## **Online Food Delivery Service Pseudocode**

```
//below is the bag interface that will be implemented by the program
public interface BagInterface<T> {
  public int getCurrentSize();
               //this method will retrieve the current number of entries in the bag
  public boolean add(T newEntry); //this method will allow users to add a new entry to the bag
  public T[] toArray(); //this method will allow users to retrieve all the entries that are in the bag
}
//below is the class that is used to define and create the FoodItem objects that will be ordered
through the delivery service
public class FoodItem {
       private String name;
       private double price;
       //constructor class for the object
       public FoodItem (String name, double price) {
               this.name = name;
               this.price = price;
       }
```

```
public String getName() {
         return this.name;
       }
       public double getPrice() {
         return this.price;
       }
       @Override
       public String toString() {
       return this.name + " " + this.price;
       }
}
//below is the class that will be implementing the BagInterface
public final class FoodBag<T> implements BagInterface<T> {
       private final T[] bag;
       private int numberOfEntries;
       private static final int DEFAULT CAPACITY = 25;
       public FoodBag() {
              this(DEFAULT_CAPACITY);
```

//the get moethods

}

public FoodBag(int capacity) {

@SuppressWarnings("unchecked")

```
T[] foodBag = (T[]) new Object[DEFAULT_CAPACITY];
               bag = \underline{tempBag};
               numberOfEntries = 0;
       }
       //below are what will override the bag interface's initial methods
       @Override
       public boolean add(T newEntry) {
          //will check if the user's bag is full, and if not, this will add a new entry to their bag.
       @Override
       public T[] toArray() {
          //will retrieve all the items in the bag.
       @Override
       public int getCurrentSize() {
          //will retrieve current size of the bag
               return 0;
       private boolean isArrayFull() {
          //used to check if array is full
       }
//below is the demo class that executes the bag
public class BagDemo {
       public static void main(String[] args) {
               BagInterface<FoodItem> adtBag = new FoodBag<>();
```

```
*It determines how many items will fit in the bag.
        *Once I decide how many items I want in the array, I will change x to that
       *number.
        *I will then repeat Food[0] = new FoodItem("", $.$$) for x amount of times.
        *" " and $.$$ will also be changed to the actual name and price of each item */
       FoodItem[] Food = new FoodItem[x];
       Food[0] = new FoodItem(" ", \S.$$);
       // each '.' represents a space for a possible food element in the array
       addFoods (adtBag, Food);
}
private static void addFoods (BagInterface<FoodItem> adtBag, FoodItem[] content) {
/*as long as the bag is not full, this method will add the food items designated above to
the bag it will then call the displayBag method to display the contents of the bag.*/
}
private static void displayBag(BagInterface<FoodItem> adtBag) {
  //this method will display all the food items in the bag to the user's screen.
}
```

}

/\*below code declares and initializes the fixed food item array.