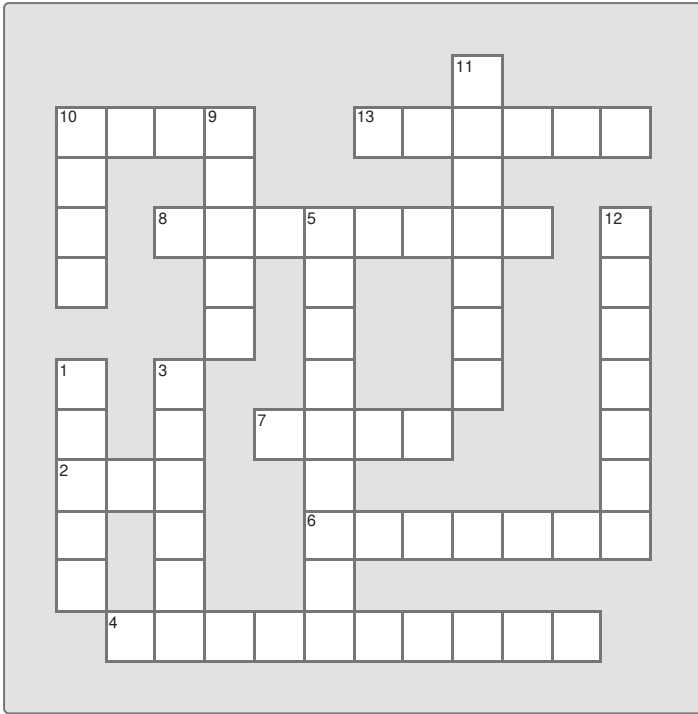# Quantum Computing Crossword

Across

2 A vector that represents the complex conjugate transpose of a ket vector.

4 A principle that states that the position and momentum of a particle cannot be measured simultaneously.

6 A matrix that preserves the inner product of vectors.

7 A quantum computer that is not fault-tolerant.

8 A gate that creates superposition.

10 A gate that exchanges the states of two qubits.

13 An algorithm for searching an unsorted database.

Down

1 The basic unit of quantum information.

3 A black box that performs a specific function.

5 The height of a wave.

9 The angle of a wave.

10 An algorithm for factoring large numbers.

11 A transform that decomposes a function into its frequency components.

12 A matrix that describes the state of a quantum system.