

Just for the sake of idea if u got any mistake in it then tell me immediately please

Q1: Evaluate the following postfix expression; Write each step of evaluation by using the following table.

7 2↑ 4 3 2↑*+18 3/-

Input	op1	op2	value	stack
7				7
2				2 7
↑	7	2	49	49
4	7	2	49	4 49
3	7	2	49	3 4 49
2	7	2	49	2 3 4 49
↑	3	2	9	9 4 49
*	4	9	36	36 49
+	49	36	85	85
18	49	36	85	18 85
3	49	36	85	3 18 85
/	18	3	6	6 85
-	85	6	79	79

Q.2

Convert the following infix expression into postfix expression using stack, show your evaluation in the following tabular form.

a) $4 \uparrow 2 + (5 * 4) \uparrow 2 - 18 / 3$

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Symbol	Postfix	Stack
4	4	
↑	4	↑
2	2 4	↑
+	2 4	+ ↑
(	2 4	(+ ↑
5	5 2 4	(+ ↑
*	5 2 4	* (+ ↑
4	4 5 2 4	* (+ ↑
)	4 5 2 4	) * (+ ↑
↑	4 5 2 4	↑) * (+ ↑
2	2 4 5 2 4	↑) * (+ ↑
-	2 4 5 2 4	- ↑) * (+ ↑

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18	18 4 5 2 4	- ↑) * (+ ↑
/	18 4 5 2 4	- / ↑) * (+ ↑
3	3 18 4 5 2 4	- / ↑) * (+ ↑
	3 18 4 5 2 4 -	/ ↑) * (+ ↑
	3 18 4 5 2 4 - /	↑) * (+ ↑
	3 18 4 5 2 4 - / ↑	) * (+ ↑
	3 18 4 5 2 4 - / (↑)	* (+ ↑

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	3 18 4 5 2 4 - / ↑) *	(+ ↑
	3 18 4 5 2 4 - / ↑) * (	+ ↑
	3 18 4 5 2 4 - / ↑) * (+	↑
	3 18 4 5 2 4 - / ↑) * (+ ↑	

B) $7+(5-2)+(2*1)-(5/2)$

Symbol	Postfix	Stack
7	7	
+	7	+
(	7	(+
5	5 7	(+ 5
-	5 7	- (+ 5
2	2 5 7	- (+ 5
)	2 5 7	) - (+ 5
+	2 5 7	+) - (+ 5
(	2 5 7	(+) - (+ 5
2	2 2 5 7	(+) - (+ 5

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*	2 2 5 7	* (-) - (+
1	1 2 2 5 7	* (-) - (+
)	1 2 2 5 7	) * (-) - (+
-	1 2 2 5 7	-) * (-) - (+
(	1 2 2 5 7	(-) * (-) - (+
5	5 1 2 2 5 7	(-) * (-

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		) - (+
/	5 1 2 2 5 7	/ (-) * (-) - (+
2	2 5 1 2 2 5 7	/ (-) * (-) - (+
)	2 5 1 2 2 5 7	) / (-) * (-) - (+
	2 5 1 2 2 5 7)	/ (-) * (-) -

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		(+
	2 5 1 2 2 5 7)/	(-) * (-) - (+
	2 5 1 2 2 5 7)/(	-) * (-) - (+
	2 5 1 2 2 5 7)/(-	) * (-) - (+
	2 5 1 2 2 5 7)/(-)	* (-) - (+
	2 5 1 2 2 5 7)/(-)*	(-) - (+
	2 5 1 2 2 5 7)/(-)*	-) - (+

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	$2\ 5\ 1\ 2\ 2\ 5\ 7) / (-) * -$	) - (+
	$2\ 5\ 1\ 2\ 2\ 5\ 7) / (-) * -)$	- (+
	$2\ 5\ 1\ 2\ 2\ 5\ 7) / (-) * -) -$	(+
	$2\ 5\ 1\ 2\ 2\ 5\ 7) / (-) * -) - ($	+
	$2\ 5\ 1\ 2\ 2\ 5\ 7) / (-) * -) - (+$	