

## Blue Suede Shoes

$$1 = C$$

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The diagram illustrates the binary representation of a sequence of numbers across three vertical lines. The numbers are 7, 5, 3, and 1. Their binary representations are shown as horizontal bars above the lines, with labels  $b_7$ ,  $b_5$ ,  $b_3$ , and  $b_1$  indicating the bit positions. The first line shows the sequence 7, 5, 3, 1. The second line shows the sequence 5, 5, 5, 1. The third line shows the sequence 1, 1, 1, 1. The labels  $b_7$ ,  $b_5$ ,  $b_3$ , and  $b_1$  are placed below the bars to indicate the bit positions.

Diagram illustrating a quantum circuit with three qubits. The circuit consists of several gates (represented by blue bars) and measurements (represented by vertical lines). The gates are labeled with numbers 5, 3, and 1. The measurements are labeled with  $5^7$ ,  $5^{sus4add7}$ , and 1.

Diagram illustrating a sequence of values (5, 6, 5) corresponding to positions, with the label  $N.C.$  below the first value.

Diagram illustrating the evolution of a quantum state across four stages, separated by vertical lines. The stages are labeled 1, N.C., 1, N.C., and 1.

- Stage 1:** A qubit is shown with a 1 and a 3.
- Stage 2:** A qubit is shown with a 1 and a 3.
- Stage 3:** A qubit is shown with a 1 and a 3.
- Stage 4:** A qubit is shown with a 1 and a 6.

