

1. The first function that my system will implement is to make an order. The function will first ask if the customer has a membership with the bookstore. If not, the function will ask the customer how many DVDs, CDs, and books the customer would like to purchase. The function will then create a new order given this information, and it will resize the inventory accordingly. The program will then calculate the total cost by multiplying the quantity of each item by the getPrice methods. The function will then tell the customer how much it costs and then thank them for their purchase. If the customer is a member, it will ask for their ID number, followed by how many DVDs, CDs, and books. The function will then create a new order given this information, and it will resize the inventory accordingly. The program will then calculate the total cost by multiplying the quantity of each item by the getPrice methods. The function will then tell the customer how much it costs and call upon the paymentMethod method and the addPayment method. The paymentMethod method will ask the customer how they would like to pay for their order, and then save that payment for future use. The addPayment method will save the customers purchase total to their total purchase amount. The program will then thank the customer for their purchase.
2. The second function will be to register a new member. The function will first ask the customer for their name, before calling on the addCustomer method. The addCustomer method will first ask the customer if they would like to become a premium member. It will then tell the customer their ID number and ask them if they would like to pay for their membership now if they asked for the premium membership. The method will end by incrementing the next customer number so that the next member will have a unique ID.
3. The third function is for the store management to adjust the inventory of the store. The function will ask the manager how many DVDs, books, and CDs they would like to add to the inventory. The function then calls on the addToInventory method to add these items to the inventory for each item. The function will end by printing out the updated inventory.