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(4.33)

Diagram illustrating the construction of a Huffman tree for a set of characters and their frequencies. The characters and their frequencies are listed at the bottom: a (1), b (3), c (3), d (9), e (1), f (4), g (6), h (3), i (1), j (1), k (4), l (4), m (4), n (4), o (4), p (4), q (4), r (4), s (4), t (4), u (4), v (4), w (4), x (4), y (4), z (4). The tree is built by repeatedly combining the two smallest trees into a new parent node. The final tree is a balanced binary tree where the root node has two children, each of which is a leaf node representing a character. The root node is labeled 'a' and has a frequency of 39.7. The left child is labeled 'b' and has a frequency of 3. The right child is labeled 'c' and has a frequency of 3. The tree is then traversed to produce the Huffman code for each character.

The image displays a 15x15 grid of 225 squares. Each square contains a 2D barcode, which is a pattern of black and white squares. The barcodes are arranged in a grid, with each square containing a unique pattern. The overall effect is a complex, textured surface composed of these small, repeating units.

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49.1 (
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50.1 (
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51.1 (
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The diagram illustrates the construction of a Huffman tree from 10 leaf nodes. The nodes are represented by rectangles, and the edges represent the binary tree structure. The construction proceeds through 9 steps, with the final tree structure shown at the bottom.

Initial Nodes (Step 0): 10 individual leaf nodes labeled 1 through 10.

Step 1: Node 1 and Node 2 are merged into an internal node labeled 1111.

Step 2: Node 3 and Node 4 are merged into an internal node labeled 1110.

Step 3: Node 5 and Node 6 are merged into an internal node labeled 1101.

Step 4: Node 7 and Node 8 are merged into an internal node labeled 1100.

Step 5: Node 9 and Node 10 are merged into an internal node labeled 1011.

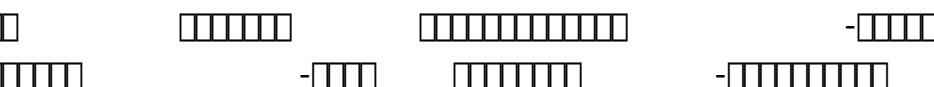
Step 6: The internal node 1111 and the internal node 1110 are merged into an internal node labeled 111.

Step 7: The internal node 1101 and the internal node 1100 are merged into an internal node labeled 110.

Step 8: The internal node 111 and the internal node 110 are merged into an internal node labeled 11.

Step 9: The internal node 11 and the internal node 1011 are merged into the root node labeled 1.

Final Tree Structure: The root node 1 branches into 11 and 1011. Node 11 branches into 111 and 110. Node 111 branches into 1111 and 1110. Node 1111 branches into 1 and 2. Node 1110 branches into 3 and 4. Node 110 branches into 1101 and 1100. Node 1101 branches into 5 and 6. Node 1100 branches into 7 and 8. Node 1011 branches into 9 and 10.



$$\begin{array}{|c|} \hline \\ \hline \end{array} \quad (4.55)$$

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