Huffman Coding

- Sort the characters by their frequency

- Start building the tree from bottom

- Merge the first two trees from the list

  - Add frequencies of two roots

  - Move the merged tree to keep the list sorted
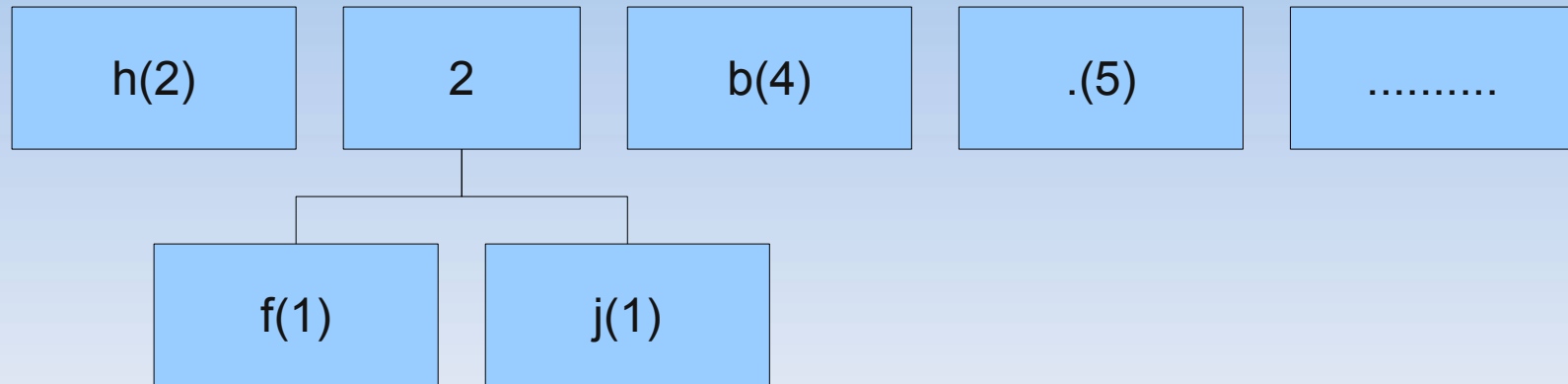
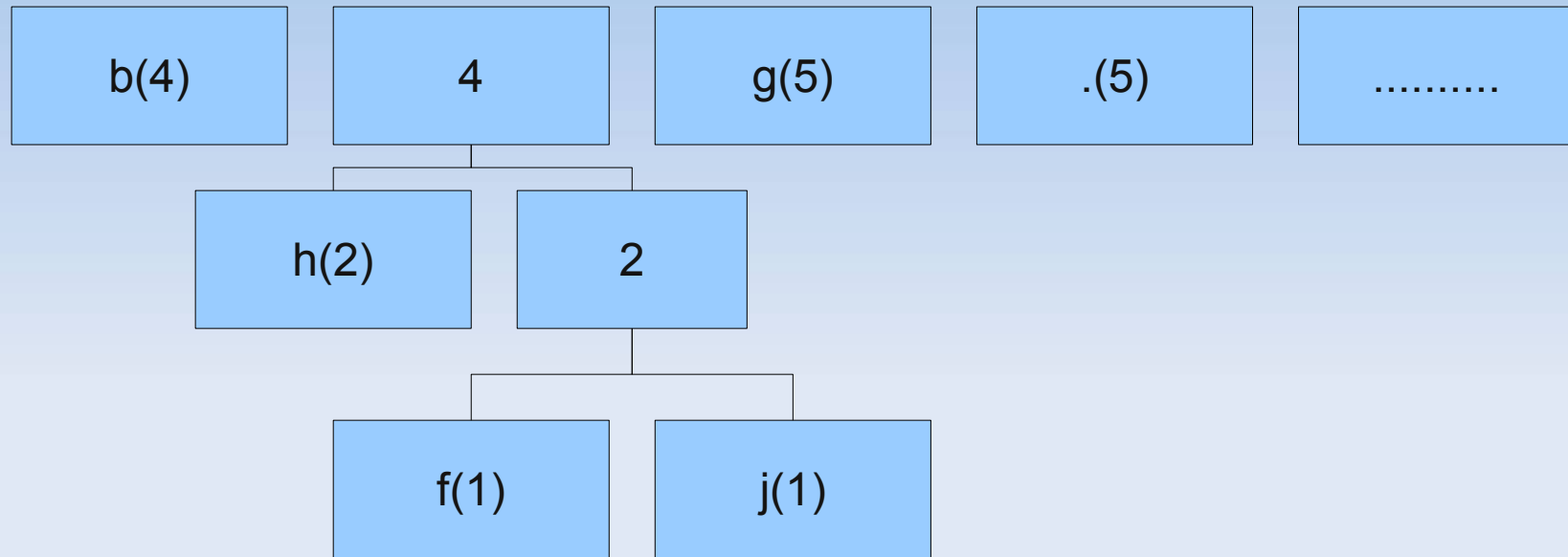# Sort the characters by their frequency

f(1)	j(1)	h(2)	b(4)	....

