University of Nevada, Las Vegas Computer Science 456/656 Fall 2020 Assignment 6: Due Wednesday December 2, 2020

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You are permitted to work in groups, get help from others, read books, and use the internet. Your answers must be written in a pdf file and emailed to the graudate assistant, Shekhar Singh shekhar.singh@unlv.edu by 23:59 December 2. Your file must not exceed 10 megabytes, and must print out to at most 8 pages.

Here is my construction of Example 7 of the handout "Simple LALR Parsers."

		ACTION					(GOTO	
1. $E \rightarrow x_2$		X	+	_	*	()	eof	E
2. $E \rightarrow E +_3 E_4$	0	s2		s7		s11			1
3. $E \rightarrow E_{5}E_{6}$	1		s3	s5	s9			halt	
	2		r1	r1	r1		r1	r1	
4. $E \rightarrow -7 E_8$	3	s2		s7		s11			4
5. $E \rightarrow E *_9 E_{10}$	4		r2	r2	s9		r2	r2	
6. $E \rightarrow (_{11} E_{12})_{13}$	5	s2		s7		s11			6
11 12/13	6		r3	r3	s9		r3	r3	
	7	s2		s7		s11			8
	8		r4	r4	r4		r4	r4	
	9	s2		s7		s11			10
	10		r5	r5	r5		r5	r5	
	11	s2		s7		s11			12
	12		s3	s5	s9		s13		
	13		r6	r6	r6		r6	r6	

Write a computation of this parser for the input (x + x * x) + (x * -(x - x))