Calculation

The switch in the circuit shown has been open for a long time. At t = 0, the switch is closed.

What is I_L , the current in the inductor, immediately after the switch is closed?

A) $I_L = V/R_1$ up B) $I_L = V/R_1$ down C) $I_L = 0$ INDUCTORS: Current cannot change discontinuously ! Current through inductor immediately after switch is closed is the same as the current through inductor immediately before switch is closed Immediately before switch is closed: $I_L = 0$ since no battery in loop



