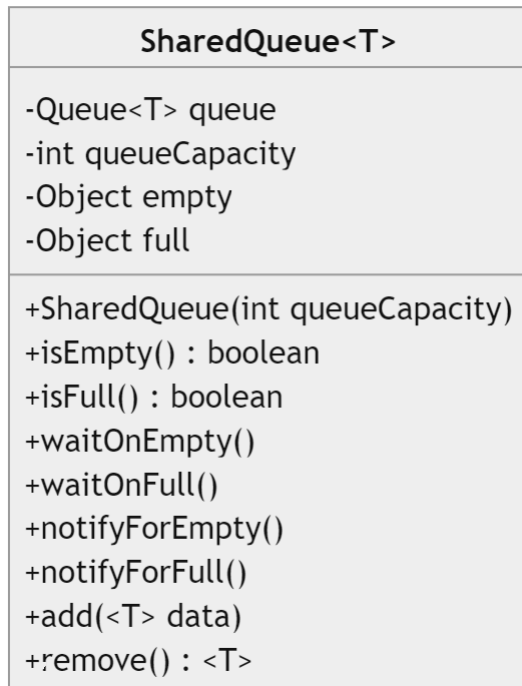
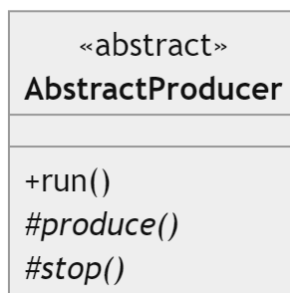


UML class diagram

SharedQueue



AbstractProducer



AbstractConsumer

«abstract» AbstractConsumer
+run() #consume() #stop()

Order

Order
-int number -int deliveryTime -State state
+Order(int number, int deliveryTime) +getNumber() : int +getDeliveryTime() : int +getState() : String +printState() +updateState() : boolean

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

Customer

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

Pizzaiolo

Pizzaiolo
<ul style="list-style-type: none">-SharedQueue<Order> orderQueue-SharedQueue<Order> deliveryQueue-int cookTime-boolean isRunning
<ul style="list-style-type: none">+Pizzaiolo(SharedQueue<Order> orderQueue, SharedQueue<Order> deliveryQueue, int cookTime)+produce()+stop()

Deliverer

Deliverer
<ul style="list-style-type: none">-SharedQueue<Order> deliveryQueue-int bagCapacity-boolean isRunning-Random random-int SLEEP_TIME
<ul style="list-style-type: none">+Deliverer(SharedQueue<Order> deliveryQueue, int bagCapacity)+produce()+stop()

PizzeriaConfigurator

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

Pizzeria

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

Class diagram

