PAEGNO: 19BCS0012 Name: Mithish.Gr Date: 10/09/2020

Problem solving-1

Oconvert the following postfix expression to infix using stack:

abctdelt-

O O O O O O						
Reading of roshif	Houck top	Expression				
	Pushed to stos" A"	A				
B	Push to tos -> "B"	TB A	2			
	Push to tos> "c"	C) B A				
+	Pop"(" and "B" perform (+) =) ((+B) > push to tos	BIEL				
d	Push "d" to tos	Bto				
•	Push e" to tos	8+8 A				
	Pop "e" & "d" Perform . Push to dlE +) tos"	BIAS	45			
	POP DIE 1: 8 C+B	(C+B) P (dIE)				
-	A-(CC+B) & (dlE)	A-((C+B) & (dE))				
			-			

Scanned by TapScanner

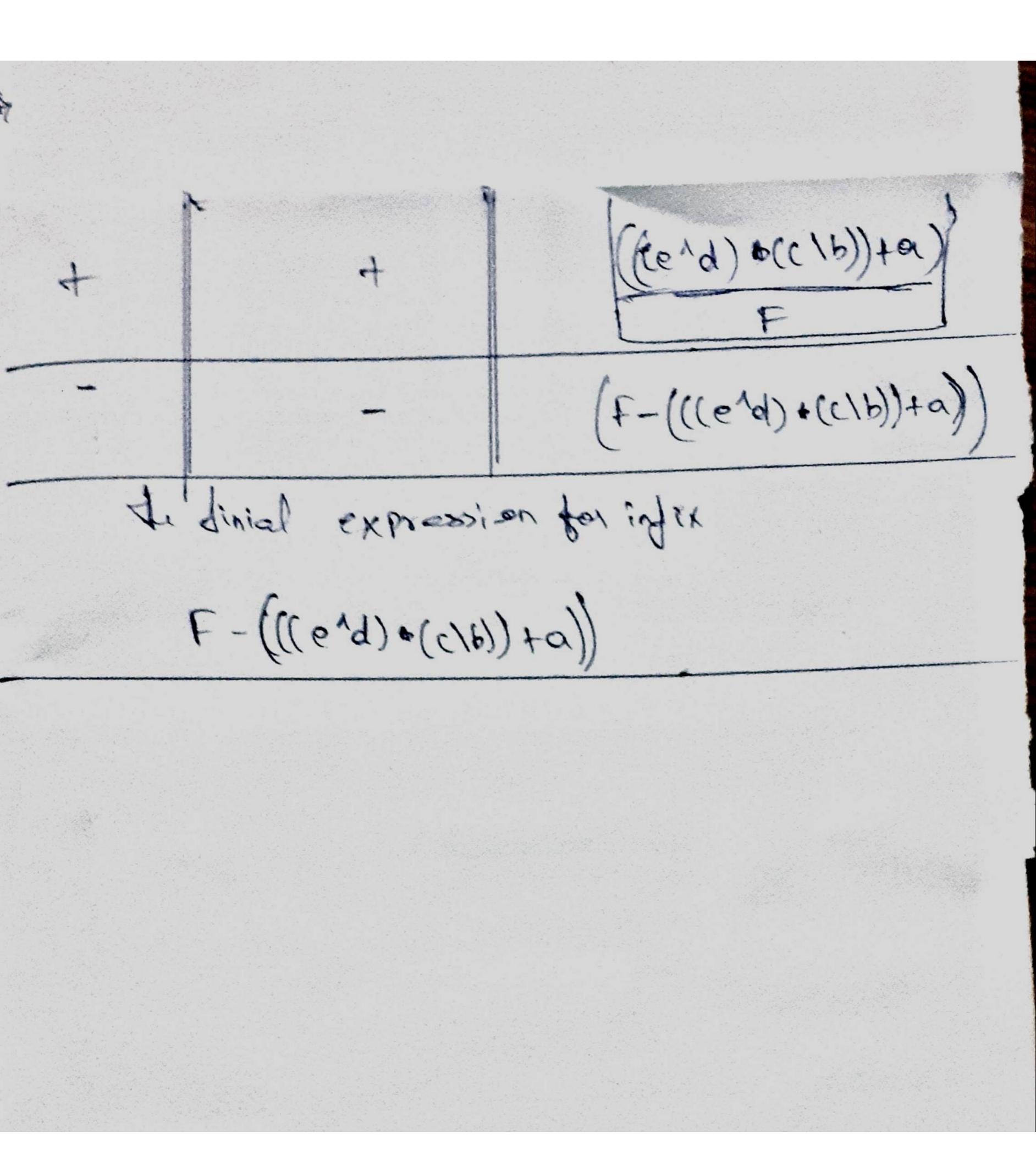
(J)(Q)			
	12 +3 * 4 5	-	
Scant symbol		Stack to P	EXpression
	1	Pust->to2	
	2	Push => \$95	121
	+	Pap (177(2)=) 3 Push to "tos"	(1+2)
	3	Push'3/fostos	13/1+2
	*	*	(1+2) 4 (3)
	4	4	11+2) (3)
	5	5	5 4 (1+2) P(3)
	*		(H2)0(3)
			(1+2) +(3)) - (4 +5)
	The Linal	result got as	
	(C1+2) \$	(3)) - (h +5)	
			Cooppod by TopSoopr

