Cse 222 HW06

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GITPriorityQueue

GITPriorityQueue class implements PriorityQueue interface that has methods:

- offer
- element
- poll
- peek
- remove

Book's KWPriorityQueue's has ArrayList data. But we will use BinaryTree class to keep data.

With these interface methods we will manipulate tree.

BinaryTree class has different methods from book:

- setRightSubtree
- setLeftSubtree

to add or change children

GITPritoryQueue class also extends BinaryTree.This mean we can reach protected node datas.

Offer method adds item to tree and moves item to correct place.With Integer data type root data has minumum value. With other Objects pritorty can be declare with 1/compare value

These proccess should be in Comparator class of object. If object hasn't comparator class default compare is objects.compareTo method.

Element method gets root of tree(high priority) data if tree null throws exception

Remove method gets root of tree(high priority) data and removes data from tree if tree null throws exception

Poll method gets root of tree(high priority) data and removes data from tree if tree null returns null

Peek method gets root of tree(high priority) data if tree null returns null