

Red-black BST representation

Each node is pointed to by precisely one link (from its parent) \Rightarrow
can encode color of links in nodes.

```
private static final boolean RED    = true;  
private static final boolean BLACK = false;
```

```
private class Node  
{  
    Key key;  
    Value val;  
    Node left, right;  
    boolean color;    // color of parent link  
}
```

```
private boolean isRed(Node x)  
{  
    if (x == null) return false;  
    return x.color == RED;  
}
```

null links are black

