

# Class Hike

java.lang.Object  
Hike

```
public class Hike
extends Object
```

## Constructor Summary [↗](#)

### Constructors

Constructor	Description
<b>Hike</b> (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
<b>Hike</b> (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
<b>Hike</b> (String name, double miles, int elevation)	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
<b>Hike</b>	<b>getChallenging</b> (Hike h)	
double	<b>getElevation</b> ()	Gets the elevation gain of this hike
double	<b>getMiles</b> ()	Gets the miles in this hike
<b>String</b>	<b>getName</b> ()	Gets the name of this hike
boolean	<b>isHigherThan</b> (Hike h)	Determines if the current hike has more elevation gain than another
boolean	<b>isLongerThan</b> (Hike h)	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