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SEARCH

Interface LoadTask.VendingMachineLoaderCallback

All Known Implementing Classes:

<u>VendingMachineConsole</u>

Enclosing class:

LoadTask

public static interface LoadTask.VendingMachineLoaderCallback Callback interface for load completion.

Method Summary

All MethodsInstance MethodsAbstract Methods
Modifier and Type
Method
Description
void
onLoadComplete (VendingMachine machine)
Called when the load is complete.

Method Details

onLoadComplete

void onLoadComplete(<u>VendingMachine</u> machine) Called when the load is complete. Parameters:

machine - the loaded vending machine

Method Summary 2

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SEARCH

Class LoadTask

java.lang.Object

LoadTask

All Implemented Interfaces:

<u>Runnable</u>

public class LoadTask extends <u>Object</u> implements <u>Runnable</u> A task that loads the state of a vending machine from a file.

Class LoadTask 3

Nested Class Summary

Nested Classes
Modifier and Type
Class
Description
static interface
LoadTask.VendingMachineLoaderCallback
Callback interface for load completion.

Constructor Summary

Constructors
Constructor
Description
LoadTask (String filePath,
LoadTask.VendingMachineLoaderCallback callback)
Constructs a new LoadTask.

Method Summary

All MethodsInstance MethodsConcrete Methods Modifier and Type Method Description void run()

Methods inherited from class java.lang. Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait

Constructor Details

LoadTask

public LoadTask(<u>String</u> filePath, <u>LoadTask.VendingMachineLoaderCallback</u> callback) Constructs a new LoadTask.
Parameters:

filePath - the path of the file to load the state from
callback - the callback to invoke when the load is complete

Method Details

Load Task. Vending Machine Loader Callback

• run

public void run()
Specified by:
 run in interface Runnable

run 5

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SEARCH

Class SaveTask

java.lang.Object

SaveTask

All Implemented Interfaces:

<u>Runnable</u>

public class SaveTask extends <u>Object</u> implements <u>Runnable</u> A task that saves the state of a vending machine to a file.

Class SaveTask 6

Constructor Summary

Constructors
Constructor
Description
SaveTask (String filePath, VendingMachine machine)
Constructs a new SaveTask.

Method Summary

All MethodsInstance MethodsConcrete Methods Modifier and Type Method Description void run()

Methods inherited from class java.lang. Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait

Constructor Details

SaveTask

```
public SaveTask(String filePath, VendingMachine machine)
Constructs a new SaveTask.
Parameters:
    filePath - the path of the file to save the state to
    machine - the vending machine to save
```

Method Details

• run

```
public void run()
Specified by:
    run in interface Runnable
```

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SEARCH

Class VendingMachineConsole

java.lang.Object

VendingMachineConsole

All Implemented Interfaces:

<u>LoadTask.VendingMachineLoaderCallback</u>

public class VendingMachineConsole extends <u>Object</u> implements <u>LoadTask.VendingMachineLoaderCallback</u> Console application for managing vending machines.

Constructor Summary

Constructors Constructor Description VendingMachineConsole()

Method Summary

```
All MethodsStatic MethodsInstance MethodsConcrete Methods
Modifier and Type
Method
Description
static void
main(String[] args)
void
onLoadComplete(VendingMachine machine)
Called when the load is complete.
Methods inherited from class java.lang.Object
```

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

Constructor Details

VendingMachineConsole

public VendingMachineConsole()

Method Details

main

public static void main(String[] args)

onLoadComplete

```
public void onLoadComplete(VendingMachine machine)
Description copied from interface: <a href="LoadTask.VendingMachineLoaderCallback">LoadTask.VendingMachineLoaderCallback</a>
Called when the load is complete.
Specified by:
        onLoadComplete in
        interface LoadTask. VendingMachineLoaderCallback
Parameters:
        machine - the loaded vending machine
```

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SEARCH

All Classes and Interfaces

All Classes and InterfacesInterfacesClassesException Classes

Class

Description

CoffeeMachine

A specialized vending machine that dispenses coffee.

Displayable

An interface that represents a displayable and refillable vending machine.

<u>InsufficientResourcesException</u>

This exception is thrown when there are insufficient resources to complete an operation.

LoadTask

A task that loads the state of a vending machine from a file.

LoadTask.VendingMachineLoaderCallback

Callback interface for load completion.

ProductNameAlreadyExistsException

This exception is thrown when a product name already exists in the vending machine.

<u>ProductNotFoundException</u>

This exception is thrown when a product is not found in the vending machine.

<u>Refillable</u>

An interface that represents a refillable vending machine.

SandwichMachine

A specialized vending machine that dispenses sandwiches.

SaveTask

A task that saves the state of a vending machine to a file.

VendingMachine

Represents a general vending machine.

<u>VendingMachineConsole</u>

Console application for managing vending machines.

VendingMachineException

Base class for exceptions thrown by the vending machine.

<u>VendingMachineFactory</u>

Factory class for creating vending machines.

