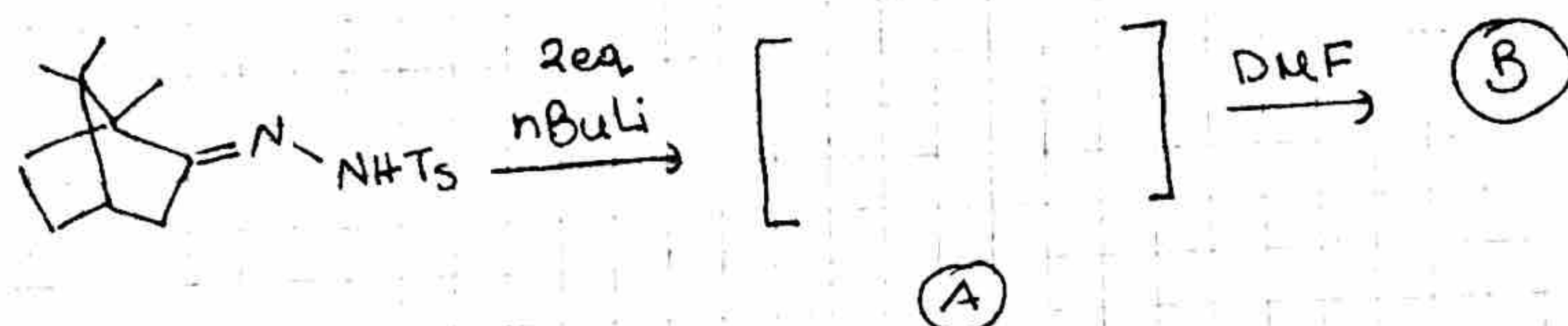
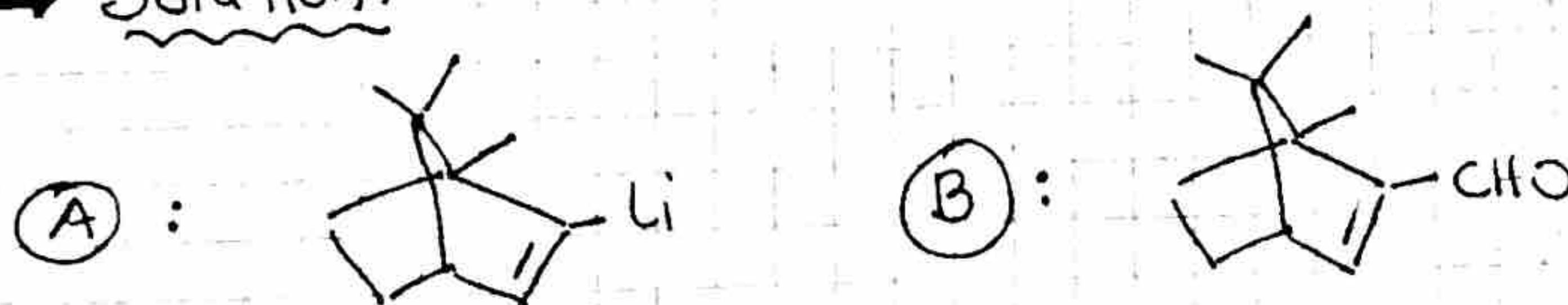


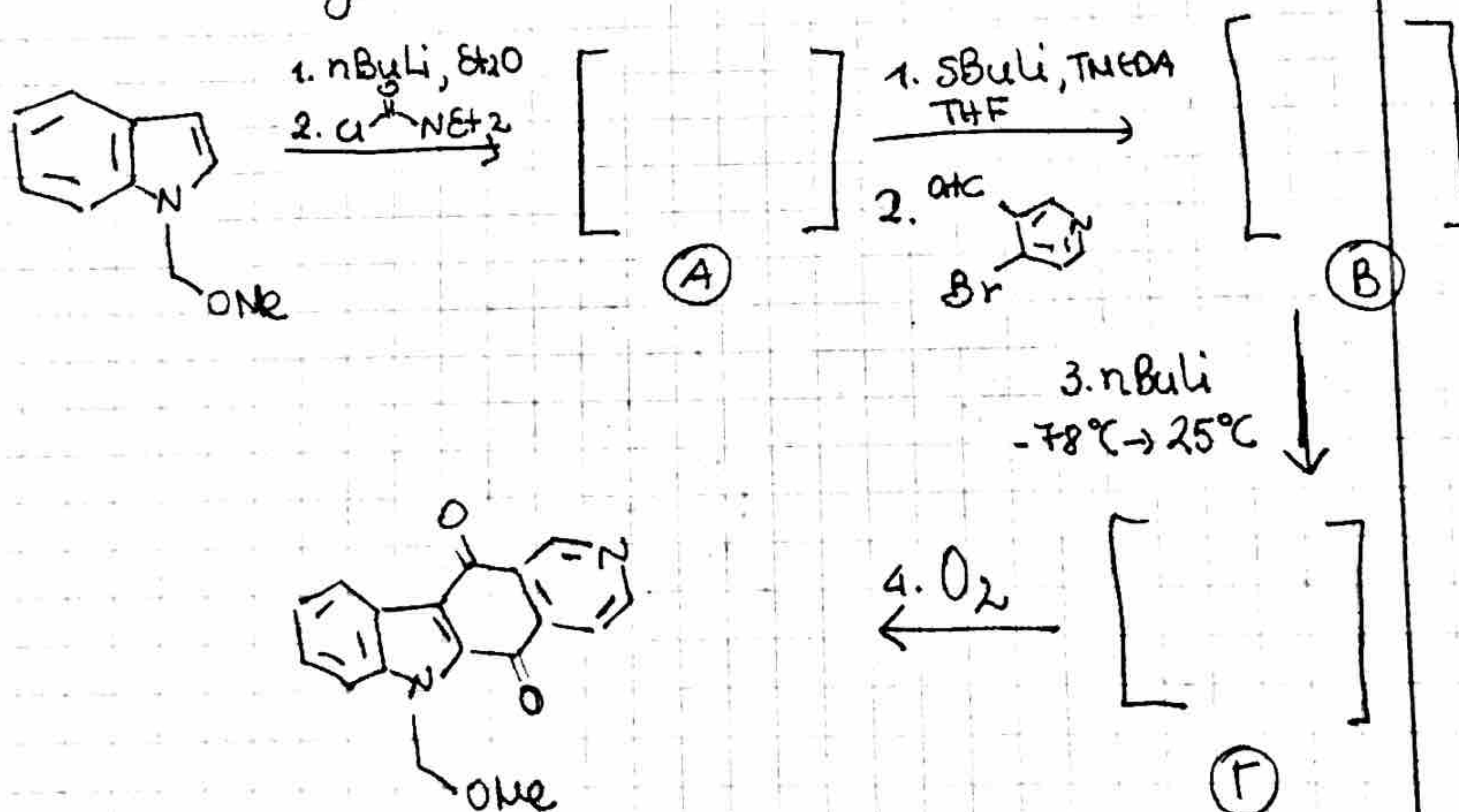
3. Complete the following reaction:



→ Solution:



4. Complete the following sequence and classify the reaction type of the lithiation steps.



→ Solution:

1. Directed orthometallation
2. Directed orthometallation
3. Halogen-Lithium exchange

