

Jack is a production engineer at a bike company. Part of his job includes inspecting broken bikes and drafting the design plans for their repair. Therefore, when Jack drafts his design plans for the repair of the bike, he incorporates a more durable material for the cables. One day, Jack received instructions from his supervisor to repair a bike whose brake cables had snapped. When Jack inspects the bike, he notices the cables have snapped because they were made from a low-quality material. He suspects that this bike had been custom-designed, and that the customer simply did not know what materials would be best suited for the brake cables. Jack's design for the bike will change the look of the bike, but it will also make the bike more durable.