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Testcase 1:

Input: Mass of the payload and user inputs the stage type, desired $\triangle V$, and TWR range

Expected output: a selection of sets of parts including the type and amount of engines, and amount and type of fuel tanks

Actual Output: a set of parts including the type and amount of engines, and amount and type of fuel tanks

Pass/Fail Criterion: the selection of sets of parts should be the most efficient sets of parts mass-wise to achieve the desired $\triangle V$, the only constraint with our calculated mass-performance efficiency is that the engines will be limited to 1.5m engines, and 1.5m fuel tanks or smaller. It also won't support asparagus staging, which is more efficient on paper, but harder to calculate

Testcase 2:

Input: Mass of everything so far and user inputs the stage type, desired $\triangle V$, and TWR range

Expected output: a set of parts including the type and amount of engines, and amount and type of fuel tanks

Actual Output: a set of parts including the type and amount of engines, and amount and type of fuel tanks

Pass/Fail Criterion: the selection of sets of parts should be the most efficient sets of parts mass-wise to achieve the desired $\triangle V$, the only constraint with our calculated mass-performance efficiency is that the engines will be limited to 1.5m engines, and 1.5m fuel tanks or smaller. It also won't support asparagus staging, which is more efficient on paper, but more difficult to calculate