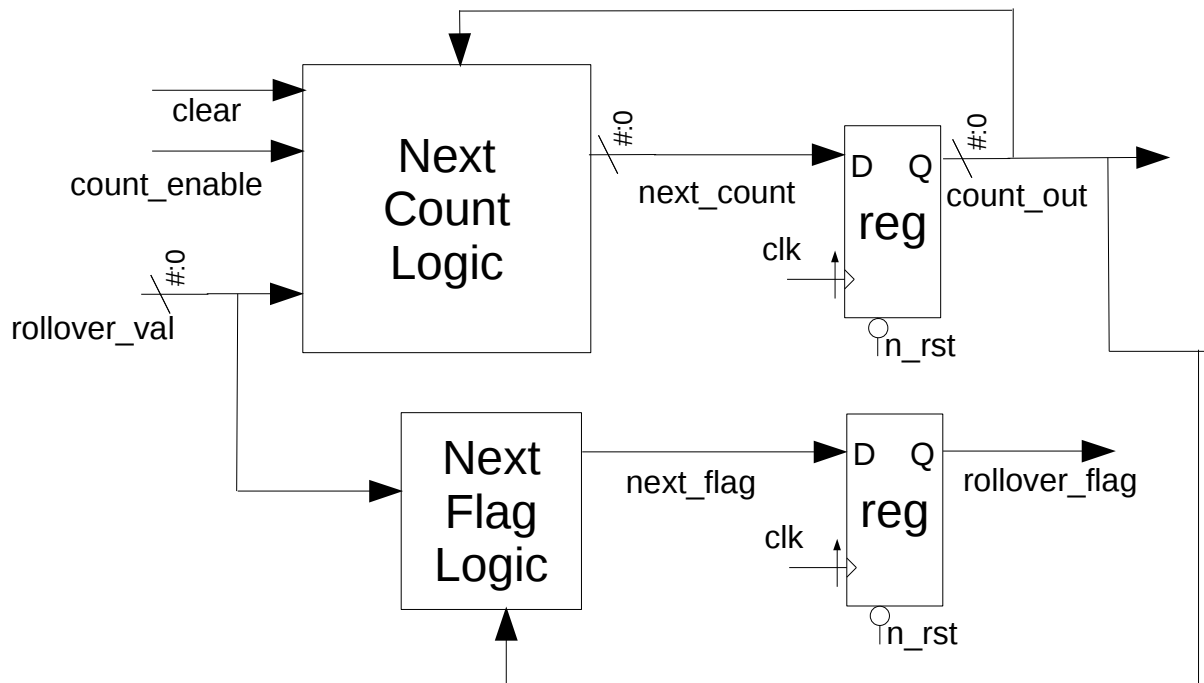


Lab3 Flexible Counter RTL Diagram

Joe Mynhier
Section 4
ECE 337



Next Count Logic:

If clear is asserted, set next_count to 0. If count_enable is asserted, check if count_out equals rollover_val. If it does, set next_count to 1, otherwise increment next_count. If neither clear nor count_enable is asserted, next_count equals count out.

Next Flag Logic:

If count_out equals rollover_val, next_flag is 1, otherwise next_flag is 0.