

# Rank the bulbs explain question

The switch in the circuit at right is originally closed.

- a. When the switch is closed, the ranking of the brightness of the bulbs is  $A = D > B = C$ . Explain why this ranking is observed. (If this ranking doesn't make sense, say why not or what you expected differently.)
- b. When the switch is opened, bulbs A and D get dimmer, bulb B gets brighter, and bulb C goes out (does not light). Explain why this is observed when the switch is opened. (Again, if it doesn't make sense, please say so, and why not.)

