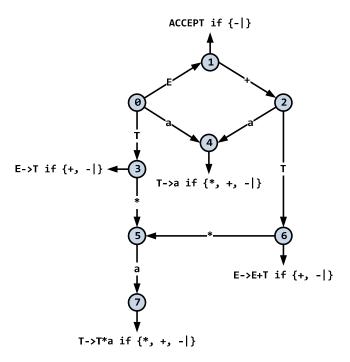
TA: Jade Cheng ICS 312

Homework Solution #18

Due Date: November 03, 2009

Parsing Homework

Question: Use the parsing machine supplied in Slide set 24 to provide a parse of the string a * a + a * a. (Remember that you always need to add on the end-marker symbol)



Answer: Step	:	Stack Contents:	Remaining Input:
:	1	Symbol: null State: 0	a * a + a * a -
	2	Symbol: a State: 0 4	* a + a * a -
	3	Symbol: T State: 0 3	* a + a * a -
	4	Symbol: T * State: 0 3 5	a + a * a -

!	5	Symbol: State:		+ a * a -
(Symbol: State:		+ a * a -
-	7	Symbol: State:		+ a * a -
8		Symbol: State:		a * a -
9		Symbol: State:		* a -
;		Symbol: State:		* a -
:			E + T * 0 1 2 6 5	a -
:	12	_	E + T * a 0 1 2 6 5 7	-1
:	13	Symbol: State:		-1
:	14	Symbol: State:	E	-1
:	15	ACCEPT		