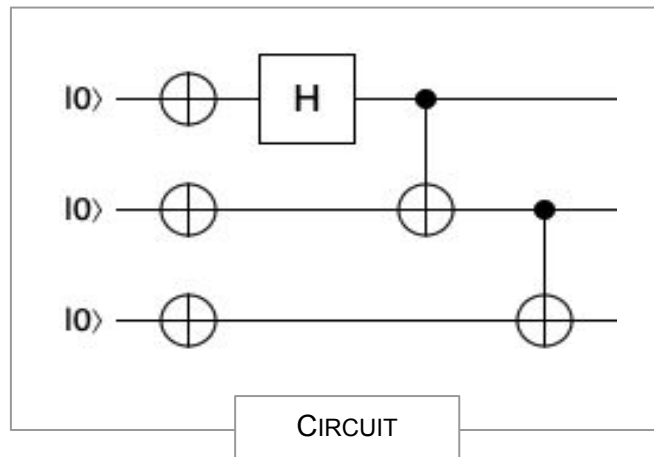


Practice Questions: GHZ

(True / False) The GHZ circuit defines how to entangle 3 qubits.

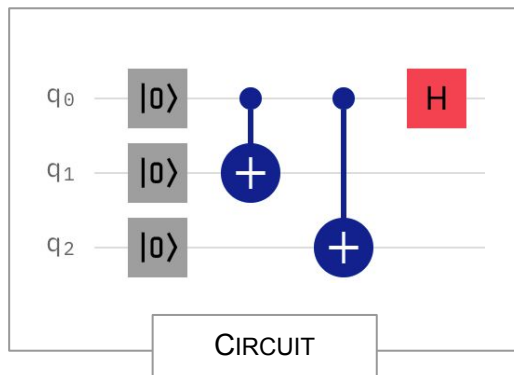
What is the state output from this circuit?

- a. $\frac{1}{\sqrt{2}}(|000\rangle + |111\rangle)$
- b. $\frac{1}{\sqrt{2}}(|010\rangle + |101\rangle)$
- c. $\frac{1}{\sqrt{2}}(|010\rangle - |101\rangle)$
- d. $\frac{1}{\sqrt{2}}(|000\rangle - |111\rangle)$



(True / False) The circuit pictured above generates a fully entangled state.

Select the true statement(s) about the circuit pictured below.



To create a GHZ state:

- a. The H gate should be placed before the first CNOT
- b. The first CNOT needs to be flipped upside down
- c. The second CNOT should connect q_0 and q_1 , not q_0 and q_2
- d. No changes are needed