

Class Hike

`java.lang.Object`
Hike

```
public class Hike
extends Object
```

Constructor Summary

Constructors

Constructor	Description
<code>Hike(String name)</code>	this utilizes a method called constructor chaining where the primary constructor is used to default values when only the name is provided, it sets miles and elevation to 0
<code>Hike(String name, double miles)</code>	this uses the default values in the primary constructor when you have access to only name and miles, it also sets the elevation to 0
<code>Hike(String name, double miles, int elevation)</code>	this utilizes the name, miles, and elevation parameters to set the instance variables using the this keyword

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
<code>Hike</code>	<code>getChallenging(Hike h)</code>	
<code>double</code>	<code>getElevation()</code>	Gets the elevation gain of this hike
<code>double</code>	<code>getMiles()</code>	Gets the miles in this hike
<code>String</code>	<code>getName()</code>	Gets the name of this hike
<code>boolean</code>	<code>isHigherThan(Hike h)</code>	Determines if the current hike has more elevation gain than another
<code>boolean</code>	<code>isLongerThan(Hike h)</code>	Determines if the current hike is longer than another hike

String**toString()**

Return the string representation of the hike

Methods inherited from class java.lang.Object

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

Constructor Details**Hike**

```
public Hike(String name,  
           double miles,  
           int elevation)
```

this utilizes the name, miles, and elevation parameters to set the instance variables using the this keyword

Parameters:

name - The name of this hike

miles - The length of this hike in miles

elevation - The elevation gain of the hike in feet

Hike

```
public Hike(String name)
```

this utilizes a method called constructor chaining where the primary constructor is used to default values when only the name is provided, it sets miles and elevation to 0

Parameters:

name - The name of this hike

Hike

```
public Hike(String name,  
           double miles)
```

this uses the default values in the primary constructor when you have access to only name and miles, it also sets the elevation to 0

Parameters:

name - The name of this hike

miles - The length of this hike in miles

Method Details

getName

```
public String getName()
```

Gets the name of this hike

Returns:

the name of the hike

getMiles

```
public double getMiles()
```

Gets the miles in this hike

Returns:

the length of the hike in miles

getElevation

```
public double getElevation()
```

Gets the elevation gain of this hike

Returns:

the elevation gain in feet

isLongerThan

```
public boolean isLongerThan(Hike h)
```

Determines if the current hike is longer than another hike

Parameters:

h - The hike to use in the comparison

Returns:

true if the current hike is longer

isHigherThan

```
public boolean isHigherThan(Hike h)
```

Determines if the current hike has more elevation gain than another

Parameters:

h - The hike to use in the comparison

Returns:

true if the current hike has more elevation gain

getChallenging

```
public Hike getChallenging(Hike h)
```

toString

```
public String toString()
```

Return the string representation of the hike

Overrides:

`toString` in class `Object`

Returns:

Describes the name, miles, and elevation of the hike