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In [4]: #Name: Mohith Dande
Solution:
1. Turn Switch A ON and leave it on for about 1—2 minutes.
2. After that time, turn Switch A OFF and immediately turn Switch B ON.
3. Leave Switch C OFF the whole time.
4. Now go into the other room (only once) and observe the bulb:
If the bulb is on, it's controlled by Switch B (you left B on).
If the bulb is off but warm/hot, it's controlled by Switch A,
  (it was on long enough to heat the bulb, then you turned it off).
If the bulb is off and cold, it's controlled by Switch C (never turned on).
That single visit gives you the identity of each switch.
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In [1]: