## JS Advanced Retake Exam

## Problem 2. OnlineShop

class OnlineShop {

//TODO Implement this class

}

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

**Functionality**

**Constructor**

Should have these **3** properties:

* **warehouseSpace –** Number
* **products –** Array (empty)
* **sales –** Array (empty)

**At the initialization of the OnlineShop class,** the **constructor** accepts the **warehouseSpace.**

**loadingStore(product, quantity, spaceRequired)**

The **product** is of type **string**, while the **spaceRequired** and **quantity** are of type **number**.

* If there is **not enough space in the warehouse** for the new product, **throw an Error**:

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

* Otherwise, this function should **add** the product with the properties: **product** and **quantity** to the products array, **reduce** the **space available** with the **space required** by the product, and **return**:

"**The {product} has been successfully delivered in the warehouse.**"

**NOTE: Product names will be unique.**

**quantityCheck(product, minimalQuantity)**

The **quantity** is of type **number**.

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

"**There is no {product} in the warehouse.**"

* If the received **minimalQuantity** is **less** than or **equal** to 0, **throw an Error**:

"**The quantity cannot be zero or negative.**"

* If the received **minimalQuantity** is **less** or **equal** to the product quantity in the warehouse, **return:**

"**You have enough from product {product}.**"

* Otherwise, this function should **replace** the value of **product quantity** with a **minimalQuantity** value and **return:**

"**You added {difference} more from the {product} products.**"

* **Difference** is the number between the minimum quantity and the product quantity.

**sellProduct(product)**

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

"**There is no {product} in the warehouse.**"

* Otherwise, this function should **decrement** by 1 the product quantity from the product in the products array, add it to **sales** with properties {**product}** and **{1}** for **quantity,** and **return:**

"**The {product} has been successfully sold.**"

**revision()**

This method should **return** the complete information about the shop:

* If nothing is sold, throw **an Error:**

**"There are no sales today!"**

* Otherwise, **return** how many sales you have**:**

"**You sold {sales} products today!**"

* On the second line:

"**Products in the warehouse:**"

* On the new line, display information about each product in the warehouse:

**"{product}-{quantity} more left"**

## Examples

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| **Input 1** |
| const myOnlineShop = new OnlineShop(500)  console.log(myOnlineShop.loadingStore('headphones', 10, 200));  console.log(myOnlineShop.loadingStore('laptop', 5, 200));  console.log(myOnlineShop.loadingStore('TV', 40, 500)); |

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| **Output 1** |
| The headphones has been successfully delivered in the warehouse.  The laptop has been successfully delivered in the warehouse.  Uncaught Error Error: Not enough space in the warehouse. |

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| **Input 2** |
| const myOnlineShop = new OnlineShop(500)  console.log(myOnlineShop.loadingStore('headphones', 10, 200));  console.log(myOnlineShop.loadingStore('laptop', 5, 200));  console.log(myOnlineShop.quantityCheck('headphones', 10));  console.log(myOnlineShop.quantityCheck('laptop', 10));  console.log(myOnlineShop.quantityCheck('TV', 40,)); |

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| **Output 2** |
| The headphones has been successfully delivered in the warehouse.  The laptop has been successfully delivered in the warehouse.  You have enough from product headphones.  You added 5 more from the laptop products.  Uncaught Error Error: There is no TV in the warehouse. |

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| **Input 3** |
| const myOnlineShop = new OnlineShop(500)  console.log(myOnlineShop.loadingStore('headphones', 10, 200));  console.log(myOnlineShop.loadingStore('laptop', 5, 200));  console.log(myOnlineShop.quantityCheck('headphones', 10));  console.log(myOnlineShop.quantityCheck('laptop', 10));  console.log(myOnlineShop.sellProduct('headphones'));  console.log(myOnlineShop.sellProduct('laptop'));  console.log(myOnlineShop.sellProduct('keyboard')); |

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| **Output 3** |
| The headphones has been successfully delivered in the warehouse.  The laptop has been successfully delivered in the warehouse.  You have enough from product headphones.  You added 5 more from the laptop products.  The headphones has been successfully sold.  The laptop has been successfully sold.  Uncaught Error Error: There is no keyboard in the warehouse. |

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| **Input 4** |
| const myOnlineShop = new OnlineShop(500)  console.log(myOnlineShop.loadingStore('headphones', 10, 200));  console.log(myOnlineShop.loadingStore('laptop', 5, 200));  console.log(myOnlineShop.quantityCheck('headphones', 10));  console.log(myOnlineShop.quantityCheck('laptop', 10));  console.log(myOnlineShop.sellProduct('headphones'));  console.log(myOnlineShop.sellProduct('laptop'));  console.log(myOnlineShop.revision()); |

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| **Output 4** |
| The headphones has been successfully delivered in the warehouse.  The laptop has been successfully delivered in the warehouse.  You have enough from product headphones.  You added 5 more from the laptop products.  The headphones has been successfully sold.  The laptop has been successfully sold.  You sold 2 products today!  Products in the warehouse:  headphones-9 more left  laptop-9 more left |