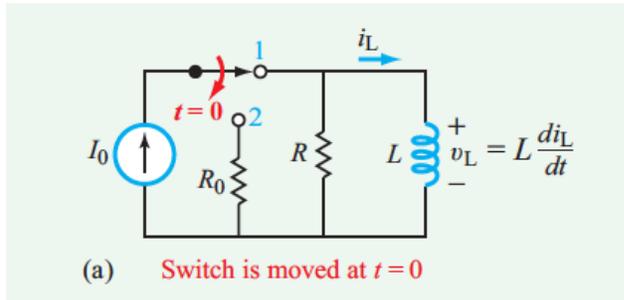


**Concept Question 5-23:** Suppose the switch in the circuit of Fig. 5-36(a) had been open for a long time, and then it was closed suddenly. Will  $I_s$  initially flow through  $R$  or  $L$ ?



It will flow through  $R$  because the current through an inductor cannot change instantaneously.