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Quantum computing is computing using quantum-mechanical phenomena, such as superposition and entanglement. A quantum computer is a device that performs quantum computing.

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with $|0\rangle$ and $|1\rangle$ two reference qubits, corresponding to two orthogonal states in a quantum system. The qubits $|0\rangle$ ($\hat{I}^1 = 1, \hat{I}^2 = 0$) and $|1\rangle$ ($\hat{I}^1 = 0, \hat{I}^2 = 1$) may be thought of as the quantum equivalent of the bits 0 and 1, respectively.

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