Name: Zoe Yow Cui Yi

Student ID: 33214476

Context-free Grammar (CFG) for the ~~language~~ language QCIRC

over the eleven-symbol alphabet

$$\{I, H, X, Y, Z, CNOT, TOF, *, \otimes, (,)\}$$

$$S \rightarrow Q$$

$$Q \rightarrow I \mid H \mid X \mid Y \mid Z \mid CNOT \mid TOF \mid (Q) \mid Q * Q \mid Q \otimes Q$$