public class Order {

// ArrayList of BillableItem objects

private List billables;

// Date and time expected represented as a Date object and and integer representing minutes

private Date orderDate;

private int estimatedTime;

// State represented as an integer (either ordered 0, preparing 1, complete 2)

private int orderstatus;

// Reference to Invoice Object (to which the order is billed represented as a String

private String InvoiceNumber;

/\* Getters and setters for

\* the billables attribute.

\* @precondition: the relevant

\* Order has to exist.

\* @postcondition: billables

\* is set or retrieved.

\*/

public void setBillables(ArrayList<Billables> billablesList) {…}

public int getNumberofBillables(){…}

/\* Getters and setters for

\* the orderDate attribute.

\*

\* @precondition: the relevant

\* Order has to exist.

\* @postcondition: orderDate

\* is set or retrieved.

\*/

public void setOrderDate(){…}

public String getEstimatedOrderTime(){…}

/\* Getters and setters for

\* the orderStatus attribute.

\*

\*

\* @precondition: the relevant

\* Order has to exist.

\* @postcondition: orderStatus

\* is set or retrieved.

\*/

public void setOrderStatus(){…}

public String getOrderStatus(){…}

/\* Getters and setters for

\* the InvoiceNumber attribute.

\*

\*

\* @precondition: the relevant

\* Order has to exist.

\* @postcondition: InvoiceNumber

\* is set or retrieved.

\*/

public void setInvoiceReference(String invoice) {…}

public String getInvoiceReference(){…}

}

public class RoomServiceOrder extends Order{

// RoomNumber represented as an integer

private int roomNumber;

/\* Getters and setters for

\* the roomNumber attribute.

\*

\*

\* @precondition: the relevant

\* RoomServiceOrder has to exist.

\* @postcondition: roomNumber

\* is set or retrieved.

\*/

public void setRoomNumber(int number) {…}

public int getRoomNumber(){…}

}

public class TableServiceOrder extends Order{

// tableNumber represented as an integer

private int tableNumber;

/\* Getters and setters for

\* the tableNumber attribute.

\*

\*

\* @precondition: the relevant

\* TableServiceOrder has to exist.

\* @postcondition: tableNumber

\* is set or retrieved.

\*/

public void setTableNumber(int number) {…}

public int getTableNumber(){…}

public class CateredMealOrder extends Order {

// RoomName represented as an String

private String RoomName;

/\* Getters and setters for

\* the roomName attribute.

\*

\* @precondition: the relevant

\* CateredMealOrder has to exist.

\* @postcondition: roomName

\* is set or retrieved.

\*/

public void setRoomName(String name) {…}

public void getRoomName(){…}

public class MaintenanceOrder extends Order {

// Description represented as a String

// RoomName represented as a String

private String Description;

private String RoomName;

/\* Getters and setters for

\* the Description attribute.

\*

\*

\* @precondition: the relevant

\* MaintenanceOrder has to exist.

\* @postcondition: Description

\* is set or retrieved.

\*/

public void setDescription(String description{…}

public String getDescription(){…}

/\* Getters and setters for

\* the roomName attribute.

\*

\*

\* @precondition: the relevant

\* MaintenanceOrder has to exist.

\* @postcondition: roomName

\* is set or retrieved.

\*/

public void setRoomName(String name) {…}

public void getRoomName(){…}

}