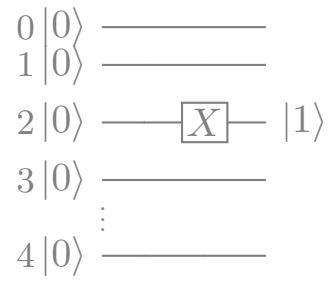


Quantum circuit



Python

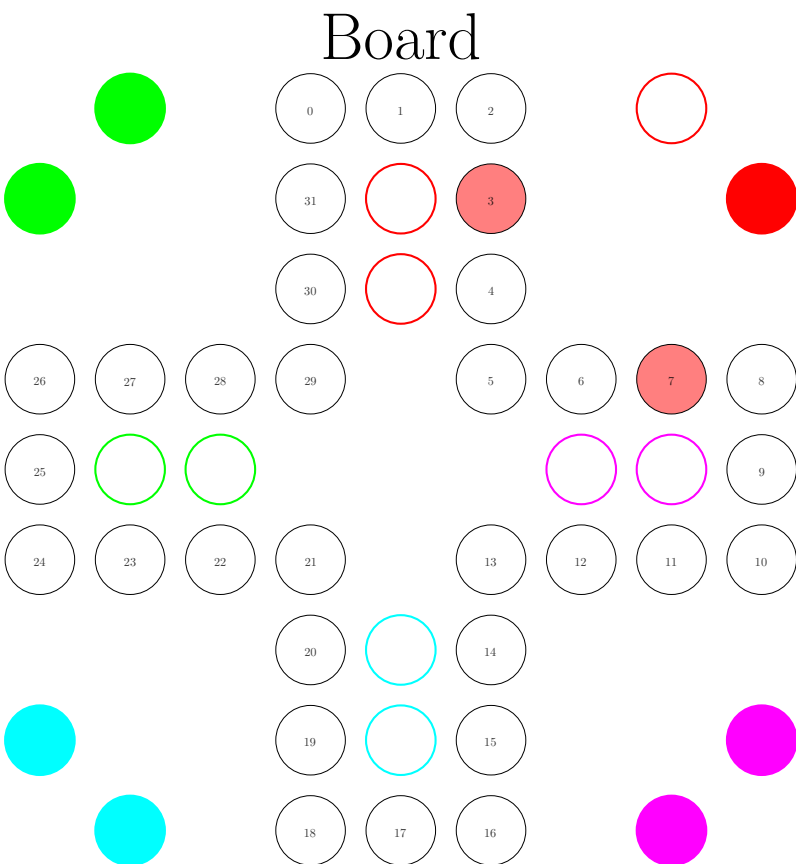
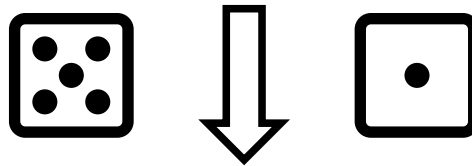
Board

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

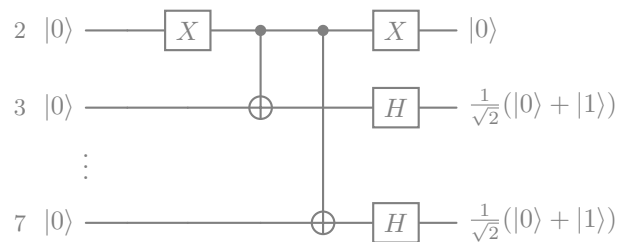
Quantum

```
q = QuantumRegister(10, 'q')
circuit = QuantumCircuit(q)

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



Quantum circuit



Python

Board

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

Quantum

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