Skip navigation links

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All Packages

Package Summary Package Description <u>Unnamed Package</u>

exceptions

interfaces

specializedmachines

Templates

vendingmachines

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JavaDoc Help

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Navigation

Starting from the <u>Overview</u> page, you can browse the documentation using the links in each page, and in the navigation bar at the top of each page. The <u>Index</u> and Search box allow you to navigate to specific declarations and summary pages, including: <u>All Packages</u>, <u>All Classes and Interfaces</u>

Search

You can search for definitions of modules, packages, types, fields, methods, system properties and other terms defined in the API. These items can be searched using part or all of the name, optionally using "camelCase" abbreviations, or multiple search terms separated by whitespace. Some examples:

• "j.l.obj" matches "java.lang.Object"

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LoadTask.VendingMachineLoaderCallback

- "InpStr" matches "java.io.InputStream"
- "math exact long" matches "java.lang.Math.absExact(long)"

Refer to the <u>Javadoc Search Specification</u> for a full description of search features.

Kinds of Pages

The following sections describe the different kinds of pages in this collection.

Overview

The <u>Overview</u> page is the front page of this API document and provides a list of all packages with a summary for each. This page can also contain an overall description of the set of packages.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. These pages may contain the following categories:

- Interfaces
- Classes
- Enum Classes
- Exception Classes
- Annotation Interfaces

Class or Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a declaration and description, member summary tables, and detailed member descriptions. Entries in each of these sections are omitted if they are empty or not applicable.

- Class Inheritance Diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class or Interface Declaration
- Class or Interface Description
- Nested Class Summary
- Enum Constant Summary
- Field Summary
- Property Summary
- Constructor Summary
- Method Summary
- Required Element Summary
- Optional Element Summary

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LoadTask.VendingMachineLoaderCallback

- Enum Constant Details
- Field Details
- Property Details
- Constructor Details
- Method Details
- Element Details

Note: Annotation interfaces have required and optional elements, but not methods. Only enum classes have enum constants. The components of a record class are displayed as part of the declaration of the record class. Properties are a feature of JavaFX.

The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Other Files

Packages and modules may contain pages with additional information related to the declarations nearby.

Tree (Class Hierarchy)

There is a <u>Class Hierarchy</u> page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. Classes are organized by inheritance structure starting with java.lang.Object. Interfaces do not inherit from java.lang.Object.

- When viewing the Overview page, clicking on TREE displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking on TREE displays the hierarchy for only that package.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to those who implement rather than use the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See Also" section of the class description.

All Packages

The All Packages page contains an alphabetic index of all packages contained in the documentation.

All Classes and Interfaces

The <u>All Classes and Interfaces</u> page contains an alphabetic index of all classes and interfaces contained in the documentation, including annotation interfaces, enum classes, and record classes.

Index

The <u>Index</u> contains an alphabetic index of all classes, interfaces, constructors, methods, and fields in the documentation, as well as summary pages such as <u>All Packages</u>, <u>All Classes and Interfaces</u>.

Class or Interface 14

Load Task. Vending Machine Loader Callback

This help file applies to API documentation generated by the standard doclet.

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Packages

Package

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Unnamed Package

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Hierarchy For All Packages

Package Hierarchies:

- exceptions,
- interfaces.
- specializedmachines,
- Templates,
- vendingmachines

Class Hierarchy

- java.lang.<u>Object</u>
 - ◆ <u>LoadTask</u> (implements java.lang.<u>Runnable</u>)
 - ♦ <u>SaveTask</u> (implements java.lang.<u>Runnable</u>)
 - ♦ java.lang.<u>Throwable</u> (implements java.io.<u>Serializable</u>)
 - ♦ java.lang.Exception
 - · exceptions. Vending Machine Exception
 - exceptions. <u>InsufficientResourcesException</u>
 - exceptions.ProductNameAlreadyExistsException
 - exceptions. <u>ProductNotFoundException</u>
 - ◆ vendingmachines. <u>VendingMachine</u> (implements java.lang. <u>Cloneable</u>, interfaces. <u>Displayable</u>, java.io. <u>Serializable</u>)
 - ♦ specializedmachines. <u>CoffeeMachine</u>
 - ♦ specializedmachines. <u>SandwichMachine</u>
 - ◆ VendingMachineConsole (implements LoadTask.VendingMachineLoaderCallback)
 - ♦ Templates.<u>VendingMachineFactory</u>

Interface Hierarchy

- LoadTask.VendingMachineLoaderCallback
- interfaces.Refillable
 - ♦ interfaces. <u>Displayable</u>

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Unnamed Package

• All Classes and InterfacesInterfacesClasses

Class

Description

LoadTask

A task that loads the state of a vending machine from a file.

<u>LoadTask.VendingMachineLoaderCallback</u>

Callback interface for load completion.

SaveTask

A task that saves the state of a vending machine to a file.

<u>VendingMachineConsole</u>

Console application for managing vending machines.

