

```

Object subclass: #Stack
  instanceVariableNames: 'count elements'
  classVariableNames: 'MaxDepth'
  poolDictionaries: ''
  category: 'Example'
!

!Stack class methodsFor: 'creation'!
initialize
  "sets default depth"
  MaxDepth <- 100

new
  "builds a new stack of default depth"
  ^ super new init: MaxDepth
!
new: desiredDepth
  "builds a new stack of given depth"
  ^ super new init: desiredDepth
!!

```

```

!Stack methodsFor: 'initialization'!
init: depth
  count <- 0.
  elements <- Array new: depth
!!

!Stack methodsFor: 'access'!
empty
  ^ count = 0
!
push: elem
  [count >= elements size]
    ifTrue: [self error: 'Stack overflow']
    ifFalse: [count <- count + 1.
               elements at: count put: elem]
!
pop |top|
  [self empty]
    ifTrue: [self error: 'Stack is empty']
    ifFalse: [top <- elements at: count.
               count <- count - 1.
               ^ top]
!!

```