## SE Concept Question 4

* Required

What is your full name? *
$\square$
A balloon shall lift a payload of 1,000 kilograms, including its own mass. It can use either helium ( $\mathrm{rHe}=0.2 \mathrm{~kg} / \mathrm{m} 3$ ) or hydrogen $(\mathrm{rH}=0.1 \mathrm{~kg} / \mathrm{m} 3)$ as a lift gas. The standard density of air is $\mathrm{rAir}=1.3 \mathrm{~kg} / \mathrm{m} 3$. *
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.
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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