Counting System

5
1   3
6
2   4
7

1011111   0001100   1110110   1111100   0101101

1111001   1111011   0011100   1111111   1111101
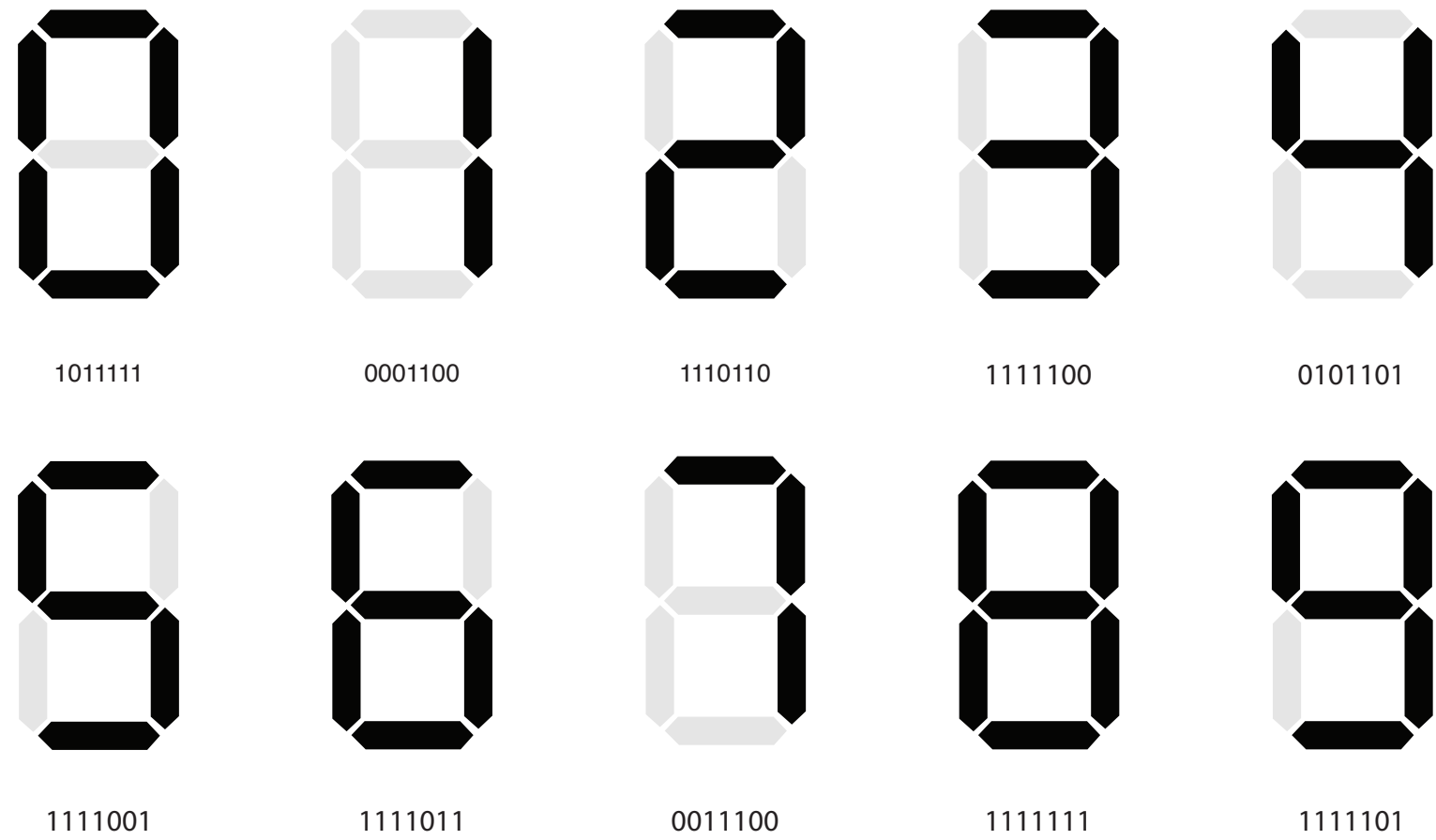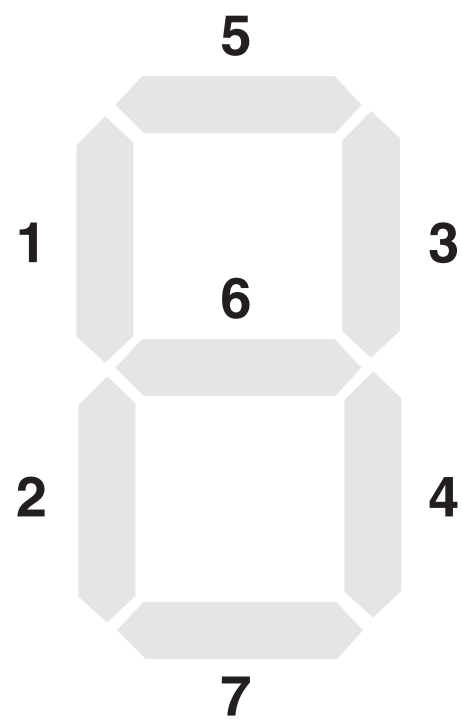
Our data contains sequences of numbers consisting of 0's and 1's. The interface links each digit in a sequence with a segment in the display; 0 for the digit turns the segment display off, and 1 turns it on. Hence, a sequence in the data exactly determines what is being displayed: which subset of the segments are being turned on.