stack.push(gc: GrammaticalConstruct)

pre-conditions:
   None (true)

post-conditions:
   top = gc
   top.next = top@pre
   if (gc.isToken() = true)
      tokenNearestTop = gc
   else
      tokenNearestTop = tokenNearestTop@pre

stack.pop()

pre-conditions:
   isEmpty() = false   //Receiver (stack) is not empty

post-conditions:
   top = (top@pre).next
   if ((top@pre.isToken() = true)
      tokenNearestTop = (tokenNearestTop@pre).nextToken
   else
      tokenNearestTop = tokenNearestTop@pre
   top@pre.data was returned