## Package main

## Interface IQuadTree

All Known Implementing Classes:

QuadTree

public interface IQuadTree

The IQuadTree interface contains methods that support the functionalities of the QuadTree

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| Method Summary                       |  |                      |                                            |             |                                                                                                                                        |
|--------------------------------------|--|----------------------|--------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| All Methods Instance Metho           |  | ods Abstract Methods |                                            |             |                                                                                                                                        |
| Modifier and Type                    |  | Method               |                                            | Description |                                                                                                                                        |
| Range                                |  |                      | osingQuad<br>a.util.List< <b>Locatio</b> n | > locs)     | enclosingQuad() returns the smallest possible Range that includes all given Locations; it also re- initialize the root of the QuadTree |
| boolean                              |  | inse                 | rt(Location loc)                           |             | insert() inserts a new<br>Location into the<br>QuadTree                                                                                |
| java.util.List <location></location> |  |                      | <pre>ch(java.lang.String + e range)</pre>  | type,       | search() returns a list of<br>Locations of a given type<br>within a given Range by<br>traversing the QuadTree                          |

# Method Detail

insert

boolean insert(Location loc)

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

true if the new Location has been successfully inserted and false otherwise

#### search

search() returns a list of Locations of a given type within a given Range by traversing the QuadTree

#### Parameters:

type - the type of Locations we want to search(e.g. "School")

range - the search range

#### Returns:

a list of Locations of the given type within the given Range

### enclosingQuad

Range enclosingQuad(java.util.List<Location> locs)

enclosingQuad() returns the smallest possible Range that includes all given Locations; it also re-initialize the root of the QuadTree

#### Parameters:

locs - a list of Locations

#### Returns:

the smallest possible Range that includes all given Locations

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD