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class Evaluate:
   def __init__(self,capacity):
       self.array=[]
       self.top=-1
       self.capacity=capacity
   def isempty(self):
       return len(self.array)==0
   def isfull(self):
       return len(self.array)==self.capacity
   def push(self,ele):
       if self.isfull():
           print("Stack is Full")
       else:
           self.array.append(ele)
           print("element pushed into the stack",ele)
   def pop(self):
       if self.isempty():
           print("Stack is Empty")
       else:
           ele=self.array.pop()
           print("element poped from the stack",ele)
           return ele
   def evaluatePostfix(self,exp):
       for i in exp:
           if i.isdigit():
               self.push(i)
           else:
               val1=self.pop()
               val2=self.pop()
               self.push(str(eval(val2 + i + val1)))
       return int(self.pop())
exp="231*+9-"
print("expression to evaluate is =",exp)
obj=Evaluate(len(exp))
result=obj.evaluatePostfix(exp)
print("value of {0} is {1} ".format(exp,result))
expression to evaluate is = 231*+9-
element pushed into the stack 2
element pushed into the stack 3
element pushed into the stack 1
element poped from the stack 1
```

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element poped from the stack 3 element pushed into the stack 3 element poped from the stack 3 element poped from the stack 2 element pushed into the stack 5 element pushed into the stack 9 element poped from the stack 9 element poped from the stack 5 element poped from the stack 5 element poped from the stack -4 element poped from the stack -4 value of 231*+9- is -4
```