

{inv: Top will always be the element to get. Top is the last input element}

Name	Operation type	Input	Output
customerBasket	Creator		customerBasket
push	Modifier	Game	customerBasket
pop Analyzer			Game

# customerBasket ():

"creates a new customerBasket with no games"

{Pre: TRUE}

{Post: customerBasket = null}

# push (Game game):

"Inserts a new element and sets it as top"

{Pre: customerBasket is created}

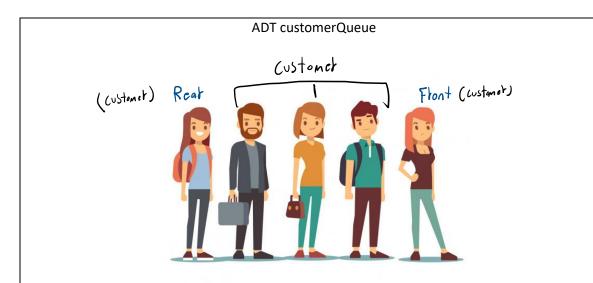
{Post: customerBasket = <other games>...game, top= game}

# pop ():

"Returns the game that was top

{Pre: customerBasket must have at least one game}

{Post: game = top, customerBasket = <other games> V customerBasket = null}



{inv: The first customer to enter will be the front and will be the first to leave. When this happens, the customer who has entered immediately after will become the front.}

Name	Operation type	Input	Output
customerQueue	customerQueue Creator		customerQueue
offer	Modifier	customer	customerQueue
poll	Modifier/Analyzer		customer

customerQueue ():

"Creates a new customerQueue with no customers"

{Pre: TRUE}

{Post: customerQueue = null}

offer (Customer newCustomer):

"Inserts a new element"

{Pre: CustomerQueue is created}

{Post: CustomerQueue = newCustomer V CustomerQueue= <Other customers>...newCustomer,

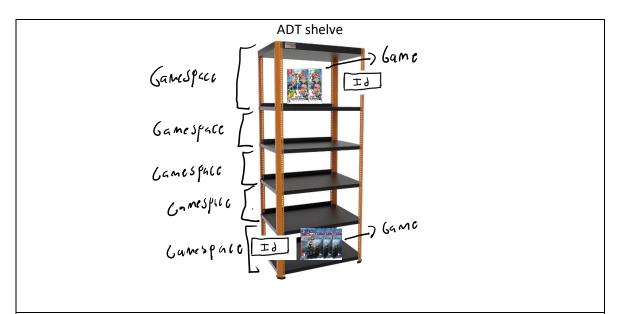
rear = newCustomer}

## poll ():

"Returns the customer that was front"

{Pre: customerQueue t must have at least one customer}

{Post: customer = front, customerQueue = null V customerQueue = <Other customers – front> }



<Inv: For each gameSpace there is an id that indicates which games can go in it. >

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	Name	Operation type	Input	Output	
	shelve	Creator		shelve	
	insert	Modifier	game	shelve	
	search	Analyzer	id	game	
	Delete Modifier		id	shelve	

## shelve (int m):

"Creates a new shelve with m gamespaces but no games"

{Pre: TRUE}

{Post: shelve = null}

# insert(Id id, Game newGame):

"Inserts a new game for a gamespace"

{Pre: shelve is initialized}

{Post: A game is added to the gamespace with the specified id }

## search (Id id):

"Returns a game of the gamespace with the specified id"

{Pre: shelve is initialized}

{Post: returns the requested game }

# delete (Id id):

"Deletes a game of the gamespace with the specified id"

{Pre: shelve is initialized}

{Post: Deletes the requested game }