Special Problem 5.5-1

For the circuit below, the DC solution has been evaluated, and the transconductance $g_m$ of each transistor has been found to be $g_m=1 \text{ mA/V}$.

The capacitors are very large.

Determine the small signal gain $A_v=v_o/v_i$ for this two transistor amplifier.

Note: Do not attempt to analyze this circuit for its DC parameters! You have enough information to proceed directly to the small-signal analysis and determine $A_v$. 

![Circuit Diagram]