homework 7

Tuesday, October 6, 2020 2:54 PM

hw 7.1

- 1. my address class is the same as LP class;
- 2. read Collection, ArrayList;
- 3. read Collection.sort() description;
- 4. figure out sorting rules;
- Your program should compile, without warnings, with the provided Test.java program.
- You must be able to sort the storage space used with Collections.sort(aListOfAddresses).

hw 7.2

- 1. implement binary search tree;
- 2. delete(): use which ? == or equals();
- 3. no restrictions on what could be put in the BSF;
- 4. 存String, Integer, LP, Address;
- 5. 不能使用ArrayList;
- 6. SortedStorage 要求:
 - 1) 能存NULL,并指示现在储存了NULL了么;
- 7. 以下代码删除哪个"1"?

aStorageInterfaceString.add("1");

aStorageInterfaceString.add("1");

aStorageInterfaceString.add(new String("1"));

aStorageInterfaceString.delete(new String("1"));

aStorageInterfaceString.delete("1");

Solution: 先检查 == ,没有再检查equals,但找到都只删除一次;

- 8. 可以多次添加同一个对象;
- 9. 必须添加NULL多于1次,加入都少个删除多个NULL; 规定null比任何对象都小,只能等于自己,也就是说null节点一定存储在tree的最左端; 同时相等的元素都添加到右子树上面;
- 10. 插入元素时就需要排序,不能插入以后再排序;(还需要解释为什么)
- 11. 需要有test class;
- 12. 不能使用@SuppressWarnings("unchecked");
- 13. 使用 -Xlint 消除所有警告;
- 14. 不能使用课程以外的知识;

@fengkeyleaf

Java 集合框架

https://www.runoob.com/java/java-collections.html

Class Collections

 $\frac{https://www.runoob.com/manual/jdk11api/java.base/java/util/Collection.html}{https://docs.oracle.com/en/java/javase/14/docs/api/java.base/java/util/Collections.html}$

Java ArrayList

https://www.runoob.com/java/java-arraylist.html

https://www.runoob.com/manual/jdk11api/java.base/java/util/ArrayList.html https://docs.oracle.com/en/java/javase/14/docs/api/java.base/java/util/ArrayList.html

Interface Comparator<T>

https://docs.oracle.com/en/java/javase/14/docs/api/java.base/java/util/Comparator.html

Interface Comparable < T >

https://docs.oracle.com/en/java/javase/14/docs/api/java.base/java/lang/Comparable.html

Compares this object with the specified object for order. Returns a negative integer, zero, or a positive integer as this object is less than, equal to, or greater than the specified object.

二叉排序树 (BST查找、插入、删除、遍历) ——基于树的查找 (一)

https://blog.csdn.net/weixin 39651041/article/details/80022177

class Node<F>:

https://www.cs.rit.edu/~hpb/Lectures/2201/605/605-145.html

A Binary Search Tree

https://www.cs.rit.edu/~hpb/Lectures/2201/605/605-135.html