

1.

```
boolean isSimilar(BTtree a,BTtree b)
{
    if (a==null && b==null) return true;
    if (a==null || b==null) return false;
    return (isSimilar(a.lch,b.lch)&isSimilar(a.rch,b.rch));
}
```

2.

□

content|huffman code -| 0|001 1|0000 2|01011 3|010001 4|1100 5|0001 6|01010 7|1101 8|1110 9|1111 colon|010000 newline|01001 space|011  
comma|10

compress efficiency:  $(1-12914/14592)=11.50\%$