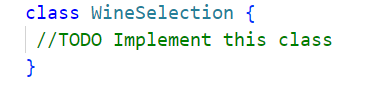
## JS Advanced Regular Exam – 18 Feb 2023

## Problem 2. Wine Selection



Write a class **WineSelection**, which implements the following functionality:

**Functionality**

**Constructor**

Should have these **3** properties:

* **space –** Number
* **wines –** Array (empty)
* **bill** - number

**At the initialization of the WineSelection class,** the **constructor** accepts the **space.**

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

**reserveABottle (wineName, wineType, price)**

The **wineName** and **wineType** are of type **string** and **price** is type **number**.

* If there's **not enough space in the cellar** for the bottle, **throw an Error**:

**"Not enough space in the cellar."**

* Otherwise, this function should add the wine, with the properties: **wineName**, **wineType**, **price**, **paid**: **default false**, to the wines array and **return**:

**"You reserved a bottle of {wineName} {wineType} wine."**

**payWineBottle( wineName, price )**

The **wineName** is type **string** and **price** is type **number**.

* If the wine is not found, **throw an Error**:

**"{wineName} is not in the cellar."**

* If the wine has already paid, **throw an Error**:

**"{wineName} has already been paid."**

* Otherwise, this function set **paid** to **true** on the found wine, add **price** of the bottleto **bill** and **return**:

**"You bought a {wineName} for a {price}$."**

**openBottle(wineName)**

* If the wine is **not found**, throw **an Error:**

**"The wine, you're looking for, is not found."**

* If the wine **hasn't paid**, throw **an Error**:

**"{wineName} need to be paid before open the bottle."**

* Otherwise, this function should **remove** the wine from the array and **return**:

**"You drank a bottle of {wineName}."**

**cellarRevision(wineType)**

This **method** can be called **with one parameter** or **without** any.

If **no** parameter is provided, the method should **return** the full information of the cellar

* At the first line:

**"You have space for { emptySlots } bottles more."**

* At the second line:

**"You paid {bill}$ for the wine."**

* On the next lines, display information about each wine, **sorted alphabetically ascending**, by their **wineName**:

**"{wineName} > {wineType} - {Has Paid / Not Paid}."**

If the method is called with a parameter for **wineType**:

* **Return** only the information about the wine from the given **wineType**:

**"{wineName} > {wineType} - {Has Paid / Not Paid}."**

* If there is **no such wine type** found, **throw an Error**:

**"There is no {wineType} in the cellar."**

## Example

|  |
| --- |
| **Input 1** |
| const selection = new WineSelection(2)  console.log(selection.reserveABottle('Sauvignon Blanc Marlborough', 'White', 50));  console.log(selection.reserveABottle('Cabernet Sauvignon Napa Valley', 'Red', 120));  console.log(selection.reserveABottle('Bodegas Godelia Mencía', 'Rose', 144)); |

|  |
| --- |
| **Output 1** |
| You reserved a bottle of Sauvignon Blanc Marlborough White wine.  You reserved a bottle of Cabernet Sauvignon Napa Valley Red wine.  Uncaught Error Error: Not enough space in the cellar. |

|  |
| --- |
| **Input 2** |
| const selection = new WineSelection(2)  selection.reserveABottle('Sauvignon Blanc Marlborough', 'White',50);  console.log(selection.payWineBottle('Sauvignon Blanc Marlborough', 120));  console.log(selection.payWineBottle('Bodegas Godelia Mencía', 144)); |

|  |
| --- |
| **Output 2** |
| You bought a Sauvignon Blanc Marlborough for a 120$.  Uncaught Error Error: Bodegas Godelia Mencía is not in the cellar. |

|  |
| --- |
| **Input 3** |
| const selection = new WineSelection(2)  selection.reserveABottle('Sauvignon Blanc Marlborough', 'White', 50);  selection.reserveABottle('Cabernet Sauvignon Napa Valley', 'Red', 120);  selection.payWineBottle('Sauvignon Blanc Marlborough', 50);  console.log(selection.openBottle('Sauvignon Blanc Marlborough'));  console.log(selection.openBottle('Cabernet Sauvignon Napa Valley')); |

|  |
| --- |
| **Output 3** |
| You drank a bottle of Sauvignon Blanc Marlborough.  Uncaught Error Error: Cabernet Sauvignon Napa Valley need to be paid before open the bottle. |

|  |
| --- |
| **Input 4** |
| const selection = new WineSelection(2)  console.log(selection.reserveABottle('Bodegas Godelia Mencía', 'Rose', 144));  console.log(selection.cellarRevision('Rose')); |

|  |
| --- |
| **Output 4** |
| You reserved a bottle of Bodegas Godelia Mencía Rose wine.  Bodegas Godelia Mencía > Rose - Not Paid. |

|  |
| --- |
| **Input 5** |
| const selection = new WineSelection(5)  selection.reserveABottle('Bodegas Godelia Mencía', 'Rose', 144);  selection.payWineBottle('Bodegas Godelia Mencía', 144);  selection.reserveABottle('Sauvignon Blanc Marlborough', 'White', 50);  selection.reserveABottle('Cabernet Sauvignon Napa Valley', 'Red', 120);  console.log(selection.cellarRevision()); |

|  |
| --- |
| **Output 5** |
| You have space for 2 bottles more.  You paid 144$ for the wine.  Bodegas Godelia Mencía > Rose - Has Paid.  Cabernet Sauvignon Napa Valley > Red - Not Paid.  Sauvignon Blanc Marlborough > White - Not Paid. |