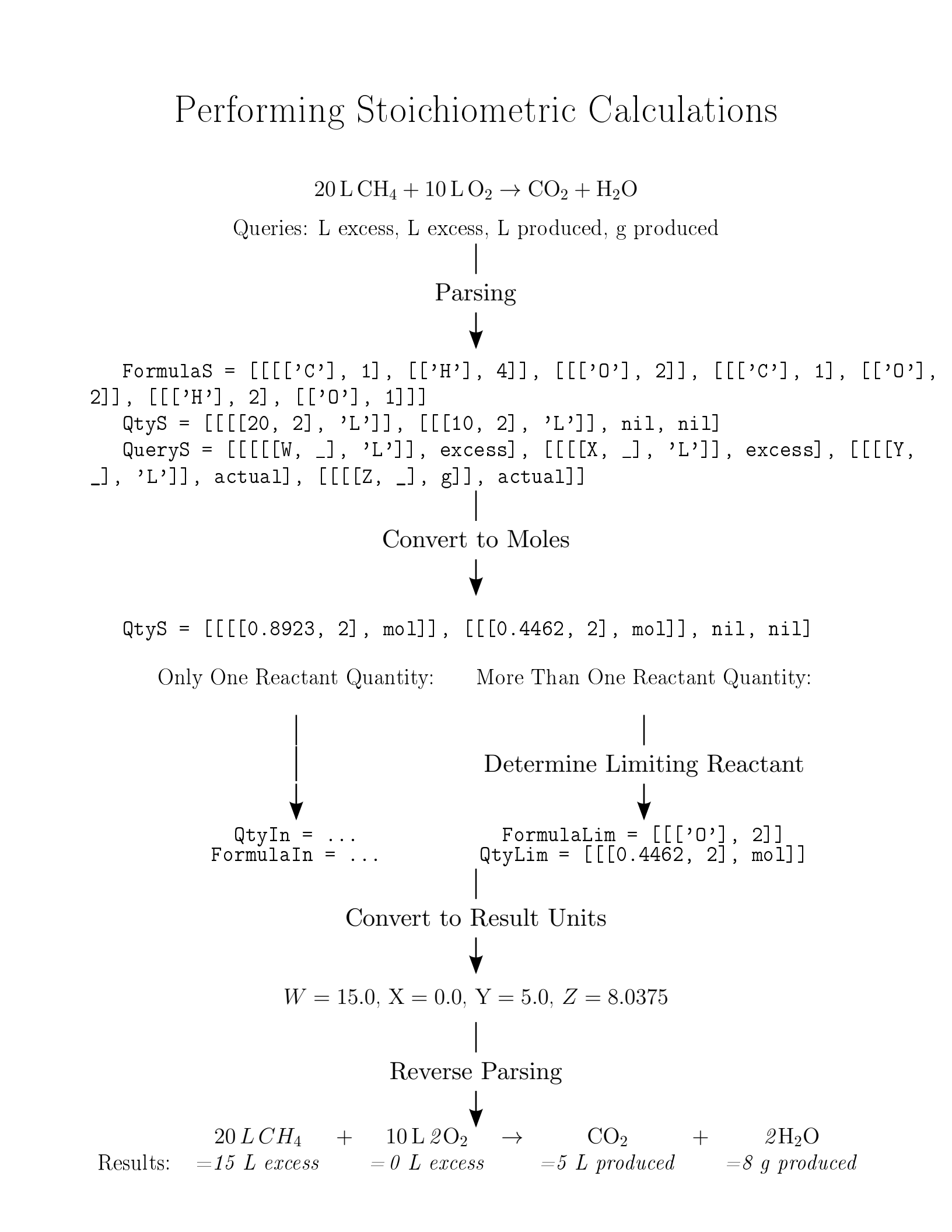
Performing Stoichiometric Calculations

$$20\,\mathrm{L}\,CH_4 + 10\,\mathrm{L}\,O_2 \rightarrow CO_2 + H_2O$$

Queries: L excess, L excess, L produced, g produced



$$20\,L\,CH_4 + 10\,\mathrm{L}\,2O_2 \rightarrow CO_2 + 2H_2O$$

Results: $=15\ L\ excess$ $=0\ L\ excess$ $=5\ L\ produced$ $=8\ g\ produced$