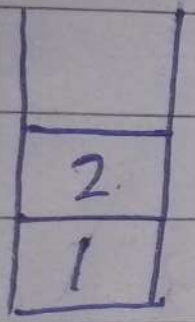
Q#1

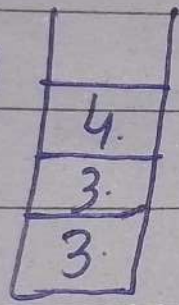
A=7 B=6 C=5 D=4 E=3 F=2 G=1.

-+-AB*C+DE+FG.

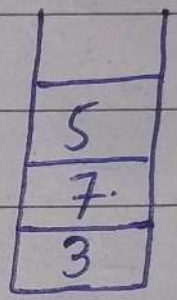
GE+ED+C*BA-+-



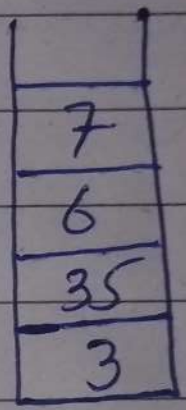
2+1=3

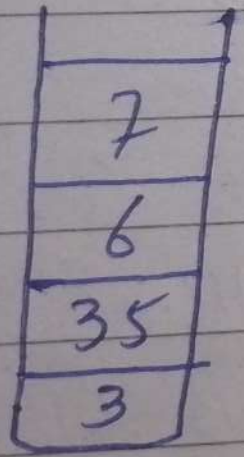


4+3=7

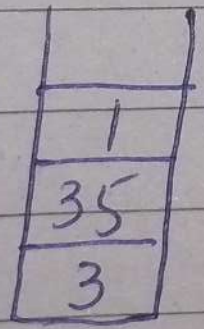


5*7=35

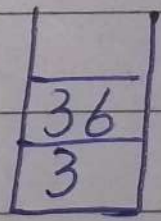




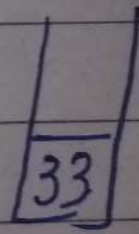
7-6=1



1+35=36



36-3=33



Q# 1.

Convert to prefix and calculate output

((A-B)+C*(D+E))-(F+G)

)G+F(-))E+D(*C+)B-A((

Input	Stack	Output
(	)	
G	)	G
+	)+	G
F	)+	GF
(	)+(	GF+
-	)+(-	GF+
)	-	GF+
)	-)	GF+
E	-))	GF+
+	-))+	GF+E
D	-))+	GF+E
(	-))+(	GF+ED
*	-))+(*	GF+ED+
C	-))+(*	GF+ED+
+	-))+(+	GF+ED+C
)	-))+	GF+ED+C*
B	-))+	GF+ED+C*
-	-))+-	GF+ED+C*B
A	-))+-	GF+ED+C*B
(	-))+-(	GF+ED+C*BA-
(	-))+-(	GF+ED+C*BA-+
		GF+ED+C*BA-+-

Reverse

-+-AB*C+DE+FG

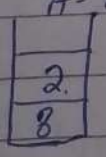
Q#2

Convert to postfix and calculate

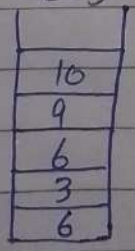
A-B-C*(D+E/F-G)-H

Input	Stack	Output
A		A
-	-	A
B	-	AB
-	-	AB-
C	-	AB-C
*	-*	AB-C
(	-*(	AB-C
D	-*(	AB-CD
+	-*(+	AB-CD
E	-*(+	AB-CDE
/	-*(+/	AB-CDE
F	-*(+/	AB-CDEF
-	-*(-	AB-CDEF/+
G	-*(-	AB-CDEF/+G
)	-*	AB-CDEF/+G-
-	-	AB-CDEF/+G-*-
H	-	AB-CDEF/+G-*-H
		AB-CDEF/+G-*-H-

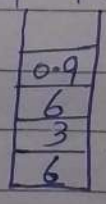
A=8 B=2 C=3 D=6 E=9 F=10 G=11 H=13



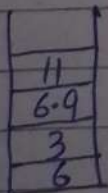
8-2=6



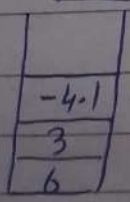
9/10=0.9



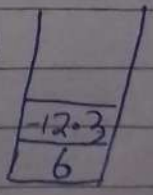
6+0.9=6.9



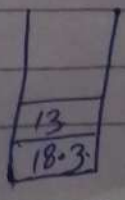
6.9-11=-4.1



-4.1*3=-12.3



6-(-12.3)=18.3



18.3-13
=5.3