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

A. Yes
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
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?

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