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Hierarchy For Unnamed Package

Package Hierarchies:

• All Packages

Class Hierarchy

- java.lang.<u>Object</u>
 - ♦ <u>LoadTask</u> (implements java.lang.<u>Runnable</u>)
 - ◆ <u>SaveTask</u> (implements java.lang.<u>Runnable</u>)
 - ♦ <u>VendingMachineConsole</u> (implements <u>LoadTask.VendingMachineLoaderCallback</u>)

Interface Hierarchy

• LoadTask.VendingMachineLoaderCallback

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Search

Additional resources

The <u>help page</u> provides an introduction to the scope and syntax of JavaDoc search.

You can use the <ctrl> or <cmd> keys in combination with the left and right arrow keys to switch between result tabs in this page.

The URL template below may be used to configure this page as a search engine in browsers that support this feature. It has been tested to work in Google Chrome and Mozilla Firefox. Note that other browsers may not support this feature or require a different URL format.

linkCopy

Redirect to first result

Loading search index...

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Serialized Form

Package exceptions

Exception Class <u>exceptions.InsufficientResourcesException</u>

class InsufficientResourcesException extends <u>VendingMachineException</u> implements <u>Serializable</u>

♦ Serialized Fields

. operation

String operation

• Exception Class <u>exceptions.ProductNameAlreadyExistsException</u>

class ProductNameAlreadyExistsException extends <u>VendingMachineException</u> implements <u>Serializable</u>

• Exception Class <u>exceptions.ProductNotFoundException</u>

class ProductNotFoundException extends $\underline{\text{VendingMachineException}}$ implements $\underline{\text{Serializable}}$

• Exception Class <u>exceptions.VendingMachineException</u>

class VendingMachineException extends Exception implements Serializable

Package <u>specializedmachines</u>

Class <u>specializedmachines.CoffeeMachine</u>

class CoffeeMachine extends <u>VendingMachine</u> implements <u>Serializable</u> serialVersionUID:

1L

♦ Serialized Fields

Serialized Form 22

LoadTask.VendingMachineLoaderCallback

. beanLevel

int beanLevel

. sugarLevel

int sugarLevel

. waterLevel

int waterLevel

• Class specializedmachines.SandwichMachine

class SandwichMachine extends <u>VendingMachine</u> implements <u>Serializable</u> serialVersionUID:

1L

♦ Serialized Fields

. breadQuantity

int breadQuantity

. cheeseQuantity

int cheeseQuantity

. hamQuantity

int hamQuantity

*Package vendingmachines

• Class <u>vendingmachines.VendingMachine</u>

class VendingMachine extends <u>Object</u> implements <u>Serializable</u> serialVersionUID:

1L

♦ Serialized Fields

. productAmount

int productAmount

. products

Map<String, vendingmachines.VendingMachine.Product> products

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Package vendingmachines

Class VendingMachine

java.lang.Object

vendingmachines. VendingMachine

All Implemented Interfaces:

<u>Displayable</u>, <u>Refillable</u>, <u>Serializable</u>, <u>Cloneable</u>

Direct Known Subclasses:

<u>CoffeeMachine</u>, <u>SandwichMachine</u>

public class VendingMachine extends <u>Object</u> implements <u>Displayable</u>, <u>Cloneable</u>, <u>Serializable</u> Represents a general vending machine.

See Also:

♦ Serialized Form

Constructor Summary

Constructors

Constructor

Description

VendingMachine (String productName, int productPrice)

Constructs a new VendingMachine.

Method Summary

```
All MethodsStatic MethodsInstance MethodsConcrete Methods
Modifier and Type
Method
Description
void
addProduct(String name, int price, int quantity)
Adds a product to the vending machine.
void
buvProduct (String name)
Buys a product from the vending machine.
<u>VendingMachine</u>
clone()
String
displayInventory()
Displays the inventory of the vending machine.
Integer
fetchPrice(String name)
Fetches the price of a product.
static final int
getMachineCount()
Map<String, vendingmachines.VendingMachine.Product>
getProducts()
boolean
isEmpty()
Checks if the vending machine is empty.
boolean
needsRefill()
Checks if the vending machine needs a refill.
void
```

setProducts (Map<String, vendingmachines.VendingMachine.Product> products)

Methods inherited from class java.lang.Object

equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Constructor Details

VendingMachine

public VendingMachine(<u>String</u> productName, int productPrice)
Constructs a new VendingMachine.
Parameters:

productName - the name of the initial product
productPrice - the price of the initial product

Method Details

+ clone

getMachineCount

public static final int getMachineCount()

addProduct

public void addProduct(<u>String</u> name, int price, int quantity)
Adds a product to the vending machine.

Parameters:

name - the name of the product

price - the price of the product

quantity - the quantity of the product

buyProduct

public void buyProduct(<u>String</u> name) throws <u>ProductNotFoundException</u>, VendingMachineException

Buys a product from the vending machine.