(D)(a) +*AB + CD Conversion between plitto to. Predix to indix Reverse Pagix Massien: DC & BA + + zymbol Stack for Expression Scanned D) >D Pruhed =) C puched C * (c &D) POP (&D (D+ 0) > | By Pushed B >) A " pushed A*B pushed Poplats)& (c+b)
Postorm(+) operation (A kB)+(C+B) is pushed The finial Expression for infix

(A*B)+((*D)

	DB. Predix to infix		
	-tal/bc 1ded		
	Rovers expression	_	
τ	Jedheblont	- 	
1	Reading Symbol	Stack top	Exprasia
	"J"	· J	TI :
	`e"	e	de la
	"d'	ġ	1 do
	*\\'\'		je 1d
	*C"		C rd C rd
		b	b c
		4	erd
_			C/b/ e/d
		*	(end) (c))
			(ard)a(c)b)
			d by Tan Soar

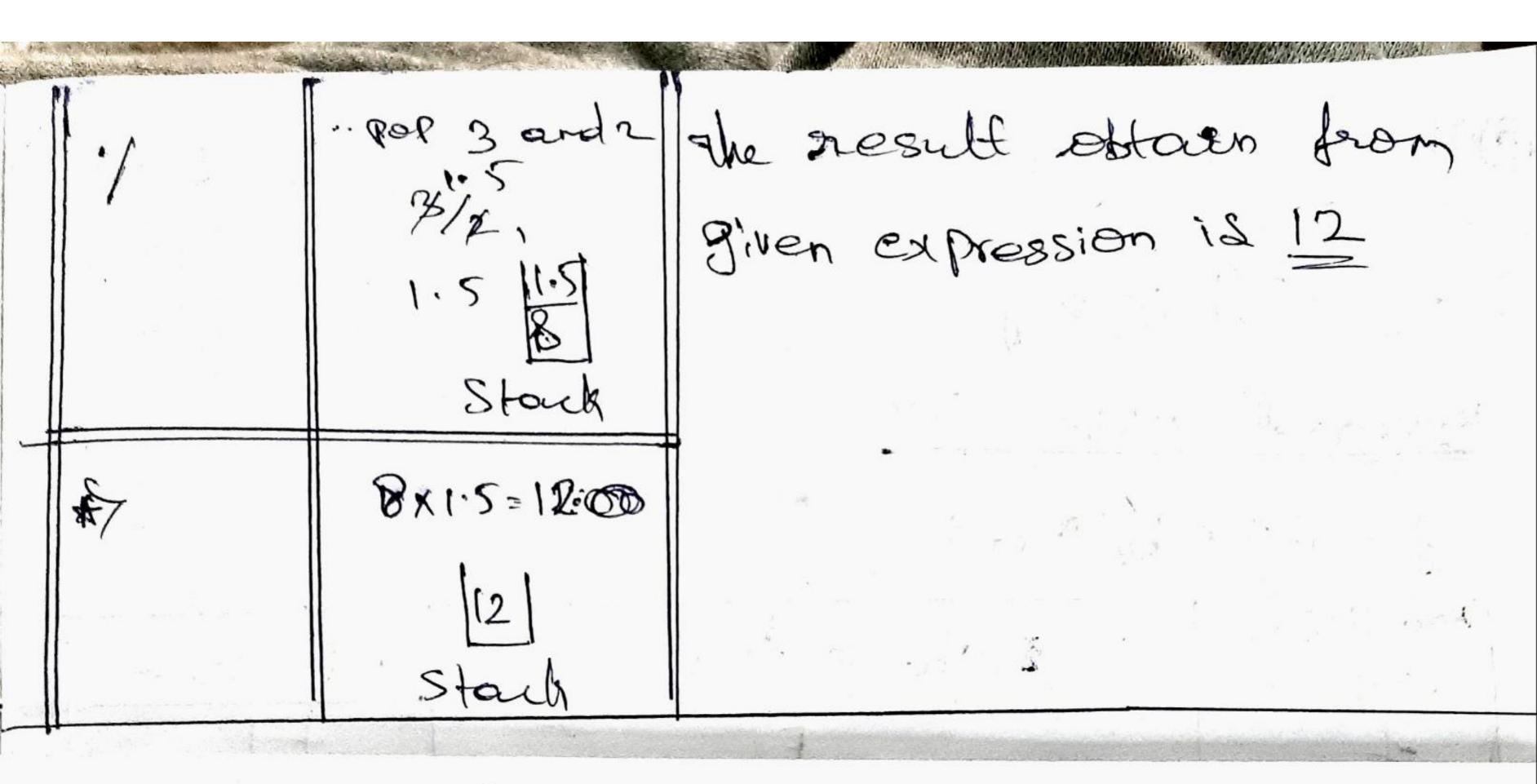
Scanned by TapScanner



Evaluate the following Postfix porefix notodion and given the output (using stack) 10 +/+12/42+35 +9 +3184 noverse the given reverse the given apression equation dedte. 48/3#9+ 53+24/21+/* 24mbol Scanned and Scanned Stock: Stack Symbol Scanned POP 3,5=3+5=8 Hack 2/2 Proped:

