



You are assigned the task of creating a light fixture for use in a home. The resistors represent the filaments in the light bulb. The light bulb is supposed to be a three-way bulb with light of 50 Watts, 100 Watts, and 150Watts. When only switch A is closed, the bulb should consume 50Watts, 100 Watts when only switch B is close, and 150 Watts when both are closed. Design the resister values to match this case.