Is it possible to light a bulb with a battery using only one wire?



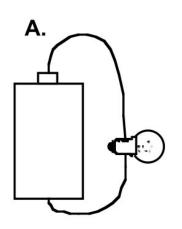
- B. No
- C. I have no idea

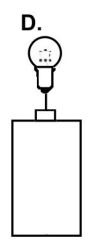


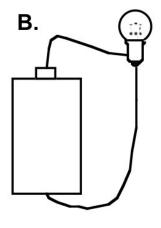
## Which of the arrangements shown will light the bulb?

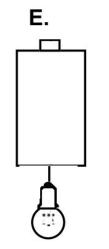


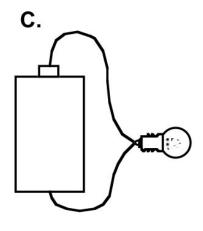
- 1. Only A
- 2. Only B
- 3. Only C
- 4. Only D
- 5. Only E
- 6. Only F
- 7. A & C
- 8. B&F
- 9. D&E

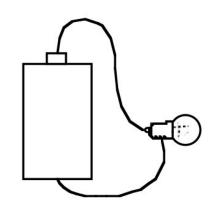










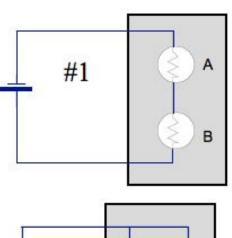


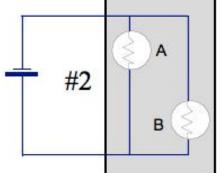
F.

## In the two cases shown here a battery is connected up to a box containing some identical bulbs. The battery maintains a constant potential difference $V_0$ across its terminals.

Which bulbs will be brighter?

- A in #1
- 2. B in #1
- 3. A and B in #1 (equal)
- 4. A in #2
- B in #2 5.
- 6. A and B in #2 (equal)
- 7. All 4 equal
- Other 8.

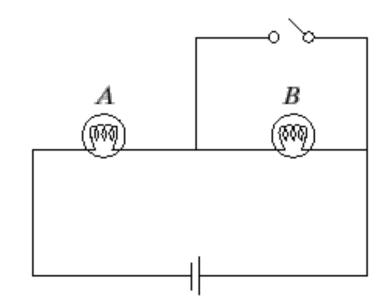






This circuit has two identical light bulbs burning with equal brightness and a single 12 V battery. When the switch is closed, the brightness of bulb A

- A. increases
- B. decreases
- C. decreases to 0
- D. remains the same





This circuit has two identical light bulbs burning with equal brightness and a single 12 V battery. When the switch is closed, the brightness of bulb B

- A. increases
- B. decreases
- C. decreases to 0
- D. remains the same

