----------Example----------

nand : - (p^q)

double nand : -( - (p^q) ^ - (p^q) ) = ( p ^ q )

SOP (and) : (-a ^ -b) v (-a ^ b)

SOP (nand) : -( -( -a ^ b ) ^ -( -a ^ b ) )

----------Logic----------

1Y : - ( a ^ b ) [ Cout condition ]

2Y : - ( -( a ^ b ) ^ a ) = - ( -b ^ a ) [ sum condition ]

3Y : - ( - ( -b ^ a ) ^ - ( -a ^ b ) ) [ SOP - sum condition ]

4Y : - ( -(a ^b ) ^ b ) = - ( -a ^ b ) [ sum condition ]