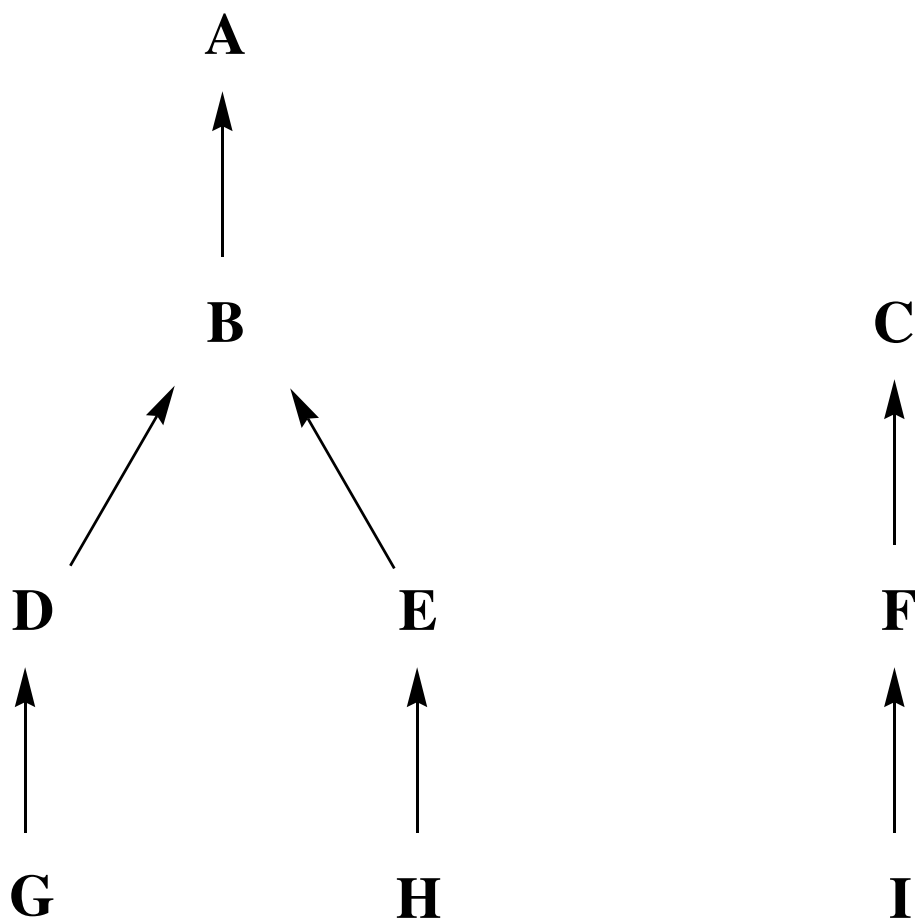
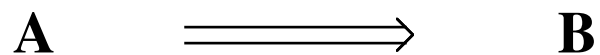


Organic Synthesis

1. retrosynthetic analysis



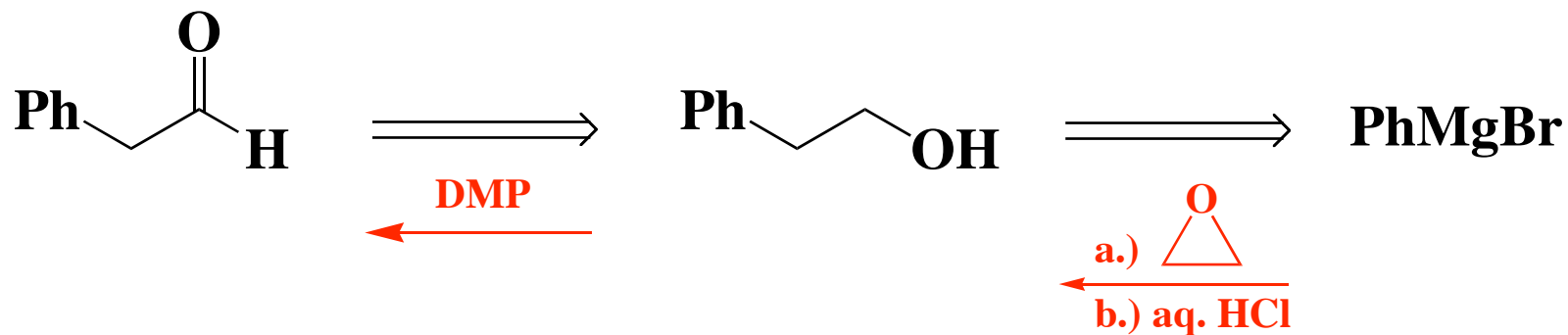
retrosynthetic direction:



synthetic direction:



an example:



