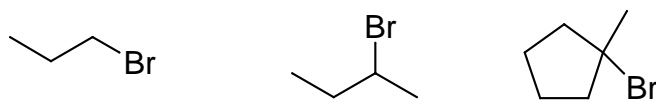
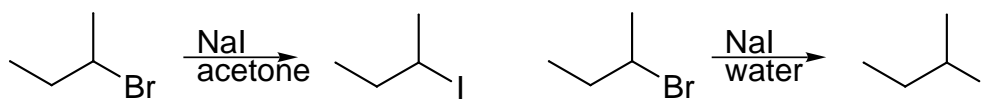


3. Give the indicated rankings for the following. Provide explanations for your rankings

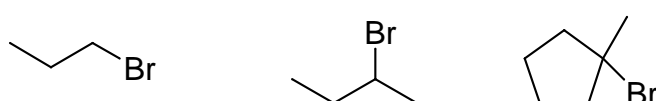
a) Fastest S<sub>N</sub>2 reaction with NaI in acetone



e) Fastest S<sub>N</sub>1 reaction



b) Fastest S<sub>N</sub>1 reaction with NaI in water



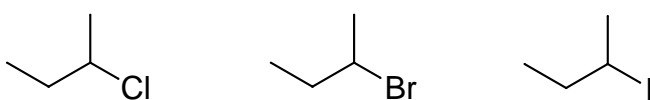
f) fastest S<sub>N</sub>1 reaction



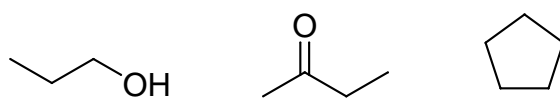
c) fastest S<sub>N</sub>2 reaction



g) fastest reaction with NaSH



d) best solvent for a S<sub>N</sub>2 reaction



h) best Nucleophile



i) best nucleophile