Parameters:

name - the name of the product

Throws:

<u>ProductNotFoundException</u> - if the product is not found <u>VendingMachineException</u> - if the product is out of stock

needsRefill

public boolean needsRefill()
Description copied from interface: Refillable
Checks if the vending machine needs a refill.

LoadTask.VendingMachineLoaderCallback

```
Specified by:
```

needsRefill in interface Refillable

Returns:

true if the vending machine needs a refill, false otherwise

isEmpty

public boolean isEmpty()

Description copied from interface: Refillable

Checks if the vending machine is empty.

Specified by:

<u>isEmpty</u> in interface Refillable

Returns:

true if the vending machine is empty, false otherwise

fetchPrice

public Integer fetchPrice(String name)

Fetches the price of a product.

Parameters:

name - the name of the product

Returns:

the price of the product, or null if not found

getProducts

public Map<String,vendingmachines.VendingMachine.Product> getProducts()

setProducts

public void setProducts(Map<String,vendingmachines.VendingMachine.Product> products)

displayInventory

```
public String displayInventory()
```

Description copied from interface: Displayable

Displays the inventory of the vending machine.

Specified by:

displayInventory in interface Displayable

Returns:

the inventory as a string

needsRefill 27

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Package vendingmachines

package vendingmachines

• Classes

Class

Description

VendingMachine

Represents a general vending machine.

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Hierarchy For Package vendingmachines

Package Hierarchies:

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Class Hierarchy

- java.lang.<u>Object</u>
 - ◆ vendingmachines. <u>VendingMachine</u> (implements java.lang. <u>Cloneable</u>, interfaces. <u>Displayable</u>, java.io. <u>Serializable</u>)

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Package specializedmachines

Class CoffeeMachine

java.lang.Object

vendingmachines. VendingMachine

specializedmachines.CoffeeMachine

All Implemented Interfaces:

Displayable, Refillable, Serializable, Cloneable

public class CoffeeMachine extends <u>VendingMachine</u>

A specialized vending machine that dispenses coffee.

Class CoffeeMachine 30

See Also:

♦ Serialized Form

Constructor Summary

Constructors

Constructor

Description

CoffeeMachine(String productName, Integer productPrice, int water,
int beans, int sugar)

Constructs a new CoffeeMachine with the specified initial levels of water, beans, and sugar.

Method Summary

All MethodsInstance MethodsConcrete Methods

Modifier and Type

Method

Description

void

brewCoffee()

Brews a cup of coffee.

String

displayInventory()

Displays the inventory of the vending machine.

boolean

isEmpty()

Checks if the vending machine is empty.

boolean

needsRefill()

Checks if the vending machine needs a refill.

void

refillBeans(int amount)

Refills the bean level.

void

refillSugar(int amount)

Refills the sugar level.

void

refillWater(int amount)

Refills the water level.

Methods inherited from class vendingmachines. VendingMachine

addProduct, buyProduct, clone, fetchPrice, getMachineCount,
getProducts, setProducts

Methods inherited from class java.lang. Object

equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Constructor Details

CoffeeMachine

public CoffeeMachine(<u>String</u> productName, <u>Integer</u> productPrice, int water, int beans, int sugar)

Constructs a new CoffeeMachine with the specified initial levels of water, beans, and sugar. Parameters:

```
productName - the name of the coffee product
productPrice - the price of the coffee product
water - the initial level of water
beans - the initial level of beans
sugar - the initial level of sugar
```

Method Details

brewCoffee

```
public void brewCoffee() throws <u>InsufficientResourcesException</u> Brews a cup of coffee.
```

Throws:

<u>InsufficientResourcesException</u> - if there are not enough ingredients to brew coffee

refillWater

```
public void refillWater(int amount)
Refills the water level.
Parameters:

amount - the amount of water to add
```

refillBeans

```
public void refillBeans(int amount)
Refills the bean level.
Parameters:
    amount - the amount of beans to add
```

• refillSugar

```
public void refillSugar(int amount)
Refills the sugar level.
Parameters:

amount - the amount of sugar to add
isFmnty
```

isEmpty

Constructor Details 32

LoadTask.VendingMachineLoaderCallback

<u>isEmpty</u> in class <u>VendingMachine</u>

Returns:

true if the vending machine is empty, false otherwise

needsRefill

public boolean needsRefill()

Description copied from interface: Refillable

Checks if the vending machine needs a refill.

Specified by:

needsRefill in interface Refillable

Overrides:

needsRefill in class VendingMachine

Returns:

true if the vending machine needs a refill, false otherwise

displayInventory

public <u>String</u> displayInventory()

Description copied from interface: Displayable

Displays the inventory of the vending machine.

Specified by:

<u>displayInventory</u> in interface <u>Displayable</u>

Overrides:

displayInventory in class VendingMachine

Returns:

the inventory as a string

isEmpty 33

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Package specializedmachines

Class SandwichMachine

java.lang.Object

vendingmachines. VendingMachine

specialized machines. Sandwich Machine

All Implemented Interfaces:

<u>Displayable</u>, <u>Refillable</u>, <u>Serializable</u>, <u>Cloneable</u>

public class SandwichMachine extends <u>VendingMachine</u> A specialized vending machine that dispenses sandwiches.

Class SandwichMachine 34

See Also:

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Constructor Summary

Constructors

Constructor

Description

<u>SandwichMachine(String productName, Integer productPrice, int ham, int cheese, int bread)</u>

Constructs a new SandwichMachine with the specified initial quantities of ham, cheese, and bread.

Method Summary

All MethodsInstance MethodsConcrete Methods

Modifier and Type

Method

Description

String

displayInventory()

Displays the inventory of the vending machine.

boolean

isEmpty()

Checks if the vending machine is empty.

void

makeSandwich()

Makes a sandwich.

boolean

needsRefill()

Checks if the vending machine needs a refill.

void

refillBread(int amount)

Refills the bread quantity.

void

refillCheese(int amount)

Refills the cheese quantity.

void

refillHam(int amount)

Refills the ham quantity.

Methods inherited from class vendingmachines. VendingMachine

addProduct, buyProduct, clone, fetchPrice, getMachineCount,
getProducts, setProducts

Methods inherited from class java.lang. Object

equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Constructor Details

SandwichMachine

public SandwichMachine(<u>String</u> productName, <u>Integer</u> productPrice, int ham, int cheese, int bread)

Constructs a new SandwichMachine with the specified initial quantities of ham, cheese, and bread.

Parameters:

productName - the name of the sandwich product
productPrice - the price of the sandwich product
ham - the initial quantity of ham
cheese - the initial quantity of cheese
bread - the initial quantity of bread

Method Details

refillHam

public void refillHam(int amount)
Refills the ham quantity.
Parameters:

amount - the amount of ham to add

refillCheese

public void refillCheese(int amount)
Refills the cheese quantity.
Parameters:

amount - the amount of cheese to add

refillBread

public void refillBread(int amount)
Refills the bread quantity.
Parameters:

amount - the amount of bread to add

amount - the amount of breat to

makeSandwich

public void makeSandwich() throws <u>InsufficientResourcesException</u> Makes a sandwich.

Throws:

<u>InsufficientResourcesException</u> - if there are not enough ingredients to make a sandwich

isEmpty

```
public boolean isEmpty()
Description copied from interface: Refillable
Checks if the vending machine is empty.
Specified by:
isEmpty in interface Refillable
```

Constructor Details 36

LoadTask.VendingMachineLoaderCallback

Overrides:

<u>isEmpty</u> in class <u>VendingMachine</u>

Returns:

true if the vending machine is empty, false otherwise

needsRefill

public boolean needsRefill()

Description copied from interface: Refillable

Checks if the vending machine needs a refill.

Specified by:

needsRefill in interface Refillable

Overrides:

needsRefill in class VendingMachine

Returns:

true if the vending machine needs a refill, false otherwise

displayInventory

public <u>String</u> displayInventory()

Description copied from interface: Displayable

Displays the inventory of the vending machine.

Specified by:

<u>displayInventory</u> in interface <u>Displayable</u>

Overrides:

displayInventory in class VendingMachine

Returns:

the inventory as a string

isEmpty 37

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Package specializedmachines

package specializedmachines

• Classes

Class

Description

CoffeeMachine

A specialized vending machine that dispenses coffee.

SandwichMachine

A specialized vending machine that dispenses sandwiches.

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Hierarchy For Package specializedmachines

Package Hierarchies:

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Class Hierarchy

- java.lang.<u>Object</u>
 - ◆ vendingmachines. <u>VendingMachine</u> (implements java.lang. <u>Cloneable</u>, interfaces. <u>Displayable</u>, java.io. <u>Serializable</u>)
 - ♦ specializedmachines. <u>CoffeeMachine</u>
 - $\lozenge \ specialized machines. \underline{Sandwich Machine}$

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Package interfaces

Interface Displayable

All Superinterfaces:

<u>Refillable</u>

All Known Implementing Classes:

CoffeeMachine, SandwichMachine, VendingMachine

public interface Displayable extends Refillable

An interface that represents a displayable and refillable vending machine.

Method Summary

All MethodsInstance MethodsAbstract Methods Modifier and Type Method Description String displayInventory()

Displays the inventory of the vending machine.

Methods inherited from interface interfaces. Refillable

isEmpty, needsRefill

Method Details

displayInventory

String displayInventory()
Displays the inventory of the vending machine.
Returns:
the inventory as a string

Method Summary 41

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Package <u>interfaces</u>

Interface Refillable

All Known Subinterfaces:

<u>Displayable</u>

All Known Implementing Classes:

CoffeeMachine, SandwichMachine, VendingMachine

public interface Refillable

An interface that represents a refillable vending machine.

Interface Refillable 42

Method Summary

All MethodsInstance MethodsAbstract Methods

Modifier and Type

Method

Description

boolean

isEmpty()

Checks if the vending machine is empty.

boolean

needsRefill()

Checks if the vending machine needs a refill.