2. efficiency

avoid product mixtures

obtain highest yields

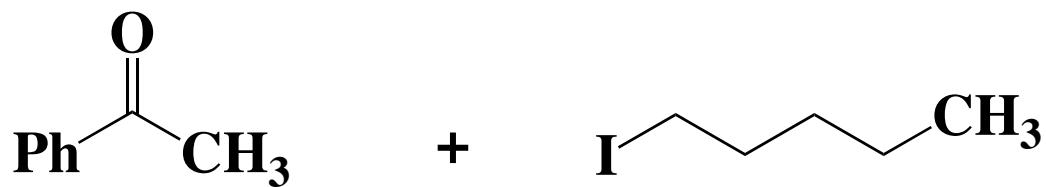
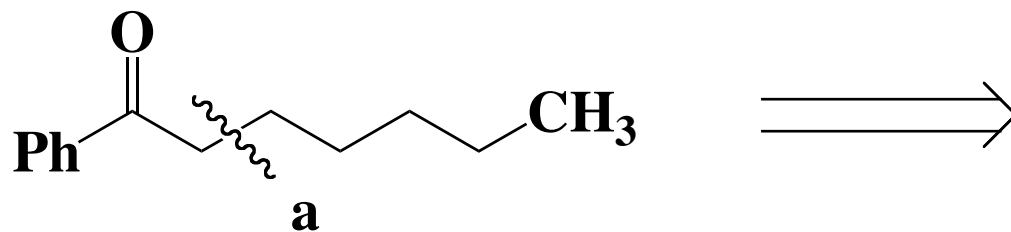
use fewest number of steps

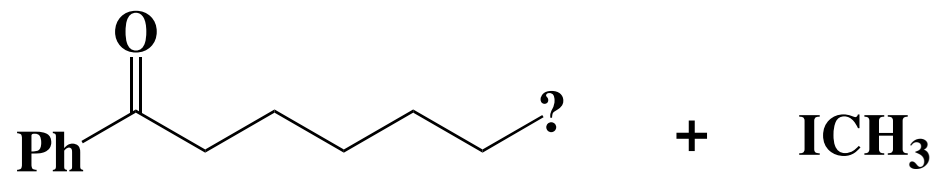
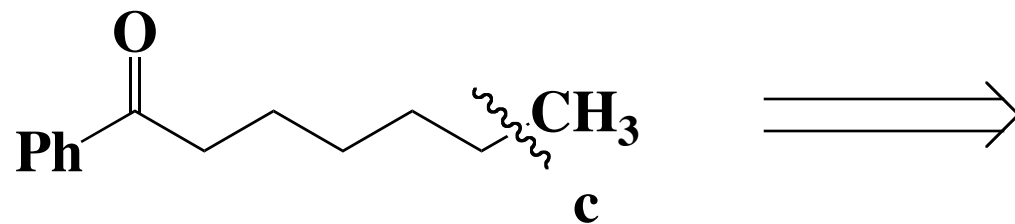
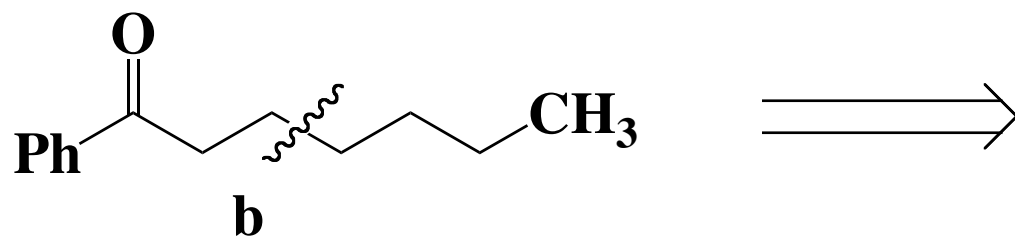
use convergent syntheses

3. carbon framework

**Construction of the C - C framework often
is one of the most difficult tasks.**

4. nearby functional groups





5. oxidation levels

6. stereochemistry

7. regiochemistry

8. functional group compatibility

