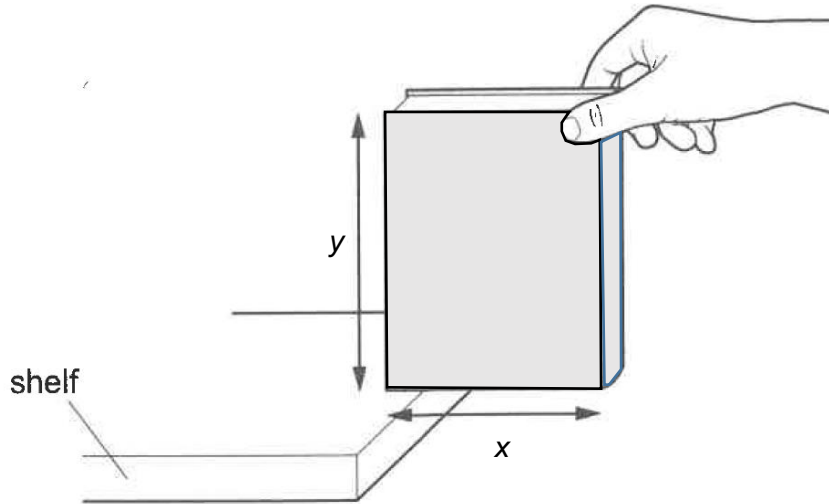**6** A student pulls a book from a shelf by its top corner, holding it between his forefinger and thumb. The book is uniform and has weight W and dimensions x and y as shown.

shelf

y

x

What moment must the student provide at the corner of the book to stop it from rotating just before it leaves the shelf?

A $\dfrac{Wy}{2}$ anticlockwise

B $\dfrac{Wx}{2}$ anticlockwise

C $\dfrac{W(y-x)}{2}$ clockwise

D Wx clockwise