Class Hike

java.lang.Object
    Hike

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public class **Hike**
extends Object

Constructor Summary

Constructors

Constructor	Description
Hike(String name)	
Hike(String name, double miles)	
Hike(String name, double miles, int elevation)	A constructor for the Hike class

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method	Description
void	**addToElevation**(int feet)	Add feet to the elevation of this hike
int	**elevationDifference**(Hike h)	Determine the difference in elevation between this hike and the previous hike
double	**getElevation**()	Gets the elevation gain of this hike
double	**getMiles**()	Gets the miles in this hike
String	**getName**()	Gets the name of this hike
boolean	**isHigherThan**(Hike h)	Determines if the current hike has more elevation gain than another
boolean	**isLongerThan**(Hike h)	Determines if the current hike is longer than another hike
void	**setLocation**(String stateName)	Set the location name of this hike

String	**toString**()	Return the string representation of the hike

Methods inherited from class Object

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

Constructor Details

Hike

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

A constructor for the Hike class

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,
            double miles)
```

Hike

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

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 preconditional: Hike h cannot be null

elevationDifference

```
public int elevationDifference(Hike h)
```

Determine the difference in elevation between this hike and the previous hike

Parameters:

`h` - The hike to use in the comparison

Returns:

The difference in elevation between the two hikes

addToElevation

```
public void addToElevation(int feet)
```

Add feet to the elevation of this hike

Parameters:

`feet` - The number of feet to add to the elevation of this hike

setLocation

```
public void setLocation(String  stateName)
```

Set the location name of this hike

Parameters:

`locality` - The new locality of the hike

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