12/ Pushed
Into stack Hack > 2 15 946=15 - Stouck =) 1 +9*3/8h => 15 1+2=3 (Roped)

Scanned by TapScanner

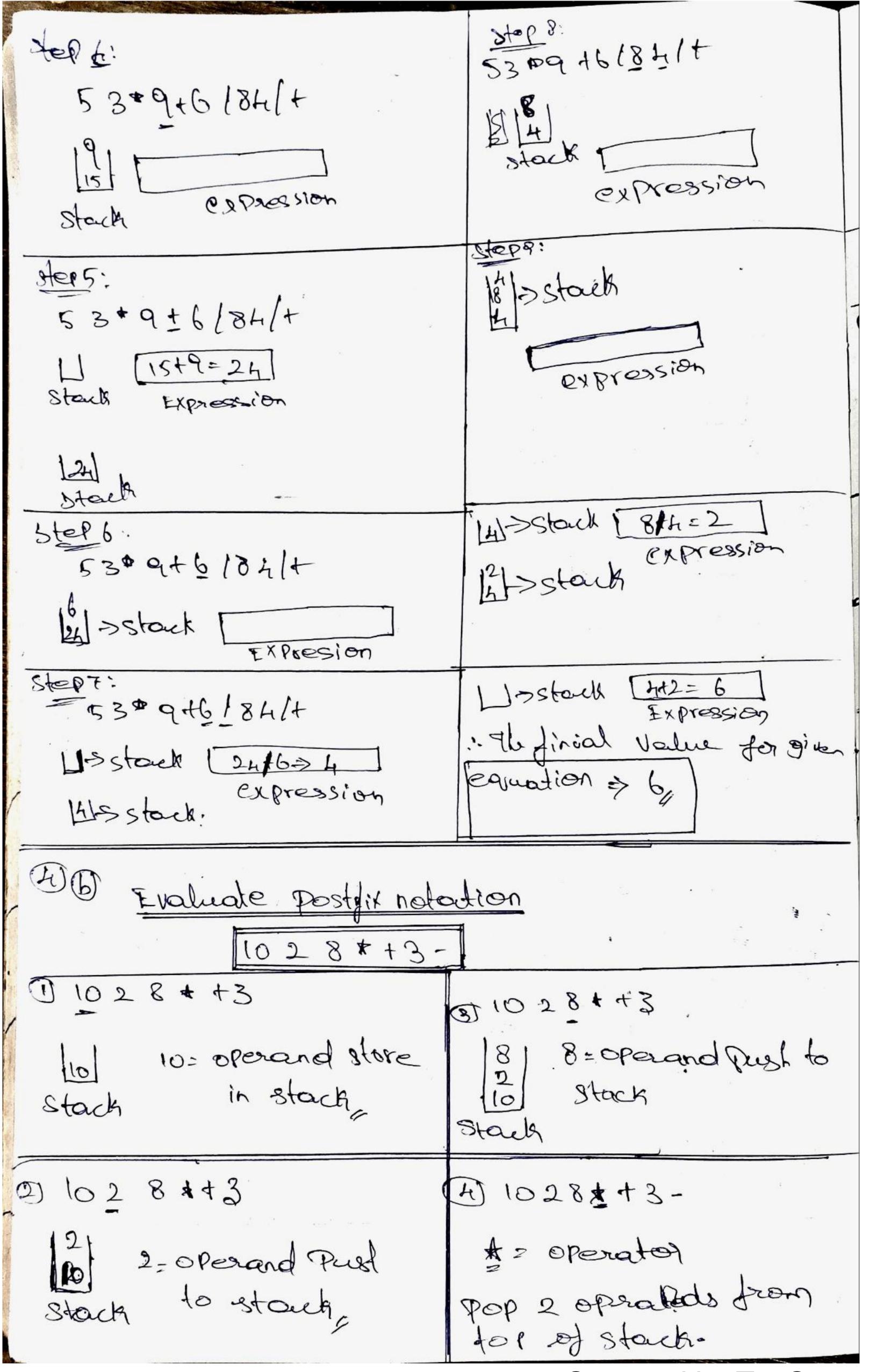


Evaluate Prefix notation

1028 + 3

[*/+12/42+35] => 12,

(A) Evaluate the following postifix notation	
(a) Evaluate the following postifix notation and give the output (using stacts).	
soln.	
Here! 53*9+61841+	
The first character occanned is h' which is	
an operand, so push it to the stock	
Stock Expression	
Hep2:	
53+9+618H1+	
The next character scanned 3' >> operand	
Push it to stack.	
3 5 Stock	
steps:	١
Next character scanned" *", which soperates so pop two operands and Perjam opera	tio
Stock Expression Prish result to stack	
15	



Scanned by TapScanner

