## 02. Bike Rental Service

class BikeRentalService {

//TODO...

}

Write a **class BikeRentalService,** which supports the described functionality below.

**Functionality**

**Constructor**

Should have these **3** properties:

* **name - string**
* **location - string**
* **availableBikes - empty array**

**At the initialization** of the **BikeRentalService** class, the **constructor** accepts the **name** and **location.**

**Hint:** You can add more properties to help you finish the task.

### addBikes (bikes)

This method adds bikes to the bike rental service. The method takes 1 argument: bikes (array of strings).

* **Every element** into this array is information about the bike in the format:

**"{brand} {quantity} {price}"**

* They are separated by a dash.

**Example: ["Mountain Bike-5-150", "City Bike-10-100", "Electric Bike-3-200"...]**

* If the **brand** of the current bike is already present in **availableBikes** array, add the new quantity to the old one and update the old price per bike **only if** the current one is **higher**.
* Otherwise, add the bike, with properties: **{brand, quantity, price}** to the **availableBikes** array.
* In all cases, you must **finally return a string** in the following format:

**`**Successfully added {brand1}, {brand2}, …{brandN}**`**

**Note**: When returning the **string**, keep in mind that the different **brands** of **bikes** **must** be:

* **Unique** -for instance**:**

**"Successfully added Mountain Bike, City Bike, Electric Bike"** - is a correctly returned string

**"Successfully added Mountain Bike, City Bike, Mountain Bike" -** is not a correctly returned string

**Separated** by **comma** and **space (, )**

### rentBikes(selectedBikes)

* With this method, users can rent bikes from the rental service. The method takes 1 argument: **selectedBikes (array of strings).**
* **Every element** in this array is information about the rented bikes in the format:

**"{brand} {quantity}"**

* They are separated by a dash.

**Example: ["Mountain Bike-5", "City Bike-10", "Electric Bike-3"...]**

* For each element of the array **selectedBikes**, check:
* **Note:** It is crucial to **return** one of the strings ("Some of the bikes are unavailable..." or "Enjoy your ride! You must pay the following amount $${totalPrice.toFixed(2)}.") after the function goes through every element of the **selectedBikes** array and **updates** the bike quantities that match the criteria.
  + If the **brand** of the current bike is not present in the **availableBikes** array, or if the brand is present but the **quantity** selected by the customer exceeds the available quantity recorded in the **availableBikes** array, the following message should be **returned**:

**"Some of the bikes are unavailable or low on quantity in the bike rental service."**

* + Otherwise, if the above conditions are not met, you have to **calculate** the **price** for the given bike by **multiplying** the price per bike for the **given brand** by the **quantity** desired by the user. Then reduce the quantity recorded in the **availableBikes** array.
  + **Note:** **Add** a **variable** that will calculate the **total price** obtained from the individual prices of **each** bike in the array and **return** this string in the following format:

` **Enjoy your ride! You must pay the following amount $${totalPrice.toFixed(2)}.`**

**Note:** The **totalPrice** must be rounded to the second decimal point and **before** the **price** must have a **dollar sign** (**$**).

### returnBikes (returnedBikes)

This method allows users to return bikes to the rental service. The method takes 1 argument: **returnedBikes** (array of strings).

* Every element in this array is information about the returned bikes in the format: **"{brand} {quantity}"**
* They are separated by a dash.

**Example: ["Mountain Bike-5", "City Bike-10", "Electric Bike-3"...]**

* For each element of the array **returnedBikes**, check:
* **Note:** It is crucial to **return** one of the strings ("Some of the returned bikes are not from our selection" or "Thank you for returning!") after the function goes through every element of the **returnedBikes** array and **updates** the bike quantities that match the criteria.
  + If the brand of the current bike is not present in **availableBikes** array, the following message should be **returned**:

**"Some of the returned bikes are not from our selection."**

* + Otherwise, increase the quantity recorded in the array **availableBikes** with the quantity obtained as a parameter, and **return:**

**"Thank you for returning!"**

### revision ()

* This method **returns** **all** available **bikes** in the store in the following format:
* The first line shows the following message:

**"Available bikes:"**

* On the new line, display information about each bike sorted in **ascending** order of **price and must have a dollar sign ($)**:

**`{brand} quantity:{quantity} price:${price}`**

* The last line shows the following message:

**`The name of the bike rental service is {name}, and the location is {location}.`**

### Example

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| **Input 1** |
| const rentalService = new BikeRentalService("MyBikes", "CityCenter");  console.log(rentalService.addBikes(["Mountain Bike-5-150", "City Bike-10-100", "Electric Bike-3-200", "Electric Bike-8-400"])); |

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| --- |
| **Output 1** |
| Successfully added Mountain Bike, City Bike, Electric Bike |

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| **Input 2** |
| const rentalService = new BikeRentalService("MyBikes", "CityCenter");  console.log(rentalService.addBikes(["Mountain Bike-5-150", "City Bike-10-100", "Electric Bike-3-200", "Electric Bike-8-400"]));  console.log(rentalService.rentBikes(["Mountain Bike-2", "City Bike-5"])); |

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| **Output 2** |
| **Successfully added Mountain Bike, City Bike, Electric Bike**  **Enjoy your ride! You must pay the following amount $800.00.** |

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| **Input 3** |
| const rentalService = new BikeRentalService("MyBikes", "CityCenter");  console.log(rentalService.addBikes(["Mountain Bike-5-150", "City Bike-10-100", "Electric Bike-3-200", "Electric Bike-8-400"]));  console.log(rentalService.rentBikes(["Mountain Bike-2", "City Bike-5", "Stunt Bike-5"]));  console.log(rentalService.returnBikes(["Mountain Bike-1", "City Bike-3", "Race Bike-5"]));  console.log(rentalService.revision()); |

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| **Output 3** |
| **Successfully added Mountain Bike, City Bike, Electric Bike**  **Some of the bikes are unavailable or low on quantity in the bike rental service.**  **Some of the returned bikes are not from our selection.**  **Available bikes:**  **City Bike quantity:8 price:$100**  **Mountain Bike quantity: 4 price:$150**  **Electric Bike quantity:11 price:$400**  **The name of the bike rental service is MyBikes, and the location is CityCenter.** |

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| --- |
| **Input 4** |
| const rentalService = new BikeRentalService("MyBikes", "CityCenter");  console.log(rentalService.addBikes(["Mountain Bike-5-150", "City Bike-10-100", "Electric Bike-3-200", "Electric Bike-8-400"]));  console.log(rentalService.rentBikes(["Mountain Bike-5", "City Bike-5"]));  console.log(rentalService.returnBikes(["Mountain Bike-1", "City Bike-3"]));  console.log(rentalService.revision()); |

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| --- |
| **Output 4** |
| **Successfully added Mountain Bike, City Bike, Electric Bike**  **Enjoy your ride! You must pay the following amount $1250.00.**  **Thank you for returning!**  **Available bikes:**  **City Bike quantity:8 price:$100**  **Mountain Bike quantity:1 price:$150**  **Electric Bike quantity:11 price:$400**  **The name of the bike rental service is MyBikes, and the location is CityCenter.** |