

Issues with using or implementing a Hash Table:

Client/User has to do the following:

1. implement the hashCode function on the key

Implementor of the Hash Table based Dictionary has to handle the following for a Library Data Structure:

1. implement compression function (hc --> index)
2. handle collisions (chaining or probing)
3. load factor .75, increase 1.5 times which changes load factor to .5 (table size prime #)

Algorithm sortRBG(L)

curr := L.first()

while !L.isLast(curr) /\ color(curr.element()) = Red do

curr := L.after(curr)

nextRed := curr

while !L.isLast(curr) do

curr := L.after(curr)

if curr.element().color() = Red then

L.swapElements(curr, nextRed)

nextRed := L.after(nextRed)

curr := nextRed

while !L.isLast(curr) /\ color(curr.element()) = Blue do

curr := L.after(curr)

nextBlue := curr

while !L.isLast(curr) do

curr := L.after(curr)

if curr.element().color() = Blue then

L.swapElements(curr, nextBlue)

nextBlue := L.after(nextBlue)