Method Details

needsRefill

boolean needsRefill()

Checks if the vending machine needs a refill.

Returns:

true if the vending machine needs a refill, false otherwise

isEmpty

boolean isEmpty()

Checks if the vending machine is empty.

Returns:

true if the vending machine is empty, false otherwise

Method Summary 43

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Package interfaces

package interfaces

• Interfaces

Class

Description

Displayable

An interface that represents a displayable and refillable vending machine.

Refillable

An interface that represents a refillable vending machine.

Package interfaces 44

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Hierarchy For Package interfaces

Package Hierarchies:

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Interface Hierarchy

- interfaces. Refillable
 - ♦ interfaces. <u>Displayable</u>

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Α

<u>addProduct(String, int, int)</u> - Method in class vendingmachines. <u>VendingMachine</u> Adds a product to the vending machine.

 $\underline{A}\,\underline{B}\,\underline{C}\,\underline{D}\,\underline{E}\,\underline{F}\,\underline{G}\,\underline{I}\,\underline{L}\,\underline{M}\,\underline{N}\,\underline{O}\,\underline{P}\,\underline{R}\,\underline{S}\,\underline{T}\,\underline{V}$

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В

 $\frac{brewCoffee()}{Brews\ a\ cup\ of\ coffee}. \underline{CoffeeMachine}$

<u>buyProduct(String)</u> - Method in class vendingmachines. <u>VendingMachine</u> Buys a product from the vending machine.

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C

<u>clone()</u> - Method in class vendingmachines. <u>VendingMachine</u>

<u>CoffeeMachine</u> - Class in <u>specializedmachines</u>

A specialized vending machine that dispenses coffee.

<u>CoffeeMachine(String, Integer, int, int, int)</u> - Constructor for class specializedmachines. <u>CoffeeMachine</u> Constructs a new CoffeeMachine with the specified initial levels of water, beans, and sugar.

 $\underline{createVendingMachine(String)} - Static \ method \ in \ class \ Templates. \underline{VendingMachineFactory}$

Creates a vending machine of the specified type.

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D

<u>Displayable</u> - Interface in <u>interfaces</u>

An interface that represents a displayable and refillable vending machine.

<u>displayInventory()</u> - Method in interface interfaces. <u>Displayable</u>

Displays the inventory of the vending machine.

<u>displayInventory()</u> - Method in class specializedmachines. <u>CoffeeMachine</u>

<u>displayInventory()</u> - Method in class specializedmachines. <u>SandwichMachine</u>

<u>displayInventory()</u> - Method in class vendingmachines. <u>VendingMachine</u>

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Ε

exceptions - package exceptions

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F

<u>fetchPrice(String)</u> - Method in class vendingmachines. <u>VendingMachine</u> Fetches the price of a product.

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G

getMachineCount() - Static method in class vendingmachines.VendingMachine

getOperation() - Method in exception class exceptions.<u>InsufficientResourcesException</u>
 Gets the operation that caused the exception.
getProducts() - Method in class vendingmachines.<u>VendingMachine</u>

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I

$\underline{InsufficientResourcesException} - Exception \ Class \ in \ \underline{exceptions}$

This exception is thrown when there are insufficient resources to complete an operation. <u>InsufficientResourcesException(String, String)</u> - Constructor for exception class exceptions.<u>InsufficientResourcesException</u>

Constructs a new exception with the specified detail message and operation. <u>interfaces</u> - package interfaces

isEmpty() - Method in interface interfaces.Refillable

Checks if the vending machine is empty.

<u>isEmpty()</u> - Method in class specializedmachines. <u>CoffeeMachine</u>

isEmpty() - Method in class specializedmachines. SandwichMachine

isEmpty() - Method in class vendingmachines. VendingMachine

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L

<u>LoadTask</u> - Class in <u>Unnamed Package</u>

A task that loads the state of a vending machine from a file.

<u>LoadTask(String, LoadTask.VendingMachineLoaderCallback)</u> - Constructor for class <u>LoadTask</u> Constructs a new LoadTask.

 $\underline{LoadTask.VendingMachineLoaderCallback} - Interface \ in \ \underline{Unnamed\ Package}$

Callback interface for load completion.

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main(String[]) - Static method in class <u>VendingMachineConsole</u>

<u>makeSandwich()</u> - Method in class specializedmachines. <u>SandwichMachine</u> Makes a sandwich.

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Ν

<u>needsRefill()</u> - Method in interface interfaces. <u>Refillable</u>

Checks if the vending machine needs a refill.

<u>needsRefill()</u> - Method in class specializedmachines. <u>CoffeeMachine</u>

needsRefill() - Method in class specializedmachines.SandwichMachine

<u>needsRefill()</u> - Method in class vendingmachines. <u>VendingMachine</u>

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onLoadComplete(VendingMachine) - Method in interface <u>LoadTask.VendingMachineLoaderCallback</u>
Called when the load is complete.

onLoadComplete(VendingMachine) - Method in class <u>VendingMachineConsole</u>

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P

<u>ProductNameAlreadyExistsException</u> - Exception Class in <u>exceptions</u>

This exception is thrown when a product name already exists in the vending machine.

