A. Let $E Q_{D F A}=\{\langle A, B\rangle: A$ and $B$ are DFAs, and $L(A)=L(B)\}$. Describe a Turing machine that decides $E Q_{D F A}$ by testing $A$ and $B$ on all strings up to a certain length. Your answer should make clear exactly which length works, and how your Turing machine computes that length from its input.
B. Problem 4.12.

