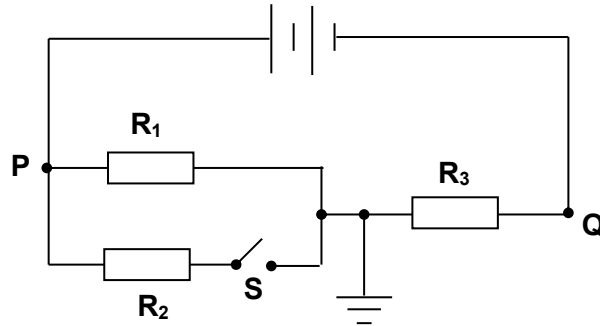


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Resistor R_1 , R_2 and R_3 are connected to a battery of constant e.m.f. with negligible internal resistance as shown below. Resistance of R_1 is twice the resistance of R_2 . R_2 and R_3 have identical resistance.



What will happen to the electric potential at P and at Q when the switch S is closed?

potential at P
potential at Q

A

unchanged
unchanged

B

increases

increases

C

increases

decreases

D

decreases

decreases