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/**
 *
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 */
public class HuffNode{

// Field

// The freq of the HuffNode
    private int freq;
    private final Object data;

// Nodes representing potential related Nodes
    public HuffNode rchild = null;
    public HuffNode lchild = null;
    public HuffNode parent = null;

    /**
     * Constructor, takes an int, that is used as freq for Node
     *
     * @param newFreq
     */
    HuffNode(){
        freq = -1;
        data = null;
    }

    /**
     * Constructor, takes an int, that is used as freq for Node
     *
     * @param newFreq
     */
    HuffNode(int newFreq, Object newData){
        freq = newFreq;
        data = newData;
    }

    /**
     * Constructor for converting an element to a HuffNode
     *
     * @param newFreq
     */
    HuffNode(Element el){
        freq = el.getFreq();

        if(el.getData().getClass() == HuffNode.class)

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{
    HuffNode tmp = (HuffNode) el.getData();
    data = null;
    rchild = tmp.getRchild();
    lchild = tmp.getLchild();
    parent = tmp.getParent();
}
else
{
    data = el.getData();
}
}

/**
 * Getter for the HuffNode's freq
 *
 * @param newFreq
 */
public void setFreq(int newFreq){
    freq = newFreq;
}

/**
 * Getter for the HuffNode's freq
 *
 * @return int freq of the HuffNode
 */
public int getFreq(){
    int tmp = freq;
    return tmp;
}

/**
 * Getter for the HuffNode's freq
 *
 * @return int freq of the HuffNode
 */
public Object getData(){
    Object tmp = data;
    return tmp;
}

/**
 * Getter for the HuffNode's right child
 *
 * @return HuffNode right child of the HuffNode
 */
```

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    */
    public HuffNode getRchild(){
        return this.rchild;
    }

    /**
     * Getter for the HuffNode's left child
     *
     * @return HuffNode left child of the HuffNode
     */
    public HuffNode getLchild(){
        return this.lchild;
    }

    /**
     * Getter for the HuffNode's parent
     *
     * @return HuffNode parent of the HuffNode
     */
    public HuffNode getParent(){
        return this.parent;
    }

    /**
     * Setter for the HuffNode's right child
     *
     * @param newNode HuffNode, new right child of the HuffNodeSystem.out.println();
     */
    public void setRchild(HuffNode newNode){
        this.rchild = newNode;
    }

    /**
     * Setter for the HuffNode's left child
     *
     * @param newNode HuffNode, new left child of the HuffNode
     */
    public void setLchild(HuffNode newNode){
        this.lchild = newNode;
    }

    /**
     * Setter for the HuffNode's parent
     *
     * @param newNode HuffNode, new parent of the HuffNode
     */
    public void setParent(HuffNode newNode){
        this.parent = newNode;
    }

```

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}
```