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- 1. List the members of your group below. Underline your name.
- 2. State (1) which of the following *codes* are *prefix-free* and (2) which are *fixed-length*, explaining your answers.
 - (a) (a, b, c, d) = (00, 01, 10, 11)
 - (b) (a, b, c, d) = (0, 10, 11, 1)
 - (c) (a, b, c, d) = (0, 10, 11, 101)
- 3. Depict trees similar to those in the textbook's Figure 15.5 (p. 433) for each of the codes of Question 2, using the frequencies (30, 10, 40, 5) for (a, b, c, d) respectively. Compute the *cost* of each tree.

4. Trace the execution of the textbook's HUFFMAN pseudocode (p. 434) on the input of Question 3, using the textbook's Figure 15.6 (p. 435) as a model.

Frequencies: $(a, b, c, d) \mapsto (30, 10, 40, 5)$