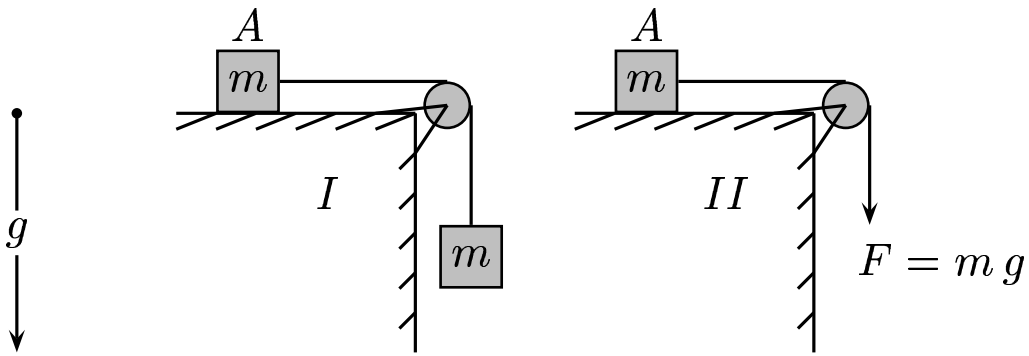


Consider acceleration of Block A across the table toward the pulley. Disregard the frictional forces.



The acceleration of block A is

- A) greater in case I.
- B) greater in case II.
- C) both are the same.

For case I, applying the “ $F = ma$ ” formula gives $mg = (m + m) a_I$. Or

$a_I = \frac{g}{2}$. For case II, correspondingly, $mg = ma_{II}$. It gives $a = g$. So the

second case has a greater acceleration. Answer **B**.

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