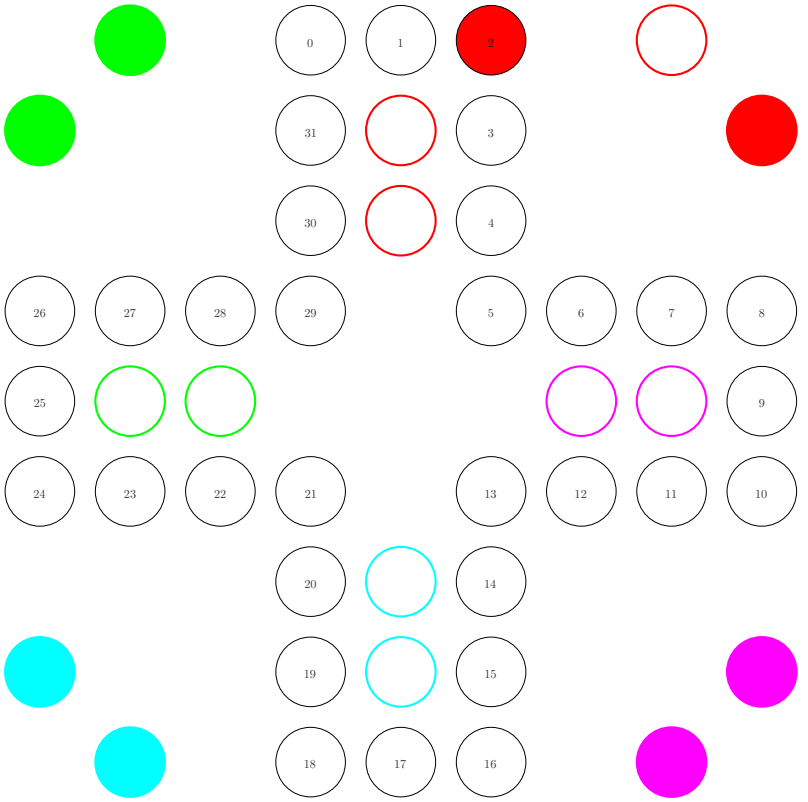
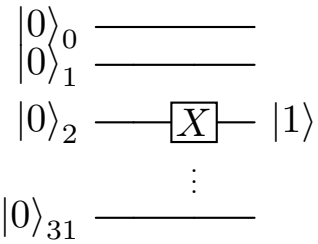
Board



Quantum circuit



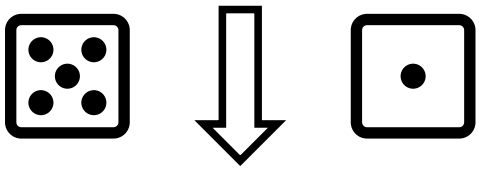
Python

Board

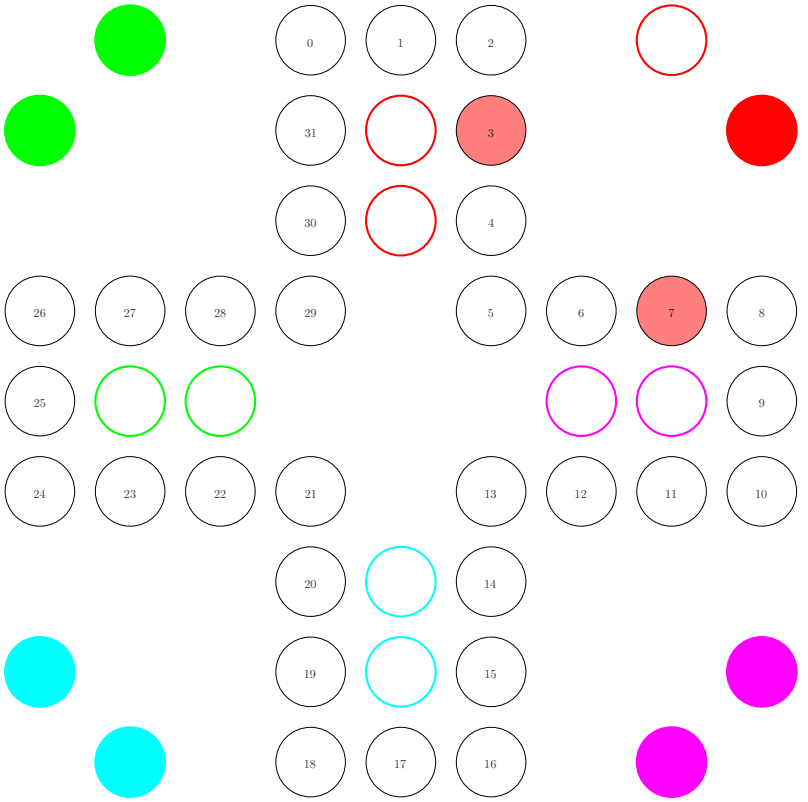
```
board = [None]*32
board[2] = {
   'color' : red,
   'probability' : 1,
   'pawn' : 1
}
```

Quantum

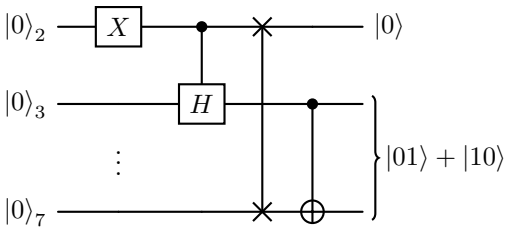
```
q = QuantumRegister(32, 'q')
circuit = QuantumCircuit(q)

circuit.x(q[2])
```



Board



Quantum circuit



Python

Board

```
board[2] = None
board[3, 7] = {
   'color' : red,
   'probability' : 0.5,
   'pawn' : 1}
```

Quantum

```
circuit.x(q[2], q[3])
circuit.ch(q[2], q[3])
circuit.swap(q[2], q[7])
circuit.cx(q[2], q[7])
```