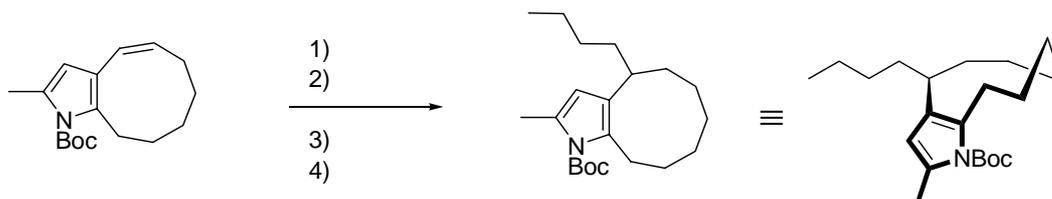
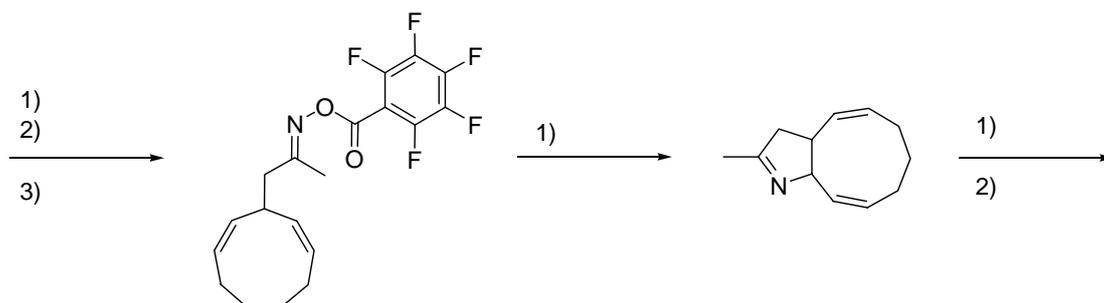
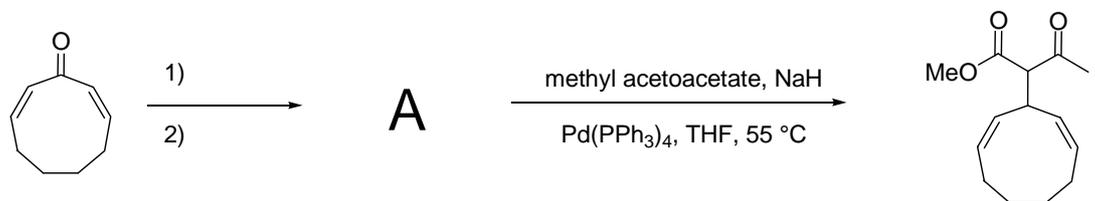


As usual, provide mechanisms, missing reagents and structures...

a)



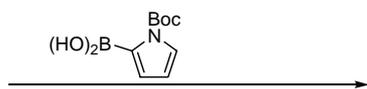
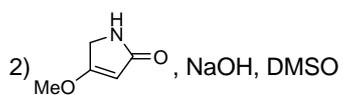
1) CAN, $\text{CHCl}_3/\text{DME}/\text{H}_2\text{O}$



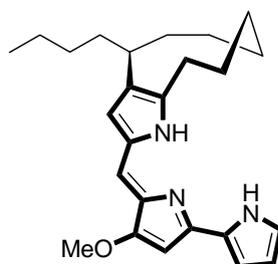
B

1)

C

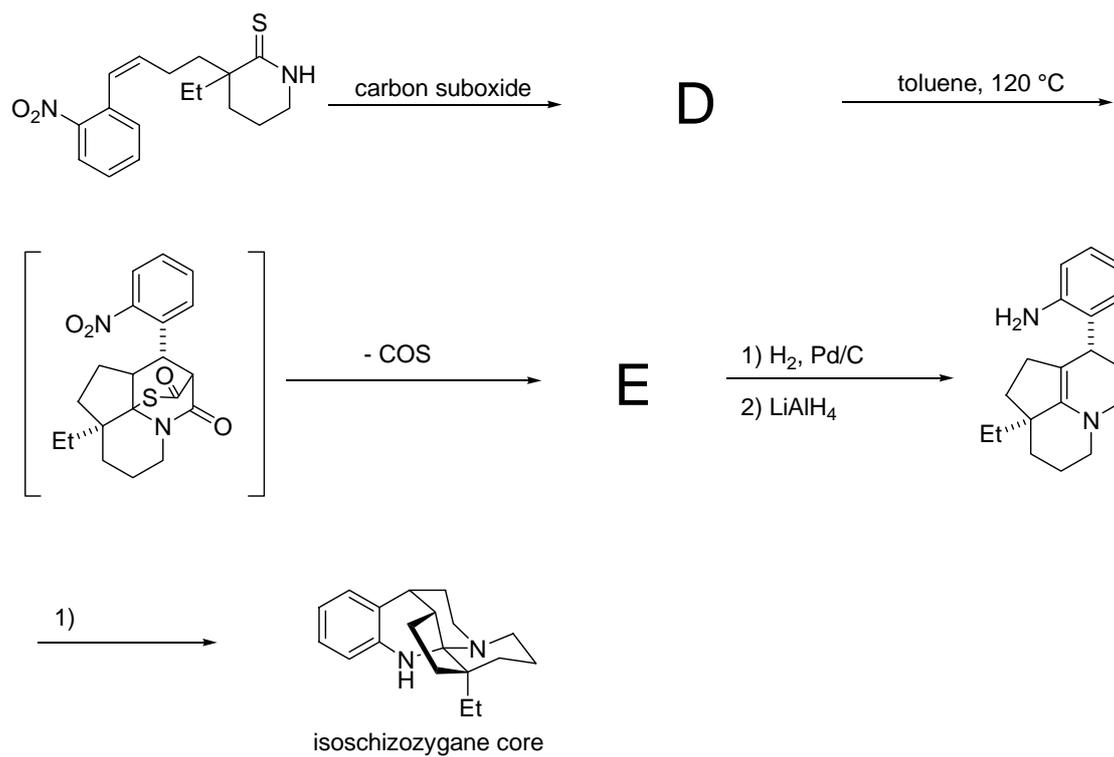


$\text{Pd}(\text{PPh}_3)_4$, LiCl, Na_2CO_3 (aq.)
 DME, 80 °C



butylcycloheptylprodigiosin

b)



c)

