Epoxide ring opening (2 cases). Please read “Three membered ring” supplementary material to understand regio- and stereochemistry.

Case 1: Epoxide ring opening under acidic condition (two reagents: epoxide + dilute acid; 1 step reaction)



Case 2. Epoxide ring opening under basic condition (three reagents: epoxide + base/Nu + then dilute acid; 2 steps reaction)



Avoid mistakes:



Why?

