

Package [main](#)

## Class Graph

[java.lang.Object](#)  
[main.Graph](#)

All Implemented Interfaces:  
[IGraph](#)

```
public class Graph
  extends java.lang.Object
  implements IGraph
```

Author:  
calchen, Jiaying Guo

### Constructor Summary

Constructors	
Constructor	Description
<b>Graph</b> ( <a href="#">java.util.List</a> < <a href="#">Location</a> > locations, <a href="#">java.util.List</a> < <a href="#">Road</a> > roads)	Constructor of the Graph class, which converts a list of Locations and a list of Roads into a HashMap representing the road network

### Method Summary

All Methods		
Instance Methods		
Concrete Methods		
Modifier and Type	Method	Description
<a href="#">java.lang.String</a>	<b>findShortestPath</b> ( <a href="#">java.lang.String</a> loc1, <a href="#">java.lang.String</a> loc2)	findShortestPath() returns the directions in text for the shortest path from one Location to another

Methods inherited from class <a href="#">java.lang.Object</a>		
<a href="#">equals</a> , <a href="#">getClass</a> , <a href="#">hashCode</a> , <a href="#">notify</a> , <a href="#">notifyAll</a> , <a href="#">toString</a> , <a href="#">wait</a> , <a href="#">wait</a> , <a href="#">wait</a>		

```
public Graph(java.util.List<Location> locations,
             java.util.List<Road> roads)
```

Constructor of the Graph class, which converts a list of Locations and a list of Roads into a HashMap representing the road network

**Parameters:**

locations - a list of Locations on the map

roads - a list of Roads on the map

## Method Detail

### findShortestPath

```
public java.lang.String findShortestPath(java.lang.String loc1,
                                         java.lang.String loc2)
```

findShortestPath() returns the directions in text for the shortest path from one Location to another

**Specified by:**

findShortestPath in interface IGraph

**Parameters:**

the - name of the starting Location

the - name of the destination

**Returns:**

the directions in text for the shortest path from the starting Location to the destination