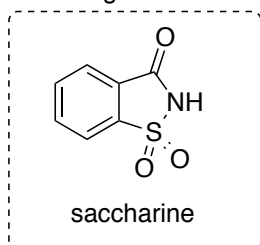
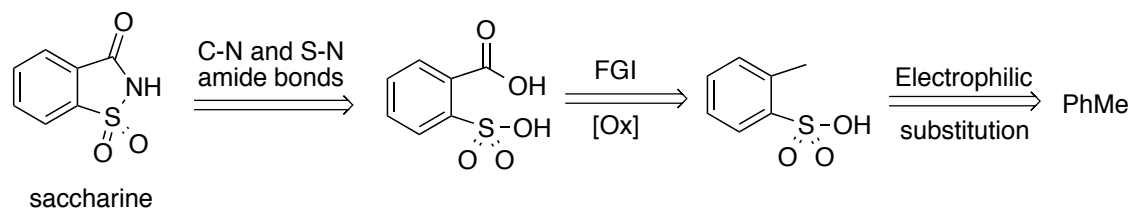


Adapted from Stuart Warren and Paul Wyatt Organic Synthesis: The Disconnection Approach, 2nd Ed., Wiley 2008

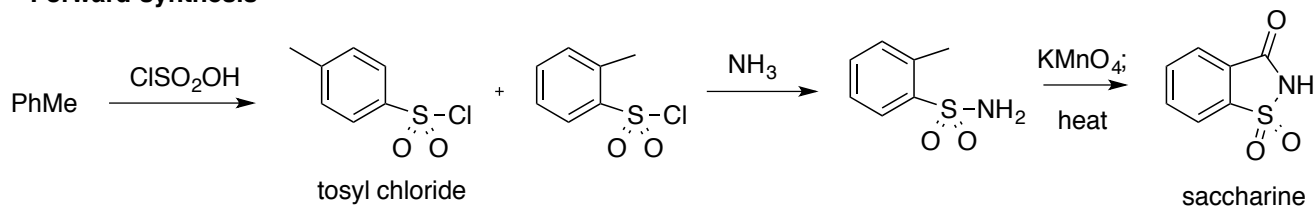
1. Provide a retrosynthetic analysis of and suggest a forward synthesis for the artificial sweetener saccharine. Propose why this artificial sweetener industry subsidized a reagent for converting alcohols into leaving groups.



Retrosynthetic analysis



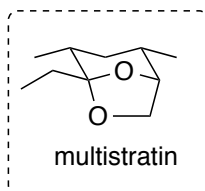
Forward synthesis



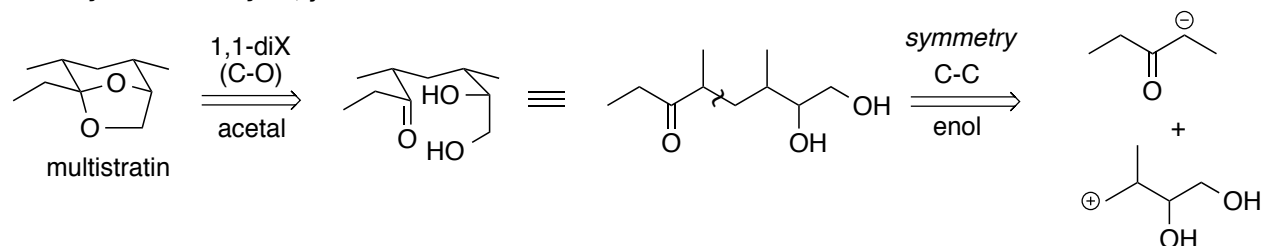
2. Provide a retrosynthetic analysis of and suggest a forward synthesis for the elm bark beetle pheromone multistriatin.

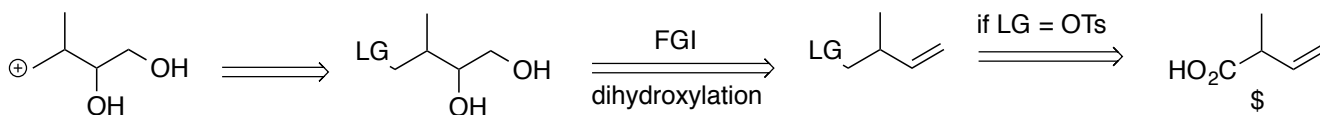
Junior Members: Do not worry about stereochemistry.

Senior Members: Do worry about (relative) stereochemistry.

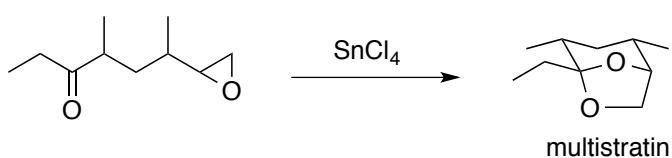
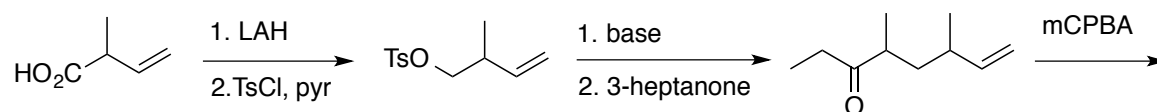


Retrosynthetic analysis, junior

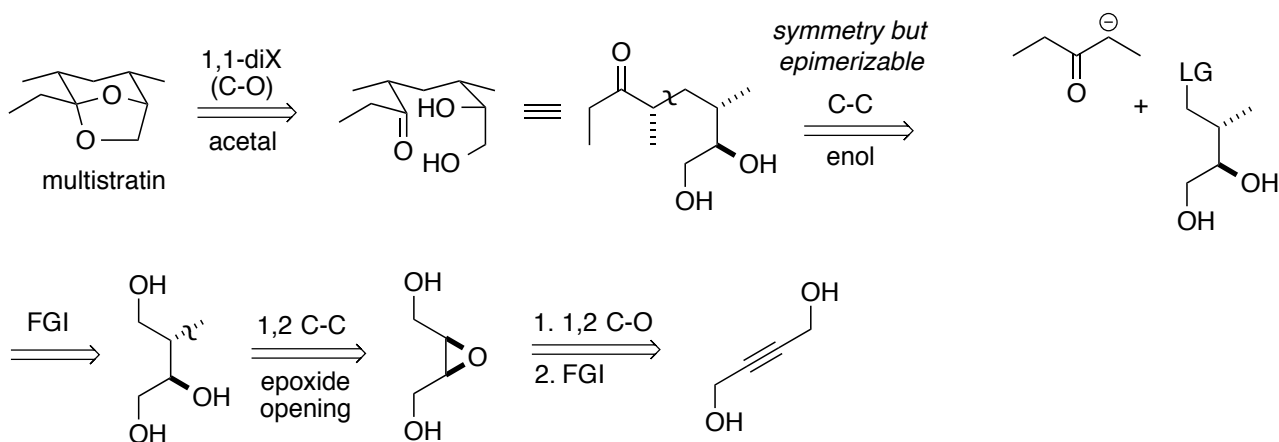




Forward synthesis, junior



Retrosynthetic analysis, senior



Forward synthesis, senior

