All bulbs have resistance $R$ and the battery provides a voltage $V$. If the current in bulb C is $I$, what is the current in bulb B ?
A. $I$
B. $2 I$
C. $I / 2$
D. 0
E. Something else
F. Cannot be determined


All bulbs have resistance $R$ and the battery provides a voltage $V$. If the current in bulb C is $I$, what is the current in bulb A?
A. $I$
B. $2 I$
C. $I / 2$
D. 0
E. Something else
F. Cannot be determined


All bulbs have resistance $R$ and the battery provides a voltage $V$. If the current in bulb C is $I$, what is the current in the battery?
A. I
B. 2I
C. I/2
D. 0
E. Something else
F. Cannot be determined


## Find the current through each bulbs and through each battery.

$$
R_{\mathrm{A}}=R_{\mathrm{B}}=R_{\mathrm{C}}=3 \Omega
$$



## Identical batteries are connected in

 different arrangements to the same light bulb. Rank these arrangements on the basis of bulb brightness from the highest to the lowest


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## When the set of batteries and bulbs are connected as shown

A. none of the bulbs will be lit.
B. only one of the bulbs will be lit.
C. all of the bulbs will be lit equally brightly.
D. all of the bulbs will be lit but they will not be equally bright.

E. you cannot tell which bulbs will be lit from the information given.

