Which of the bulbs in the following circuit is (are) the brightest?

1. A
2. B
3. C
4. D
5. B and C
6. A and D
7. Something else
8. You can't tell from the information given


## Sample Problem

- How do the currents in resistors A and B compare?
- How do the voltage drops across resistors $A$ and $B$ compare?
- How does the current in and voltage drop across resistor C compare to those in A and
 B?
- Find the current in resistor D.

$$
I_{0}=V_{0} / R
$$

## Sample Problem

- If bulb D is removed from its socket, how does the brightness of the three bulbs $\mathrm{A}, \mathrm{B}$, and C change?


$$
I_{0}=V_{0} / R
$$

## Sample Problem

- If bulb D is put back in its socket, and now bulb C is removed, rank the brightness of the three bulbs A, B, and D?


$$
I_{0}=V_{0} / R
$$

## Use Kirchhoff's principles

 to find:- the current through each of the bulbs and
- the current through each of the batteries.


$$
\begin{aligned}
& \# 1=6 \mathrm{~V} \\
& \# 2=3 \mathrm{~V} \\
& \mathrm{~A}=\mathrm{B}=\mathrm{C}=3 \Omega
\end{aligned}
$$

