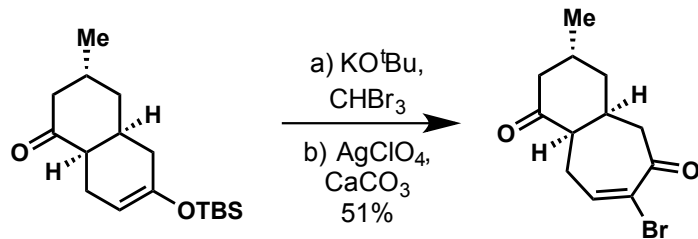
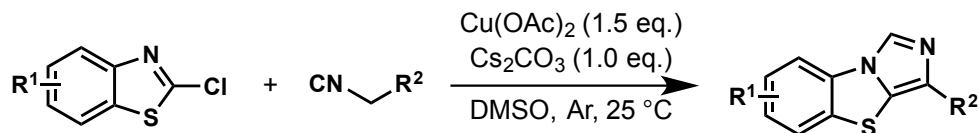
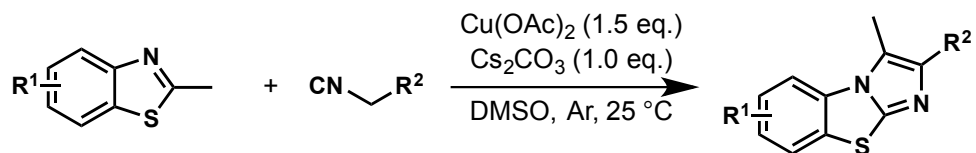


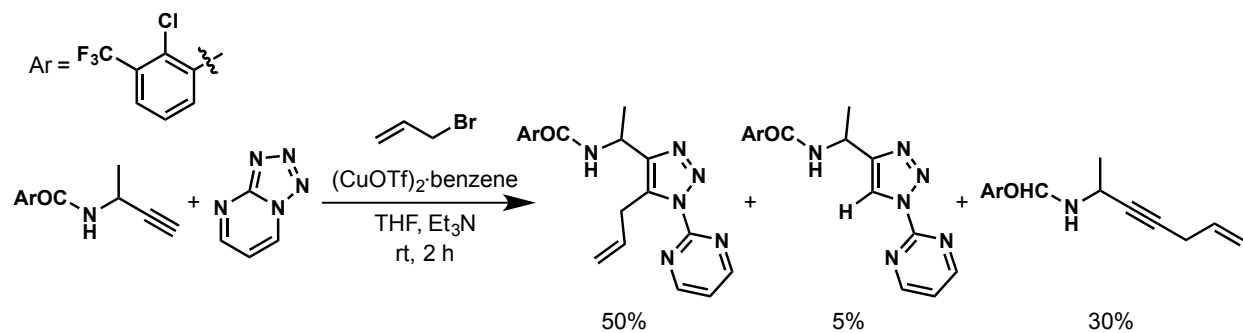
1. Provide the mechanism for the reaction below.



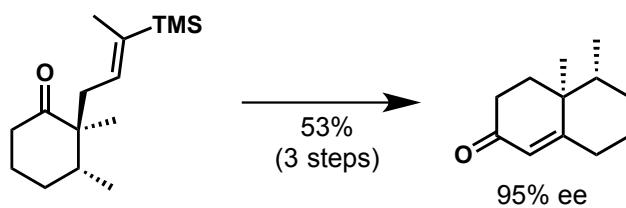
2. Provide the mechanisms for the reactions below.



3. Provide the mechanism for the reaction below, accounting for the formation of all products.



4. Provide the reagents to accomplish the transformation below.



5. Provide the mechanism and the name of the following reaction.

