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bookorder.c

Our book order program uses multi threading to process the various orders it receives to its customers. First the producer thread reads the orders placed, in these orders it finds out which category the book belongs to. According to the category, the producer sends the book order information in a shared queue between the producer and the consumer thread for that specific genre. If the consumer is using the queue, then the producer will wait. After the order is placed in the queue the thread for the genre consumer takes the book and finds the right customer to process it for. It makes sure no other consumer thread is dealing with the customer. Then it takes the information of the customer and sees if the order is successful or is rejected. Then it is placed to the respectful list, for the output. The output traverses through the list of customers and prints out all relevant data.