

A. Is $H^{\otimes n} |\alpha\rangle$ a uniform superposition of classical states, for any classical $|\alpha\rangle$? Is $H^{\otimes n} |\alpha\rangle$ a uniform superposition of classical states, for non-classical $|\alpha\rangle$ as well?

B. Is the Deutsch problem a special case of the Bernstein-Vazirani problem?