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Class DrinkItem

java.lang.Object
DrinkItem

All Implemented Interfaces:

java.lang.Comparable

Direct Known Subclasses:

[BobaDrink](#), [CoffeeDrink](#)

```
public abstract class DrinkItem
extends java.lang.Object
implements java.lang.Comparable
```

The DrinkItem superclass contains general methods and capabilities to find characteristics of a drink item. Also has ability to compare two DrinkItem objects by implementing the comparable interface.

Since:

2019-02-20

Constructor Summary

Constructors

Constructor and Description

[DrinkItem\(\)](#)

Default constructor initializes instance variables

Method Summary

All Methods Static Methods Instance Methods Abstract Methods

Concrete Methods

Modifier and Type

Method and Description

int

[compareTo](#)(java.lang.Object Drink)

Compares DrinkItem objects based on the highest cost

java.lang.String

[getBase](#)()

Gets the name of the drink's base

| | |
|------------------|--|
| abstract double | getCost() Abstract method that is overridden in subclasses to find cost of drink |
| boolean | getCouponApplied() Gets a boolean that notifies classes whether a coupon has been used |
| double | getCouponDiscount() Gets the price after a discount was applied from a coupon |
| java.lang.String | getDrinkName() Gets the name of a drink |
| java.lang.String | getSize() Gets the size of a drink |
| java.lang.String | getSweetness() Gets the sweetness of a drink |
| static void | max(DrinkItem drink) Static max method sets a static variable max to the highest priced drink |
| void | setBase(java.lang.String theirBase) Sets the name of the drink's base |
| void | setCouponApplied(boolean couponUsed) Sets the boolean value that checks whether a coupon has been used |
| void | setCouponDiscount(double discountPrice) Sets the price to the new price after a discount was applied |
| void | setDrinkName(java.lang.String drink) Sets the name of a drink |
| void | setSize(java.lang.String size) Sets the size of a drink, chooses the size from an array of sizes |
| void | setSweetness(java.lang.String sweetness) Sets the sweetness of a drink |
| java.lang.String | toString() Default toString |
| boolean | validateOption(int option) Validates specific decisions that have three options, such as size |

Methods inherited from class java.lang.Object

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

Constructor Detail

DrinkItem

```
public DrinkItem()
```

Default constructor initializes instance variables

Method Detail**getDrinkName**

```
public java.lang.String getDrinkName()
```

Gets the name of a drink

Returns:

- the name of a drink

setDrinkName

```
public void setDrinkName(java.lang.String drink)
```

Sets the name of a drink

Parameters:

drink - - a string representing the name of a drink

getCouponApplied

```
public boolean getCouponApplied()
```

Gets a boolean that notifies classes whether a coupon has been used

Returns:

- a boolean value representing if a coupon has been used

setCouponApplied

```
public void setCouponApplied(boolean couponUsed)
```

Sets the boolean value that checks whether a coupon has been used

Parameters:

couponUsed - - a boolean value that represents whether a coupon has been used

getCouponDiscount

```
public double getCouponDiscount()
```

Gets the price after a discount was applied from a coupon

Returns:

- the cost after coupon has been applied

setCouponDiscount

```
public void setCouponDiscount(double discountPrice)
```

Sets the price to the new price after a discount was applied

Parameters:

discountPrice - - the price after discount was applied

getBase

```
public java.lang.String getBase()
```

Gets the name of the drink's base

Returns:

- a string representing a drink's base

setBase

```
public void setBase(java.lang.String theirBase)
```

Sets the name of the drink's base

Parameters:

theirBase - - a string name of the base

getSweetness

```
public java.lang.String getSweetness()
```

Gets the sweetness of a drink

Returns:

- a string representing the sweetness of a drink

setSweetness

```
public void setSweetness(java.lang.String sweetness)
```

Sets the sweetness of a drink

Parameters:

sweetness - - a string description of a drink's sweetness

getSize

```
public java.lang.String getSize()
```

Gets the size of a drink

Returns:

- a string representing the size of a drink

setSize

```
public void setSize(java.lang.String size)
```

Sets the size of a drink, chooses the size from an array of sizes

Parameters:

size - - the user's size of a choice

toString

```
public java.lang.String toString()
```

Default toString

Overrides:

toString in class java.lang.Object

Returns:

- a string notifying the user that a specific drink was not found or purchased

validateOption

```
public boolean validateOption(int option)
```

Validates specific decisions that have three options, such as size

Parameters:

option - - an integer option chosen by user from list of menu or sub-menu options

Returns:

- a boolean representing if an option is valid or not

max

```
public static void max(DrinkItem drink)
```

Static max method sets a static variable max to the highest priced drink

Parameters:

drink - - a DrinkItem object which represents a drink of highest cost

compareTo

```
public int compareTo(java.lang.Object Drink)
```

Compares DrinkItem objects based on the highest cost

Specified by:

compareTo in interface java.lang.Comparable

Parameters:

Drink - - an Object that is a drink that will be compared

Returns:

- an integer representing the outcome of a comparison

getCost

```
public abstract double getCost()
```

Abstract method that is overridden in subclasses to find cost of drink

Returns:

- will return the cost of a drink

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