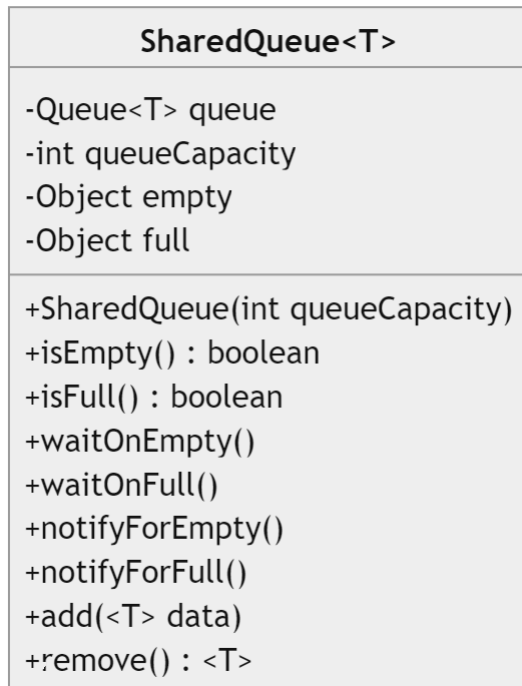
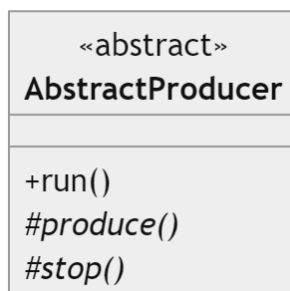


# UML class diagram

## SharedQueue



## AbstractProducer



# AbstractConsumer

«abstract» <b>AbstractConsumer</b>
+run() #consume() #stop()

# Order

<b>Order</b>
-int number -State state
+Order(int number) +getNumber() : int +getState() : String +printState() +updateState() : boolean

«enumeration» <b>State</b>
<u>+State PENDING</u> <u>+State COOKING</u> <u>+State COOKED</u> <u>+State DELIVERING</u> <u>+State COMPLETED</u>

# Customer

<b>Customers</b>
-SharedQueue<Order> orderQueue -boolean isRunning -Random random -int SLEEP_TIME
+Customers(SharedQueue<Order> orderQueue) +produce() +stop()

# Pizzaiolo

Pizzaiolo
-SharedQueue<Order> orderQueue -SharedQueue<Order> deliveryQueue -boolean isRunning -Random random -int SLEEP_TIME
+Pizzaiolo(SharedQueue<Order> orderQueue, SharedQueue<Order> deliveryQueue) +produce() +stop()

# Deliverer

Deliverer
-SharedQueue<Order> deliveryQueue -boolean isRunning -Random random -int SLEEP_TIME
+Deliverer(SharedQueue<Order> deliveryQueue) +produce() +stop()

# PizzeriaConfigurator

PizzeriaConfigurator
<ul style="list-style-type: none"><li>-int queueCapacity</li><li>-int nPizzaiolos</li><li>-int nDeliverers</li><li>-int[] deliverersCapacity</li><li>-Gson gson</li></ul>
<ul style="list-style-type: none"><li>+PizzeriaConfigurator()</li><li>+PizzeriaConfigurator(int queueCapacity, int nPizzaiolos, int nDeliverers, int[] deliverersCapacity)</li><li>+getQueueCapacity() : int</li><li>+getNPizzaiolos() : int</li><li>+getNDeliverers() : int</li><li>+getDeliverersCapacity() : int[]</li><li>+serialize(Writer writer)</li><li>+deserialize(Reader reader)</li></ul>

# Pizzeria

Pizzeria
<ul style="list-style-type: none"><li>-Customers customers</li><li>-List&lt;Pizzaiolo&gt; pizzaiolos</li><li>-List&lt;Deliverer&gt; deliverers</li><li>-SharedQueue&lt;Order&gt; orderQueue</li><li>-SharedQueue&lt;Order&gt; deliveryQueue</li><li>-int SLEEP_TIME</li></ul>
<ul style="list-style-type: none"><li>+Pizzeria(PizzeriaConfigurator pizzeriaConfigurator)</li><li>+start()</li><li>+stop()</li></ul>

## Class diagram

