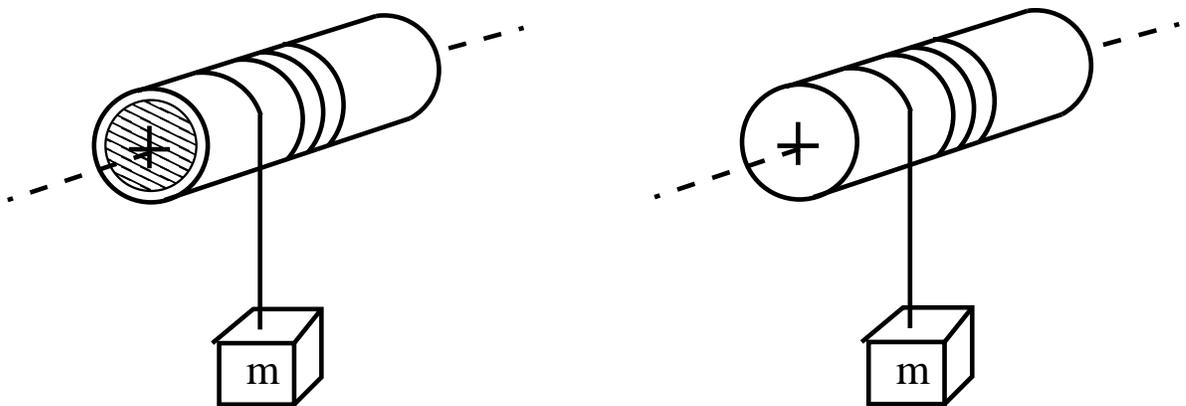


Two blocks of equal mass m hang from cords wrapped around two cylindrical spools which can rotate freely without friction. One cylinder, made of metal, is hollow. The other, made of plastic, is solid. Both cylinders have the same mass and radius.



When the blocks are released they accelerate slowly toward the ground. Which block reaches the ground first?

1. The block hanging from the hollow cylinder
2. The block hanging from the solid cylinder
3. Both reach the floor at the same time