JS Advanced Regular Exam – 19 Feb 2022

Problem 2. Wine Selection

```
class WineSelection {
//TODO Implement this class
```

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 bottle to 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'));

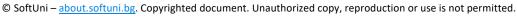
Output 4

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.















