```
T(n) = T(n/(4/3)) + 2cn
log_b 1 = 0 where b=4/3
theta(n)
Algorithm sortRBG(L)
        B := new array(3)
1
        for i = 0 to 2 do
1
           B[i] := new List
        while !L.isEmpty() do
n
           e := L.remove(L.first())
n
           if color(e) = red then
n
                 B[0].insertLast(e)
n
n
           else if color(e) = blue the
                 B[1].insertLast(e)
n
           else B[2].insertLast(e)
n
        for i = 0 to 2 do
1
           while ! B[i].isEmpty() do
n
                e := B[i].remove(B[i].first())
n
                L.insertLast(e)
n
Algorithm sortRBG(L)
        B := new Priority Queue
1
        while !L.isEmpty() do
n
           e := L.remove(L.first())
n
           if color(e) = red then
n
nlogn
                 B.insertItem(1, e)
           else if color(e) = blue the
n
nlogn
                 B.insertItem(2, e)
nlogn
           else B. insertItem(3, e)
```

while! B.isEmpty() do

e := B.removeMin() L.insertLast(e)

nlogn

```
Algorithm sortRBG(L)
        nextRed := L.first()
        while !L.isLast(nextRed) /\ nextRed.element().color() = Red do
                nextRed := L.after(nextRed)
        curr := nextRed
        while !L.isLast(curr) do
                curr := L.after(curr)
                if curr.element().color() = Red then
                         L.swapElements(nextRed, curr)
                         nextRed := L.after(nextRed)
Algorithm sortRBG(L)
        next := partitionHelper(L, L.first(), Red)
        partitionHelper(L, next, Blue)
Algorithm partitionHelper(L, next, color)
        while !L.isLast(next) /\ next.element().color() = color do
                next := L.after(next)
        curr := next
        while !L.isLast(curr) do
                curr := L.after(curr)
                if curr.element().color() = color then
                         L.swapElements(next, curr)
                        next := L.after(next)
        return next
```