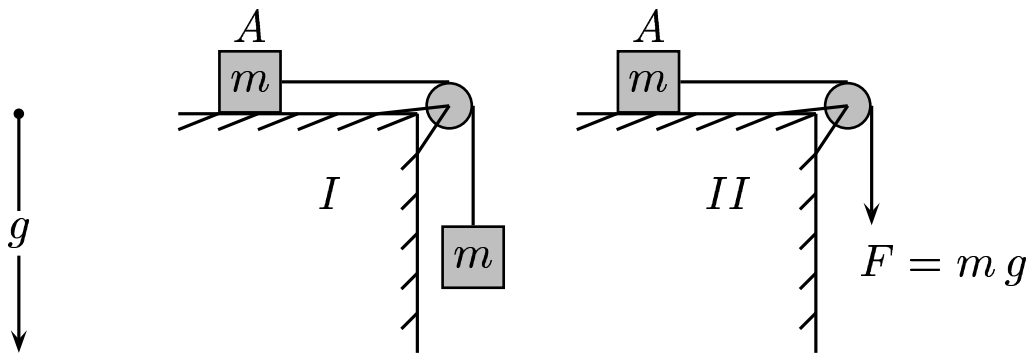


Consider acceleration of Block  $A$  across the table toward the pulley. Disregard the frictional forces.



The acceleration of block  $A$  is

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

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For case I, applying the “ $F = ma$ ” formula gives  $mg = (m + m) a_I$ . Or  $a_I = \frac{g}{2}$ . For case II, correspondingly,  $mg = m a_{II}$ . It gives  $a = g$ . So the second case has a greater acceleration. Answer **B**.