SE Concept Question 4

* Required

What is your full name? *
A balloon shall lift a payload of 1,000 kilograms, including its own mass. It can use either helium (rHe=0.2 kg/m3) or hydrogen (rH=0.1 kg/m3) as a lift gas. The standard density of air is rAir=1.3 kg/m3. * Which of the following requirements is infeasible? Select one answer.
A- The balloon shall have a radius of 6.1 meters. The balloon shall use 99.9% pure helium as a lift gas.
$_{\odot}$ B – The balloon shall have a radius of 5.9 meters. The balloon shall use 99.9% pure hydrogen as a lift gas.
○ C – The balloon shall have a radius of 5.9 meters. The balloon shall use 99.9% helium as a lift gas.
 D - The balloon shall have a radius of 6.1 meters. The balloon shall use 99.9% hydrogen as a lift gas.
○ E - All these requirements are okay.
○ F - None of these requirements are feasible.
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