<u>ProductNameAlreadyExistsException(String)</u> - Constructor for exception class

exceptions. ProductNameAlreadyExistsException

Constructs a new exception with the specified detail message.

<u>ProductNotFoundException</u> - Exception Class in <u>exceptions</u>

This exception is thrown when a product is not found in the vending machine.

<u>ProductNotFoundException(String)</u> - Constructor for exception class exceptions. <u>ProductNotFoundException</u> Constructs a new exception with the specified detail message.

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R

Refillable - Interface in interfaces

An interface that represents a refillable vending machine.

<u>refillBeans(int)</u> - Method in class specializedmachines. <u>CoffeeMachine</u> Refills the bean level.

<u>refillBread(int)</u> - Method in class specializedmachines. <u>SandwichMachine</u> Refills the bread quantity.

<u>refillCheese(int)</u> - Method in class specializedmachines. <u>SandwichMachine</u> Refills the cheese quantity.

<u>refillHam(int)</u> - Method in class specializedmachines. <u>SandwichMachine</u> Refills the ham quantity.

<u>refillSugar(int)</u> - Method in class specializedmachines. <u>CoffeeMachine</u> Refills the sugar level.

<u>refillWater(int)</u> - Method in class specializedmachines. <u>CoffeeMachine</u> Refills the water level.

<u>run()</u> - Method in class <u>LoadTask</u>

<u>run()</u> - Method in class <u>SaveTask</u>

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S

<u>SandwichMachine</u> - Class in <u>specializedmachines</u>

A specialized vending machine that dispenses sandwiches.

<u>SandwichMachine(String, Integer, int, int, int)</u> - Constructor for class specializedmachines. <u>SandwichMachine</u>

Constructs a new SandwichMachine with the specified initial quantities of ham, cheese, and bread.

SaveTask - Class in <u>Unnamed Package</u>

A task that saves the state of a vending machine to a file.

<u>SaveTask(String, VendingMachine)</u> - Constructor for class <u>SaveTask</u>

Constructs a new SaveTask.

setProducts(Map<String, VendingMachine.Product>) - Method in class vendingmachines.VendingMachine

specializedmachines - package specializedmachines

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Т

<u>Templates</u> - package Templates

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V

<u>VendingMachine</u> - Class in <u>vendingmachines</u>

Represents a general vending machine.

<u>VendingMachine(String, int)</u> - Constructor for class vendingmachines. <u>VendingMachine</u>

Constructs a new VendingMachine.

<u>VendingMachineConsole</u> - Class in <u>Unnamed Package</u>

Console application for managing vending machines.

<u>VendingMachineConsole()</u> - Constructor for class <u>VendingMachineConsole</u>

<u>VendingMachineException</u> - Exception Class in <u>exceptions</u>

Base class for exceptions thrown by the vending machine.

<u>VendingMachineException(String)</u> - Constructor for exception class exceptions. <u>VendingMachineException</u>

Constructs a new exception with the specified detail message.

<u>VendingMachineFactory</u> - Class in <u>Templates</u>

Factory class for creating vending machines.

<u>VendingMachineFactory()</u> - Constructor for class Templates.<u>VendingMachineFactory</u>

vendingmachines - package vendingmachines

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Package exceptions

Class InsufficientResourcesException

java.lang.Object

java.lang.Throwable

java.lang.Exception

exceptions.VendingMachineException

exceptions. In sufficient Resources Exception

All Implemented Interfaces:

Serializable

public class InsufficientResourcesException extends <u>VendingMachineException</u>
This exception is thrown when there are insufficient resources to complete an operation.

See Also:

♦ Serialized Form

Constructor Summary

Constructors

Constructor

Description

<u>InsufficientResourcesException</u> (<u>String</u> message, <u>String</u> operation) Constructs a new exception with the specified detail message and operation.

Method Summary

All MethodsInstance MethodsConcrete Methods

Modifier and Type

Method

Description

String

getOperation()

Gets the operation that caused the exception.

Methods inherited from class java.lang.Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage,
getMessage, getStackTrace, getSuppressed, initCause,
printStackTrace, printStackTrace, printStackTrace, setStackTrace,
toString

Methods inherited from class java.lang. Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
wait, wait, wait

Constructor Details

• InsufficientResourcesException

public InsufficientResourcesException(<u>String</u> message, <u>String</u> operation) Constructs a new exception with the specified detail message and operation. Parameters:

message - the detail message operation - the operation that caused the exception

Method Details

getOperation

public <u>String</u> getOperation()
Gets the operation that caused the exception.
Returns:

the operation

Method Details 65

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Package exceptions

Class ProductNameAlreadyExistsException

java.lang.Object

<u>iava.lang.Throwable</u>

java.lang.Exception

exceptions. Vending Machine Exception

exceptions. Product Name Already Exists Exception

All Implemented Interfaces:

Serializable

public class ProductNameAlreadyExistsException extends <u>VendingMachineException</u> This exception is thrown when a product name already exists in the vending machine.

