ALGORITHM OF STACK OPERATION

PUSH (INSERT) OPERATION ALGO.

```
Step-1  [check for static overflow]
    if  top >=size  then
            o/p"stack is overflow"
    exit

Step-2  [increments the top values by one]
    top=top+1

Step-3  [perform insertion]
    stack[top]=data

Step-4  exit
```

POP (DELETE) OPERATION ALGO.

```
Step-1  [check the stack is empty]
        if  top = 0  then
                o/p”stack is under flow”
        exit

Step-2  [remove the top information]
        data=stack [top]
        top=top-1

Step-3  [return the format information of the stack]

Step-4  exit
```

PEEP (SEARCH) OPERATION ALGO.

```
Step-1  [check the stack is empty]
        if  top-loc+1 < 0  then
                o/p”stack is overflow”
        exit

Step-2  [check max position of top]
        if loc > top
                o/p”the max position of top”,top

Step-3  if  i == loc
                return (peep element)

Step-4  exit
```

DISPLAY( ) OPERATION ALGO.

```
Step-1  [check the stack is empty]
        if  top = 0  then
                  o/p"stack is under flow"
        exit

Step-2  [Display values]
        repeat step-3 for i=top To i>=0

Step-3  print stack[i]

Step-4   exit
```

UPDATE OPERATION ALGO.

```
Step-1  [check the stack is empty]
        if  top-loc+1 < 0  then
                o/p"stack is empty"
        exit

Step-2  [check max position of top]
        if loc > top
                o/p"the max position of top",top

Step-3  [change the element]
        if(loc == i)
                (1)stack[top]=val
                (2)top=loc
                (3)return val

Step-4  exit
```

THANK YOU

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