1) Implement teleportation fault-tolerantly. Please use the 7 qubit Steane code. Make sure that each coded operation is fault-tolerant and that your error correction procedure is fault-tolerant.

For this assignment it will be helpful to make the following procedures:

AncillaCreate7()
ErrorCorrect7()
H7()
CNot7()
X7()
Z7()

Make sure that you measure the stabilizers fault-tolerantly (i.e. at least twice).

* Also, for fun, make an error in one of the physical qubits, and not how your ErrorCorrect7() procedure fixes it.