Pseudocode or Algorithm of each stack operation.

PUSH Operation

PUSH (S, TOP, X)
Step – 1: [Check for Stack overflow]
If TOP $\geq$ N then
Write ('Stack Overflow')
Return

Step – 2 : [Increase value of TOP]
TOP <- TOP + 1

Step – 3 : [Insert element into stack]
S[Top] <- X

Step – 4: [Finished]
Return

POP Operation

POP(S, TOP)

Step – 1: [Check for Stack Underflow]
If TOP == 0 then
Write ('Stack Underflow')
Return

Step – 2 : [Decrease value of TOP]
TOP <- TOP – 1

Step – 3 : [Return top element of stack]
Return S[Top + 1]

PEEP Operation

PEEP(S, TOP, i)

Step – 1: [Check for Stack Underflow]
If TOP- i +1 < 0 then
Write ('Stack Underflow For PEEP')
Return

Step – 2 : [Return ith element from top of stack]
Return S [Top – i + 1]

CHANGE Operation

Change(S, TOP, i, X)

Step – 1: [Check for Stack Underflow]
If TOP- i +1 < 0 then
Write ('Stack Underflow on Change')
Return

Step – 2 : [Change ith element from top of stack]
S[Top – i + 1] <- X

Step – 3 : [Finished]
Return

PUSH : To insert an item into the stack
POP : To remove an item from a stack.
PEEP : To find ith element from stack.
CHANGE : To change ith element from stack.