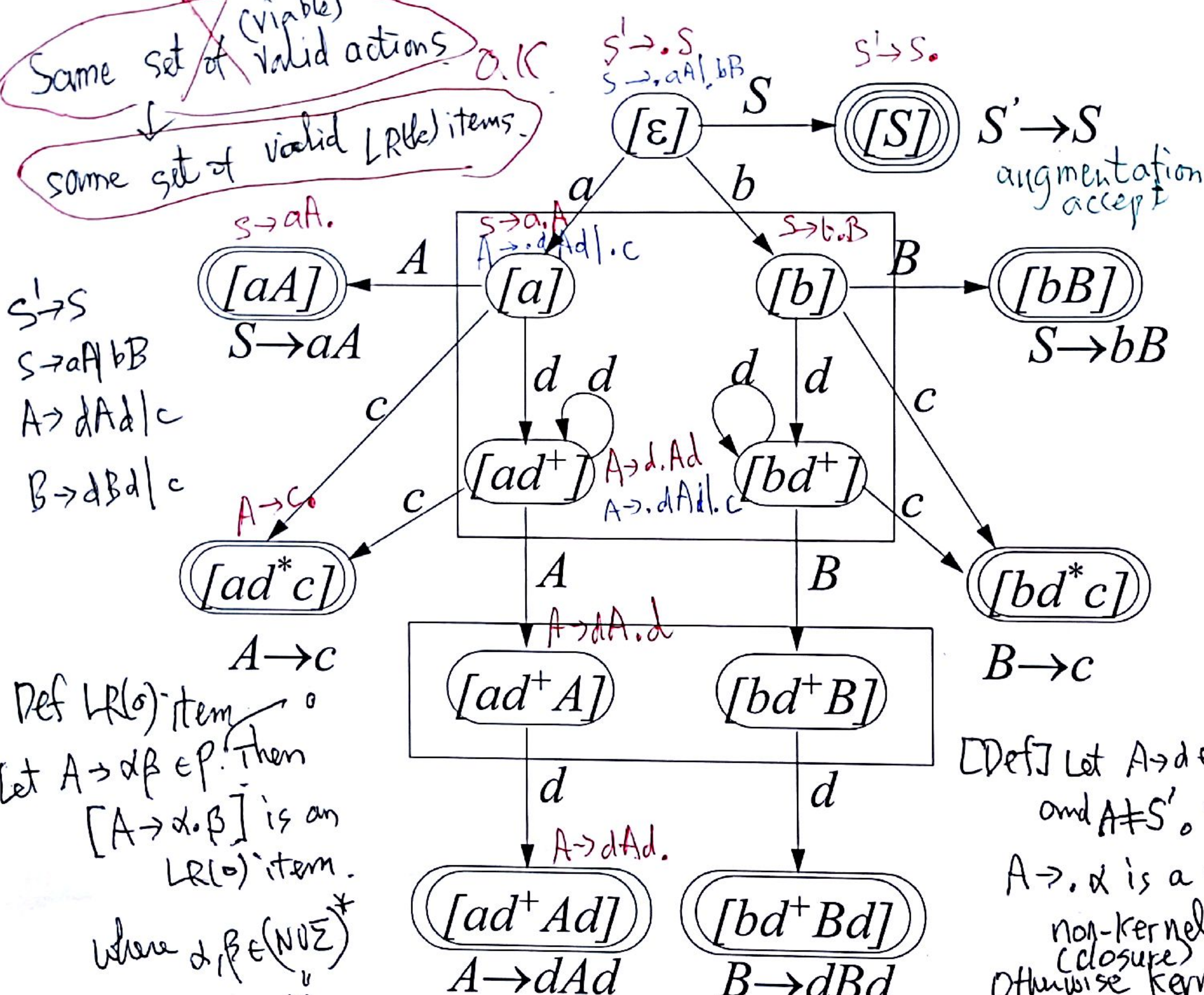
$[ad^+ | bd^+]$

$[a], [b], [ad^+], [bd^+]$

$[ad^+A | bd^+B]$

$[ad^+A], [bd^+B]$

Same set of ~~(viable)~~ valid actions. O.K.  
 ↓  
 same set of valid LR(0) items.



Def LR(0) item  
 Let  $A \rightarrow \alpha\beta \in P$ . Then  $[A \rightarrow \alpha.\beta]$  is an LR(0) item.  
 where  $\alpha, \beta \in (N \cup \Sigma)^*$

[Def] Let  $A \rightarrow d \in P$  and  $A \neq S'$ . Then  $A \rightarrow .d$  is a non-kernel item. (closure) otherwise kernel item.

Let  $A \rightarrow d \in P$ . Then Deterministic LR(0) machine pda  
 $[A \rightarrow d.]$  is a reducible item.  $\equiv$  Canonical collection of set of LR(0) items.  
 No shift-shift nor shift-reduce conflict in LR(0) parsing, but some reduce-reduce conf.