Building the tree

h(2)	2	b(4)	.(5)	....

f(1)	j(1)

Building the tree

```
b(4)        4         g(5)        .(5)      ..........

         h(2)    2

              f(1)    j(1)
```

Building the tree
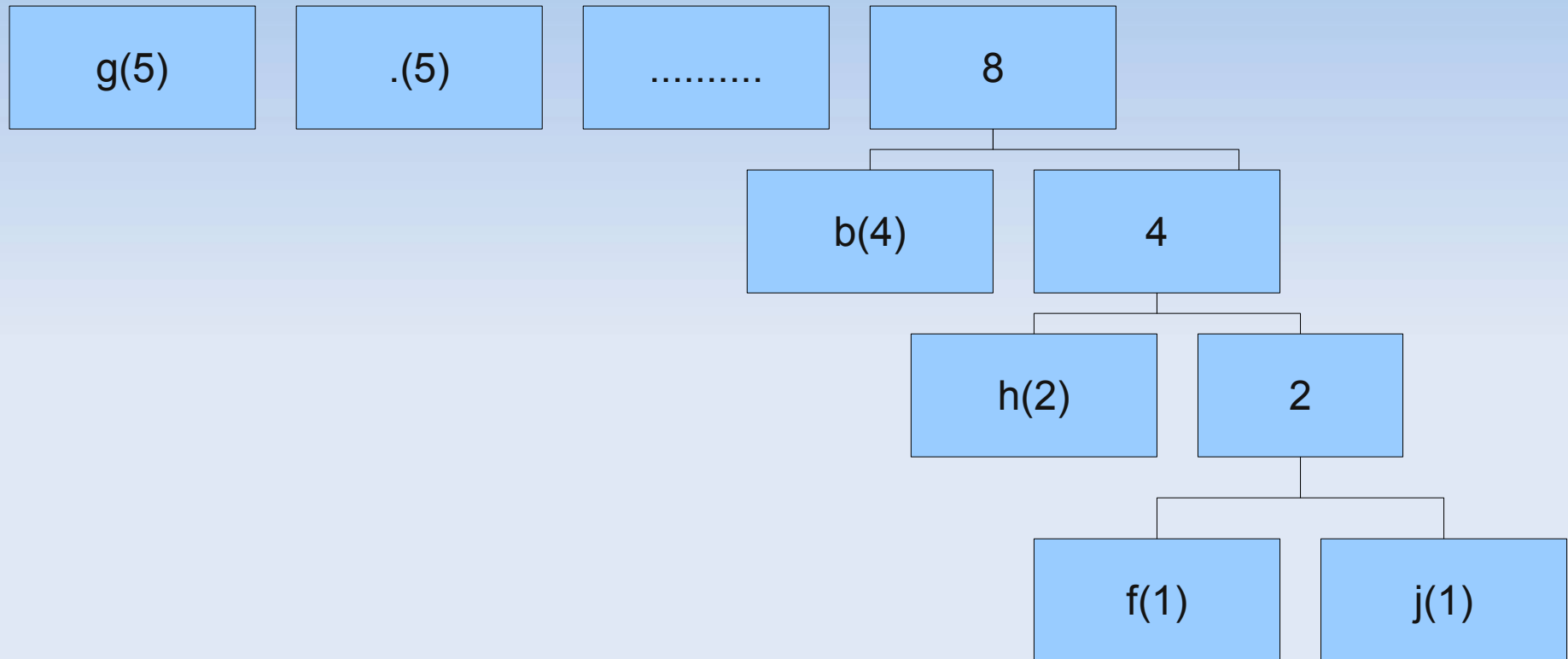
Building the tree

g(5)	.(5)	q(6)	n(7)	....

Building the tree

q(6)	n(7)	....	10

```
              10
         ┌────┴────┐
       g(5)      .(5)
```

Building the tree

q(6)	n(7)	v(7)	c(8)	....

Building the tree

v(7)	c(8)	....	13

For the node labeled 13:
- q(6)
- n(7)

Building the tree