**Properties:**

1. When estimating the phase of a unitary gate, if QPE is ran with different amounts of estimation qubits, the QPE run with more estimation qubits will be closer to the expected value.
2. When estimating the phase of a unitary gate, if QPE is ran with different amounts of estimation qubits, the QPE run with less estimation qubits will be further to the expected value.
3. Most results generated by the algorithm should be for the qubit string that generates the closest phase to the one entered into the algorithm.
4. The same bitstring should be generated (100%) with certainty when phase entered is an exact multiple of where N = amount of estimation qubits and N > 0. (Assuming the simulator is without noise)