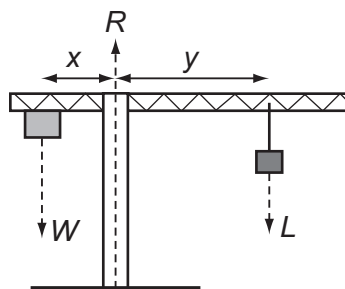
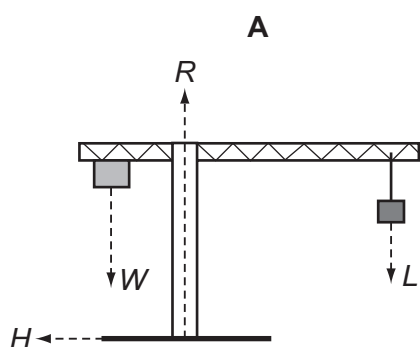


13 The diagram shows a crane supporting a load L .

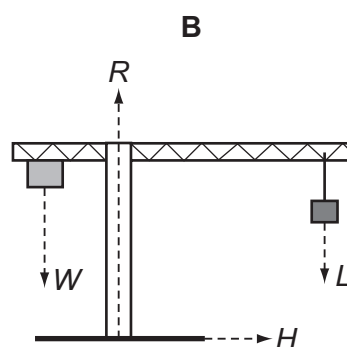


A mass provides a balancing load W . The position of the load is such that the system is perfectly balanced with $Wx = Ly$. The ground provides a reaction force R . The distance x does not change.

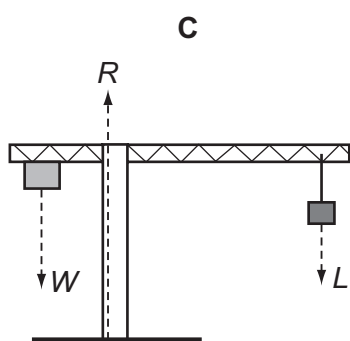
If the load is moved further out so that the distance y increases and the crane does not topple, which statement is correct?



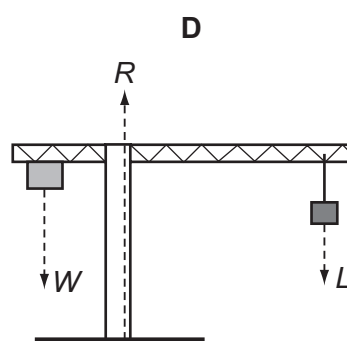
A horizontal force H acts on the base of the support column towards the left.



A horizontal force H acts on the base of the support column towards the right.



The reaction force R moves to the left.



The reaction force R moves to the right.

Space for working