$\sim B = 9'b\ 100\_110\_000$: bit-wise NOT

$B >> 2 = 9'b\ 000\_110\_011$: shift right

$A\ != B$; $(12'b\ 1001\_1100\_1000)\ != (12'b\ 0000\_1100\_1111)$

$\Rightarrow 1$: logical inequality