```
if (count_out != rollover value)
  rollover_flag = 0;
                                                                                                                              else
                                                                                                                                 rollover_flag = 1;
                                                           [#-1:0]
                                         count
                                                                                   n_rst
                                                                  [#-1:0]
    clear
                                                                                                                                        rollover
                                                                                                                    count_out
                                                            nxt_count
                                             Count
                                                                                                                                                      rollover_flag
count_enable
                                                                                                                                         logic
                                              logic
rollover_val
                                                                                                                     rollover_val
                                                                          clk
                                                                                                           [#-1:0]
                         if (clear)
  nxt_count = 0;
                         else if (!count_enalbe)
                           nxt_count = count;
                         else if (count == rollover_val)
                           nxt_count = 1;
                         else
                            nxt_count = count + 1;
```