

ADT Stack		
Stack = {values [] = <value1, value2, ..., valuen>, size= <size>}		
{inv: PriorityQueue.size >=-1}		
Primitives Operations:		
• Create Stack:		-> Stack
• push:	Stack x Value	-> Stack
• size:		-> Integer
• peek:		-> Value
• pop:		-> Value

Create Stack:
"It creates a new Stack"
{Pre: Stack == null}
{Post: Stack = Values [] = {null1, null2, ..., null16}, size=0}

push:
"It inserts a new value"
{Pre: Stack != null}
{Post: Stack = Values [] = {value ₁ = input Value, value ₂ = value ₁ , ..., value _{i-1} = value _i }, size=size+1}

peek:
"it allows have a view of the first element without extract it"
{Pre: Stack != null, size>=1}
{Post: true}

size:
"returns the size of the stack"
{Pre: Stack != null}
{Post: true}

Pop:
"returns and remove the first element of the stack"
{Pre: Stack!= null, size>=1}
{Post: stack= Values [] = {values ₁ = values ₂ , ..., values _i = values _{i+1} }, size=size-1}