See Also:

♦ Serialized Form

Constructor Summary

Constructors

Constructor

Description

ProductNameAlreadyExistsException(String message)

Constructs a new exception with the specified detail message.

Method Summary

Methods inherited from class java.lang.Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage,
getMessage, getStackTrace, getSuppressed, initCause,
printStackTrace, printStackTrace, printStackTrace, setStackTrace,
toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
wait, wait

Constructor Details

ProductNameAlreadyExistsException

public ProductNameAlreadyExistsException(<u>String</u> message) Constructs a new exception with the specified detail message. Parameters:

message - the detail message

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Package exceptions

Class ProductNotFoundException

java.lang.Object

java.lang.Throwable

java.lang.Exception

exceptions.VendingMachineException

exceptions. Product Not Found Exception

All Implemented Interfaces:

Serializable

public class ProductNotFoundException extends <u>VendingMachineException</u> This exception is thrown when a product is not found in the vending machine.

See Also:

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Constructor Summary

Constructors

Constructor

Description

ProductNotFoundException(String message)

Constructs a new exception with the specified detail message.

Method Summary

Methods inherited from class java.lang.Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage,
getMessage, getStackTrace, getSuppressed, initCause,
printStackTrace, printStackTrace, printStackTrace, setStackTrace,
toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
wait, wait, wait

Constructor Details

ProductNotFoundException

public ProductNotFoundException(<u>String</u> message) Constructs a new exception with the specified detail message. Parameters:

message - the detail message

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Package exceptions

Class VendingMachineException

java.lang.Object

java.lang.Throwable

java.lang.Exception

exceptions. Vending Machine Exception

All Implemented Interfaces:

<u>Serializable</u>

Direct Known Subclasses:

LoadTask.VendingMachineLoaderCallback

InsufficientResourcesException, ProductNameAlreadyExistsException,
ProductNotFoundException

public class VendingMachineException extends <u>Exception</u> Base class for exceptions thrown by the vending machine.

See Also:

♦ Serialized Form

Constructor Summary

Constructors

Constructor

Description

VendingMachineException(String message)

Constructs a new exception with the specified detail message.

Method Summary

Methods inherited from class java.lang. Throwable

addSuppressed, fillInStackTrace, getCause, getLocalizedMessage,
getMessage, getStackTrace, getSuppressed, initCause,
printStackTrace, printStackTrace, printStackTrace, setStackTrace,
toString

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
wait, wait, wait

Constructor Details

◆ VendingMachineException

public VendingMachineException(<u>String</u> message) Constructs a new exception with the specified detail message. Parameters:

message - the detail message

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Package exceptions

package exceptions

• Exception Classes

Class

Description

<u>InsufficientResourcesException</u>

This exception is thrown when there are insufficient resources to complete an operation.

<u>ProductNameAlreadyExistsException</u>

This exception is thrown when a product name already exists in the vending machine.

<u>ProductNotFoundException</u>

This exception is thrown when a product is not found in the vending machine.

VendingMachineException

Base class for exceptions thrown by the vending machine.

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Hierarchy For Package exceptions

Package Hierarchies:

• All Packages

Class Hierarchy

- java.lang.<u>Object</u>
 - ◆ java.lang.<u>Throwable</u> (implements java.io.<u>Serializable</u>)
 ◊ java.lang.<u>Exception</u>
 - $\cdot exceptions. \underline{Vending Machine Exception}$
 - $\bullet \ exceptions. \underline{InsufficientResourcesException}\\$
 - exceptions. <u>ProductNameAlreadyExistsException</u>
 - exceptions.<u>ProductNotFoundException</u>

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Package <u>Templates</u>

Class VendingMachineFactory

java.lang.Object

Templates. Vending Machine Factory

public abstract class VendingMachineFactory extends <u>Object</u> Factory class for creating vending machines.

Constructor Summary

Constructors

Constructor

LoadTask.VendingMachineLoaderCallback

Description

VendingMachineFactory()

Method Summary

All MethodsStatic MethodsConcrete Methods Modifier and Type Method Description

static <u>VendingMachine</u>

createVendingMachine(String type)

Creates a vending machine of the specified type.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait

Constructor Details

VendingMachineFactory

public VendingMachineFactory()

Method Details

createVendingMachine

public static <u>VendingMachine</u> createVendingMachine(<u>String</u> type) throws <u>IllegalArgumentException</u>

Creates a vending machine of the specified type.

Parameters:

type - the type of vending machine

Returns:

the created vending machine

Throws:

IllegalArgumentException - if the type is unknown

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Package Templates

package Templates

Classes

Class

Description

VendingMachineFactory

Factory class for creating vending machines.

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Hierarchy For Package Templates

Package Hierarchies:

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Class Hierarchy

- java.lang.Object
 - ◆ Templates. <u>VendingMachineFactory</u>