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IDB2

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```
class Stack:
   self.items.append(item)
      if not self.isempty():
         return self.items.pop()
      if not self.isempty():
S.push(5)
S.push(3)
```

```
print("Lenght:",len(S.items))
print("Pop:",S.pop())
print("Stack Empty:",S.isempty())
print("Pop:",S.pop())
print("Stack Empty:",S.isempty())
print("Pop:",S.pop())
S.push(7)
S.push(9)
print("Top Element:",S.top())
S.push(4)
print("Lenght:",len(S.items))
print("Pop:",S.pop())
S.push(6)
S.push(8)
print("Pop:",S.pop())
S.push(5)
S.push(3)
```

```
Lenght: 2
Pop: 3
Stack Empty: False
Pop: 5
Stack Empty: True
Pop: Stack is empty
Top Element: 9
Lenght: 3
Pop: 4
Pop: 8
Pop: 3
Top Element: 9
Lenght: 7
Pop: 4
Pop: 8
```

```
def push(val):
     stack.append(val)
def pop():
    if len(stack) == 0:
        return None
    return stack.pop()
 push(5)
 push(3)
print(pop())
 push(2)
push(8)
print(pop())
print(pop())
 push(9)
push(1)
print(pop())
 push(7)
 push(6)
print(pop())
print(pop())
push(4)
print(pop())
print(pop())
 print(pop())
         8
         6
         7
         9
OUTPUT
```

OUTPUTS

```
Lenght: 2
Pop: 3
Stack Empty: False
Pop: 5
Stack Empty: True
Pop: Stack is empty
Top Element: 9
Lenght: 3
Pop: 4
Pop: 8
Pop: 3
Top Element: 9
Lenght: 7
Pop: 4
Pop: 8
3
8
2
1
6
7
9
5
```