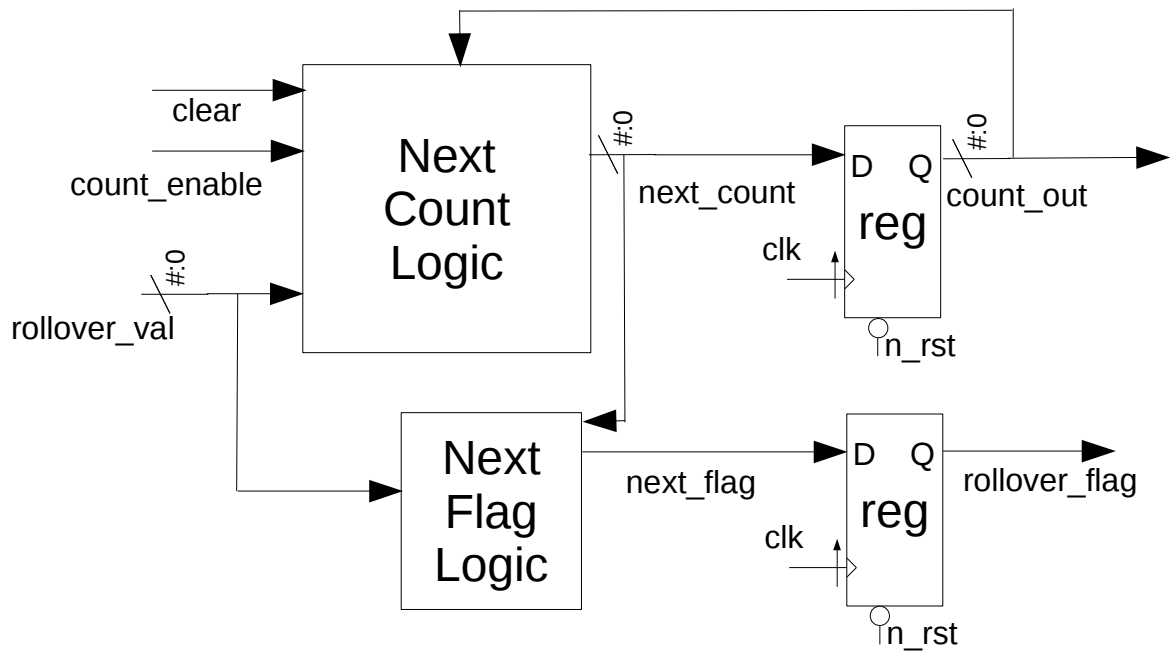# Lab3 Flexible Counter RTL Diagram

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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 next_count equals rollover_val, next_flag is 1, otherwise next_flag is 0.