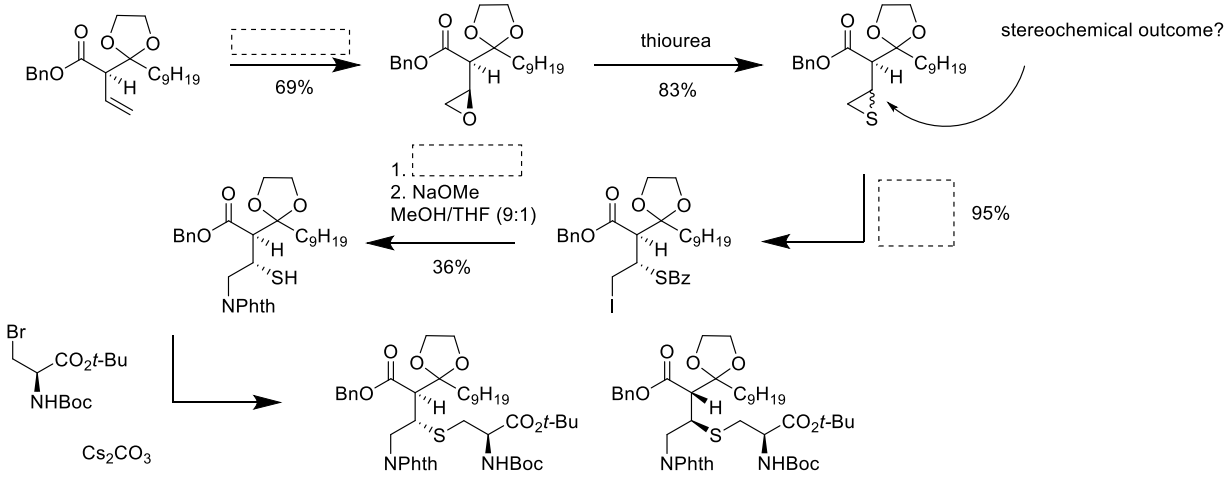
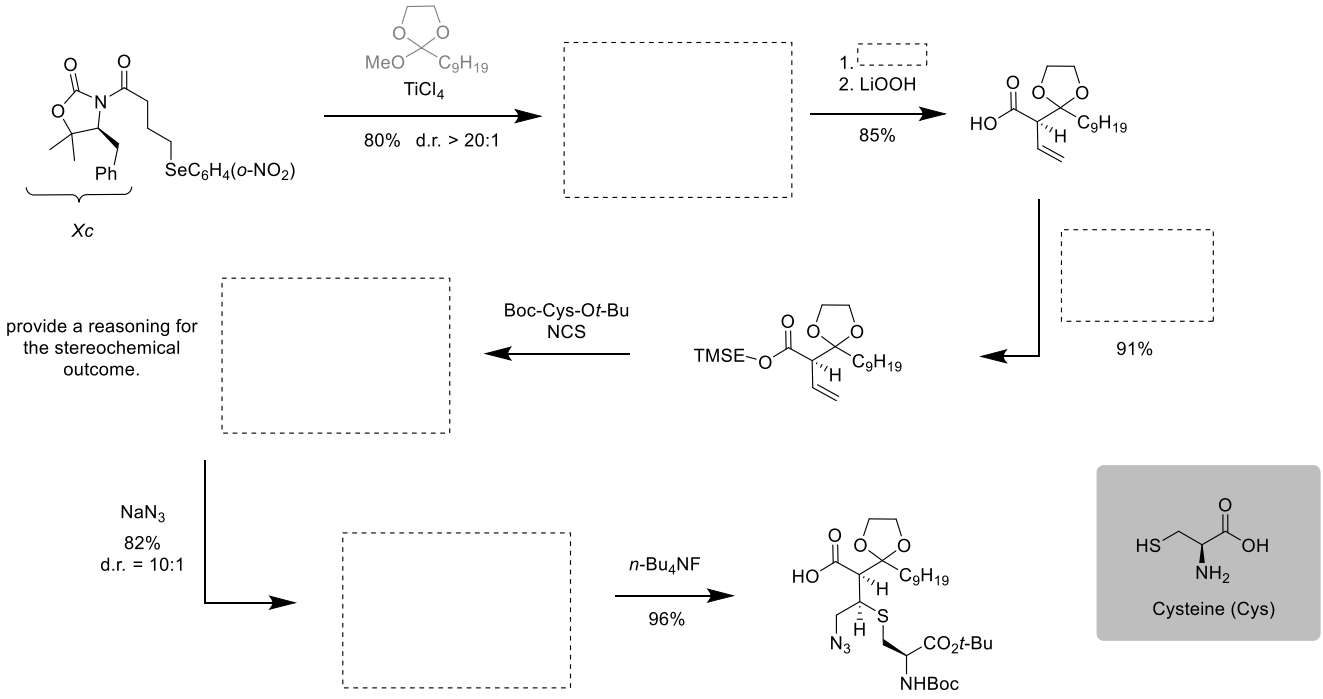
Question 1: Fill in the blanks and provide mechanisms for the following reaction scheme(s):



Question 2: Fill in the blanks and provide mechanisms for the following reaction scheme(s):



BONUS: Provide the mechanism of the side product

