**Manage Billing**

Get Prices

Get Choice

Perform Choice

**Get Prices**

Get standardMealCost from file

Get deluxeMealCost from file

Get banquetRoom1Cost from file

Get banquetRoom2Cost from file

Get banquetRoom3Cost from file

Get banquetRoom4Cost from file

**Get Choice**

Display “What would you like to do: Generate Bill [1] or Change Prices [2]? ” to user

Get userChoice from user

**Perform Choice**

When userChoice is 1

Generate Bill

When userChoice is 2

Update Billing

**Generate Bill**

Get Meal Type

Get Banquet Room Choice

Get Number of Meals

Get Deposit Amount

Calculate Food Cost

Calculate Banquet Room Cost

Calculate Food Fees

Calculate Total Bill

Calculate Discount

Calculate Balance Due

Display Bill

**Get Meal Type**

Display “Enter meal type: Standard Meal [S] or Deluxe Meal [D] “ to user

Get mealChoice from user

**Get Banquet Room Choice**

Display “Enter banquet room choice: Room [A], [B], [C], or [D] “ to user

Get banquetRoomChoice from user

**Get Number of Meals**

Display “Enter number of meals: “ to user

Get numMeals from user

**Get Deposit Amount**

Display “Enter deposit amount: “ to user

Get depositAmount from user

**Calculate Food Cost**

When mealChoice is S

Set mealCost to standardMealCost

When mealChoice is D

Set mealCost to deluxeMealCost

Set mealSubCost to mealCost \* numMeals

**Calculate Banquet Room Cost**

When banquetRoomChoice is A

Set banquetRoomCost to banquetRoom1Cost

When banquetRoomChoice is B

Set banquetRoomCost to banquetRoom2Cost

When banquetRoomChoice is C

Set banquetRoomCost to banquetRoom3Cost

When banquetRoomChoice is D

Set banquetRoomCost to banquetRoom4Cost

**Calculate Food Fees**

Set foodTaxAndTip to mealSubCost \* 0.25

**Calculate Total Bill**

Set totalBill to mealSubCost + banquetRoomCost + foodTaxAndTip

**Calculate Discount**

When totalBill < 500

Set discountRate to 0.04

When totalBill >= 500 and 900 >= totalBill

Set discountRate to 0.05

When totalBill > 900

Set discountRate to 0.06

Set totalDiscount to totalBill \* discountRate

**Calculate Balance Due**

Set balanceDue to totalBill - depositAmount - totalDiscount

**Display Bill**

Display “MIRACLE CATERING SERVICES” to user

Display “When you get a GREAT meal, it’s a MIRACLE.” to user

Display “BILL for SERVICES” to user

Display “Total food: “, mealSubCost to user

Display “Tax and tip: “, “0.25”, foodTaxAndTip to user

Display “Room rental fee: “, banquetRoomCost to user

Display “Total: “, totalBill to user

Display “Discount if bill is paid” to user

Display “within 10 days: ”, discountRate, totalDiscount to user

Display “Deposit: “, depositAmount to user

Display “Balance due: “, balanceDue to user

**Update Billing**

Get New Prices

Update Billing File

**Get New Prices**

Display “Enter new standard meal cost (“, standardMealCost, “)” to user

Get standardMealCost from user

Display “Enter new deluxe meal cost (“, deluxeMealCost, “)” to user

Get deluxeMealCost from user

Display “Enter new banquet room A rental cost (“, banquetRoom1Cost, “)” to user

Get banquetRoom1Cost from user

Display “Enter new banquet room B rental cost (“, banquetRoom2Cost, “)” to user

Get banquetRoom2Cost from user

Display “Enter new banquet room C rental cost (“, banquetRoom3Cost, “)” to user

Get banquetRoom3Cost from user

Display “Enter new banquet room D rental cost (“, banquetRoom4Cost, “)” to user

Get banquetRoom4Cost from user

**Update Billing File**

Store standardMealCost to file

Store deluxeMealCost to file

Store banquetRoom1Cost to file

Store banquetRoom2Cost to file

Store banquetRoom3Cost to file

Store banquetRoom4Cost to file