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	class	CS 10C					

Assignment 5.1 [10 points]

8a	trace xy$xy						
	i	ch	aStack	stackTop	inLanguage		
	0	x	x	-	TRUE		
	1	y	x y	-	TRUE		
	2	$	x y	-	TRUE		
	3	x	x	y	FALSE		
	return not in language						
8c	trace xy$y						
	i	ch	aStack	stackTop	inLanguage		
	0	x	x	-	TRUE		
	1	y	x y	-	TRUE		
	2	$	x y	-	TRUE		
	3	y	x	y	TRUE		
	return aString is not in language because aStack is not empty						
8e	trace xx$xx						
	i	ch	aStack	stackTop	inLanguage		
	0	x	x	-	TRUE		
	1	x	x x	-	TRUE		
	2	$	x x	-	TRUE		
	3	x	x	x	TRUE		
	4	x		x	TRUE		
	return sString is in languare						
11a	a = 7, b = 3, c = 12, d = –5, e = 1.						

	evaluate a b c + −					
	i	ch	operand1	operand2	result	stack
	0	7	-	-	-	7
	1	3	-	-	-	7 3
	2	12	-	-	-	7 3 12
	3	+	3	12	15	7 15
	4	-	7	15	-8	-8
11c	evaluate a b + c − d e * +					
	i	ch	operand1	operand2	result	stack
	0	7	-	-	-	7
	1	3	-	-	-	7 3
	2	+	7	3	10	10
	3	12	-	-	-	10 12
	4	-	10	12	-2	-2
	5	-5	-	-	-	-2 -5
	6	1	-	-	-	-2 -5 1
	7	*	-5	1	-5	-2 -5
	8	+	-2	-5	-7	-7
12a	a − b + c					
	ch	aStack (bottom to top)	postfixExp			
	a		a			
	-	-	a			
	b	-	a b			
	+	+	a b -			
	c	+	a b - c			
			a b - c +	all characters done, move operators from stack to postfix		

		ch	aStack (bottom to top)	postfixExp	
12c	a / (b * c)				
		ch	aStack (bottom to top)	postfixExp	
		a		a	
		/	/	a	
		(	/ (	a	
		b	/(	a b	
		*	/(*	a b	
		c	/(*	a b c	
		)	/(	a b c *	move all operators to stack till (character
			/	a b c *	string is complete, move all operators from stack to postfixExp
				a b c * /	
12e	(a + b) * c				
		ch	aStack (bottom to top)	postfixExp	
		(	(		
		a	(	a	
		+	(+	a	
		b	(+	a b	
		)	(	a b +	move all operators from stack till (reached
				a b +	
		*	*	a b +	
		c	*	a b + c	
				a b + c *	all characters done, move operators from stack to postfix
12g	a – (b + c)				
		ch	aStack (bottom to top)	postfixExp	
		1		a	
		-	-	a	
		(	- (	a	
		b	- (	a b	

	+	- (+	a b				
	c	- (+	a b c				
	)	- (	a b c +	move all operators from stack till (reached		
		-	a b c + -	all characters done, move operators from stack to postfix		