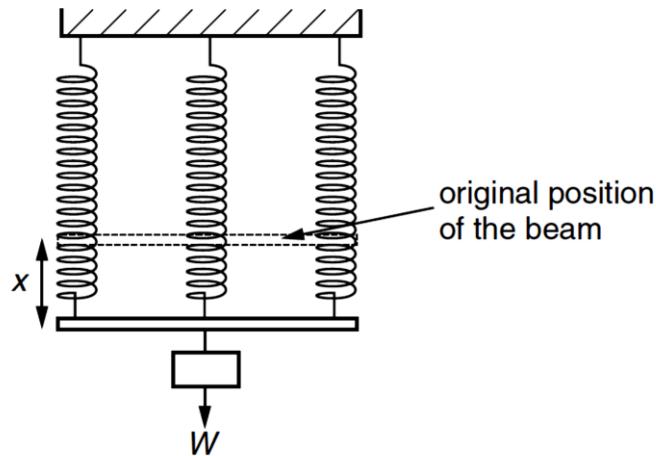


- 7 A beam, the weight of which may be neglected, is supported by three identical springs. When a weight  $W$  is hung from the middle of the beam, the extension of each spring is  $x$ .



The middle spring and the weight is removed.

What is the extension when a weight of  $2W$  is hung from the middle of the beam?

A  $\frac{4x}{3}$

B  $\frac{3x}{2}$

C  $2x$

D  $3x$