PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Class HuffmanTree

java.lang.Object
    HuffmanTree

```
public class HuffmanTree
extends java.lang.Object
```

Constructor Summary

Constructors

Constructor and Description
`HuffmanTree(java.util.TreeMap<java.lang.Character,java.lang.Integer> frequencies)` build a Huffman tree using the given characters and corresponding frequencies

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type	Method and Description
`char`	`decode(java.lang.String code)` decode the code
`java.lang.String`	`encode(char symbol)` recursive method binary encoding of the given symbol using binary characters '0' and '1'
`java.lang.String`	`encodeLoop(char symbol)` binary encoding of the given symbol using binary characters '0' and '1'
`char`	`readCode(BitInputStream stream)` read the next symbol of binary encoding individual bits from BitInputStream and return the corresponding characters
`boolean`	`writeCode(char symbol, BitOutputStream stream)` write the individual bits of the given symbol using encoding to bitOutputStream

Methods inherited from class java.lang.Object

```
equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait
```

Constructor Detail

HuffmanTree

```
public HuffmanTree(java.util.TreeMap<java.lang.Character,java.lang.Integer> frequencies)
```

build a Huffman tree using the given characters and corresponding frequencies

Parameters:

frequencies - the corresponding frequencies of given character

Method Detail

encodeLoop

```
public java.lang.String encodeLoop(char symbol)
```

binary encoding of the given symbol using binary characters '0' and '1'

Parameters:

symbol - the given symbol

Returns:

the string of binary encoding

encode

```
public java.lang.String encode(char symbol)
```

recursive method binary encoding of the given symbol using binary characters '0' and '1'

Parameters:

symbol - the given symbol

Returns:

the string of binary encoding

decode

```
public char decode(java.lang.String code)
```

decode the code

Parameters:

code - the given code

Returns:

the symbol of corresponding to the given code

writeCode

```
public boolean writeCode(char symbol,
                         BitOutputStream stream)
```

write the individual bits of the given symbol using encoding to bitOutputStream

Parameters:

symbol - the given symbol

stream - the output stream

Returns:

return true if written success

readCode

```
public char readCode(BitInputStream stream)
```

read the next symbol of binary encoding individual bits from BitInputStream and return the corresponding characters

Parameters:

stream - the input stream

Returns:

the corresponding character

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