Vivian Warick

Quiz on Applications of Stack (Qo1) clements from left to we get an until operator thern into stack the operator is obter 3 encounte d Vivian Vidri two operands from stack 8 5 evaluating. c) 25 operator en countered 5 operands and evaluating 29 6 d popping => evaluating 29 29+6 pushing back Vivian Waric evaluating 35 f) 2 5 \$5 9) 5 10 Vivion Africa At 3 24 2 5 35 5 exporesion i) Value expression = ((5+8*3)+6)/7 Vivian Vidrici Vivian Ludrick

 $\sqrt{mian tudrick}$ = 10 + 2 = 812 = 3 - 1 = 2 = 3 - 1 = 2 = 3 - 1 = 2 $\frac{1}{48/12} = \frac{1}{4} = \frac{3}{4} =$ Vivian Ludrick : Infix expression: = [14]· value of the expression = 114

Ainjan Triquick

Vivian Ludrick

Viv

Vivie 0.3.0)((2+3*6)/(9-8/2)+1) * 7 = a. Putting operands in out put staining and puting operators and parentheses in the stack. Vivian Warrek epoutput string: 236 => Encountered 50 => popping element till "(" => C Output string: 236 * + Note: Since "* has more precedence than "+" placed before "+" in output string). it is Output string: 236 * + 982 = Encountered) C· =) popping till "c" -) \subset Vivian Wanex Output string: 236* +982/-1 C- out put string: 236*+982/-90 d. Encountexed (2) => popping till (2) => Encountered + with lower precedence than C '1' => pop till equal or lower precedence is vivian Warre obtained => pushing+"=> Output stoing: 236 * +9821-1 output string: 236 * + 9821-19 0. Encountered (" => pop till (") job out put string = 236 + 482/-19+ O/P stoing: 236 * + 982/-19+7= d. * End of expression => pop all => Vivian Yudrick 0/P string. 236 * +982 /- /9+7 *

Vivian Ludrick Final expression: 236 *+ 982 /- 19+7* At A Vivian Ludrick 3-b) Volue of expression out & [part a]= [9]

9.40) 3+521 (2+6-121 (9-5))* ((5+2*3)-15/(1+6)))

1000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 10000 + 100 1/1/ has more precedence thus push on At A= 52 2 0/P: 3 52 2 7 12 9 pop till () Vivion Lud 1) 3 52 27 12 9 5 -/- 523 "x ? has higher precedence than '+' thus puh "Didencountered. Therefore pop tilling" A+B= + O/P:3 52 2 7 C vivian Warick Wa Judrick

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	Nime.	121
	wick D	
	+ c mid/P: 3 52 2 712 9 5 -/- 5 mid 3 *+ 15 1	4
	- '3' => pop till 'c'	
	At C # 0/0: 5 53 3 7 /3 9 5 -/- 5 3 3 * + 15 1 4	
Vivian L	direk + Vivian Ludrick	
14.	+ Viwian	-di
		_
	- 0/P:03 52 2 7 12 9 5 -1-52 3*+	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_
	+ (5°) => pop till (°)	_
	O/P: 3 52 2 7 12 9 5 -/- 5 2 3*+ 15 1 4-	+
viviant	direct 's' = convicting the direct	
		4
	4 0/P:3 52 2 7 12 9 5 -1- 5 2	
	$3 * + 15 1 4 + / - * +$ [End of stoing \Rightarrow Dop all operator.	-
	/ End of stoing => pop all operator. + O/P: 3 52 2 7 12 9 5 -1- 5 2	
	3 * + 15 1 5 +1-*+ /+	_
	drick Final post to	
Vivian	Final post-fix expression; with 1 1 1 + 1 - * + 1+	
	3 52 2 7 12 9 5 -1- 5 2 3 *+ 15 / 4 + 1- * + 1+	141
	n) value of part p = [= 20]	_
	b) Value of past a = [4.529] Vivian Ludrick Vivian Ludrick	_
	Vivian	_
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MIN	udrick Vivian tudrick	(7)