PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

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

Class DisjointSet<E>

java.lang.Object DisjointSet<E>

public class DisjointSet<E>
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

DisjointSet(java.lang.Iterable<E> items)

initializes a new DisjointSet by - creating a hash map of E (type for key) and DSNode (type for value).

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Type Method		d Description		
E	A recursive a with item in t	<pre>findRep(E item) A recursive approach that finds the DSNode object associated with item in the hash map and returns the representative of the set item belongs to.</pre>		
E	An iterative a with item in t	<pre>findRepIter(E item) An iterative approach that finds the DSNode object associated with item in the hash map and returns the representative of the set item belongs to.</pre>		
static void	d main(java.lang.String[] args)			
java.lang.Stri		toString() Represent the set of disjointed sets in String format		

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void

union(E d1, E d2)

performs a union operation on the two sets d1 and d2 belong to if necessary:

Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

DisjointSet

public DisjointSet(java.lang.Iterable<E> items)

initializes a new DisjointSet by - creating a hash map of E (type for key) and DSNode (type for value). - for each item in items, create a new DSNode object as a wrapper for it and add (item, DSNode object) to the hash map

Parameters:

items -

Method Detail

findRepIter

public E findRepIter(E item)

An iterative approach that finds the DSNode object associated with item in the hash map and returns the representative of the set item belongs to.

Parameters:

item - the target item

Returns:

the representative of the target item

findRep

public E findRep(E item)

A recursive approach that finds the DSNode object associated with item in the hash map and returns the representative of the set item belongs to.

Parameters:

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item - the target item

Returns:

the representative of the target item

union

performs a union operation on the two sets d1 and d2 belong to if necessary:

Parameters:

d1 - the first set

d2 - the second set

toString

public java.lang.String toString()

Represent the set of disjointed sets in String format

Overrides:

toString in class java.lang.Object

Returns:

the string represetation of the disjointed sets

main

public static void main(java.lang.String[] args)

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