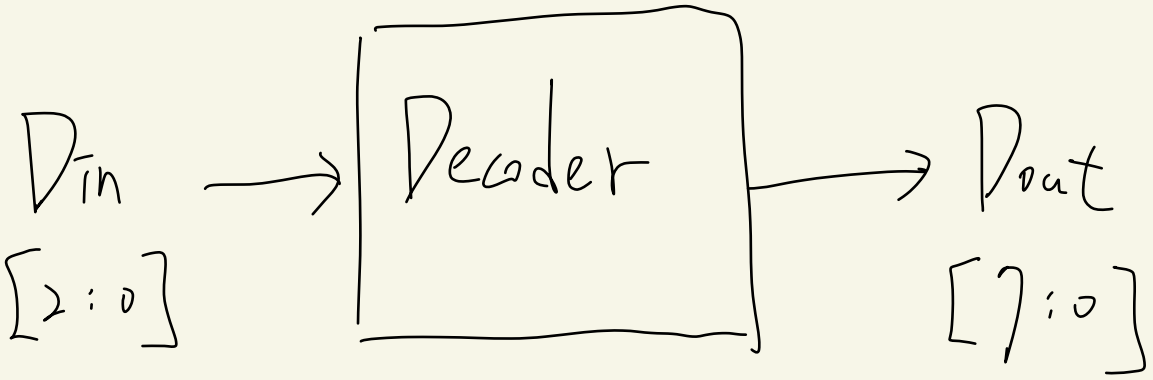


$Dout[0] = Din[2]' Din[1]' Din[0]' \quad (000)$

$Dout[1] = Din[2]' Din[1]' Din[0] \quad (001)$

$Dout[2] = Din[2]' Din[1] Din[0]' \quad (010)$

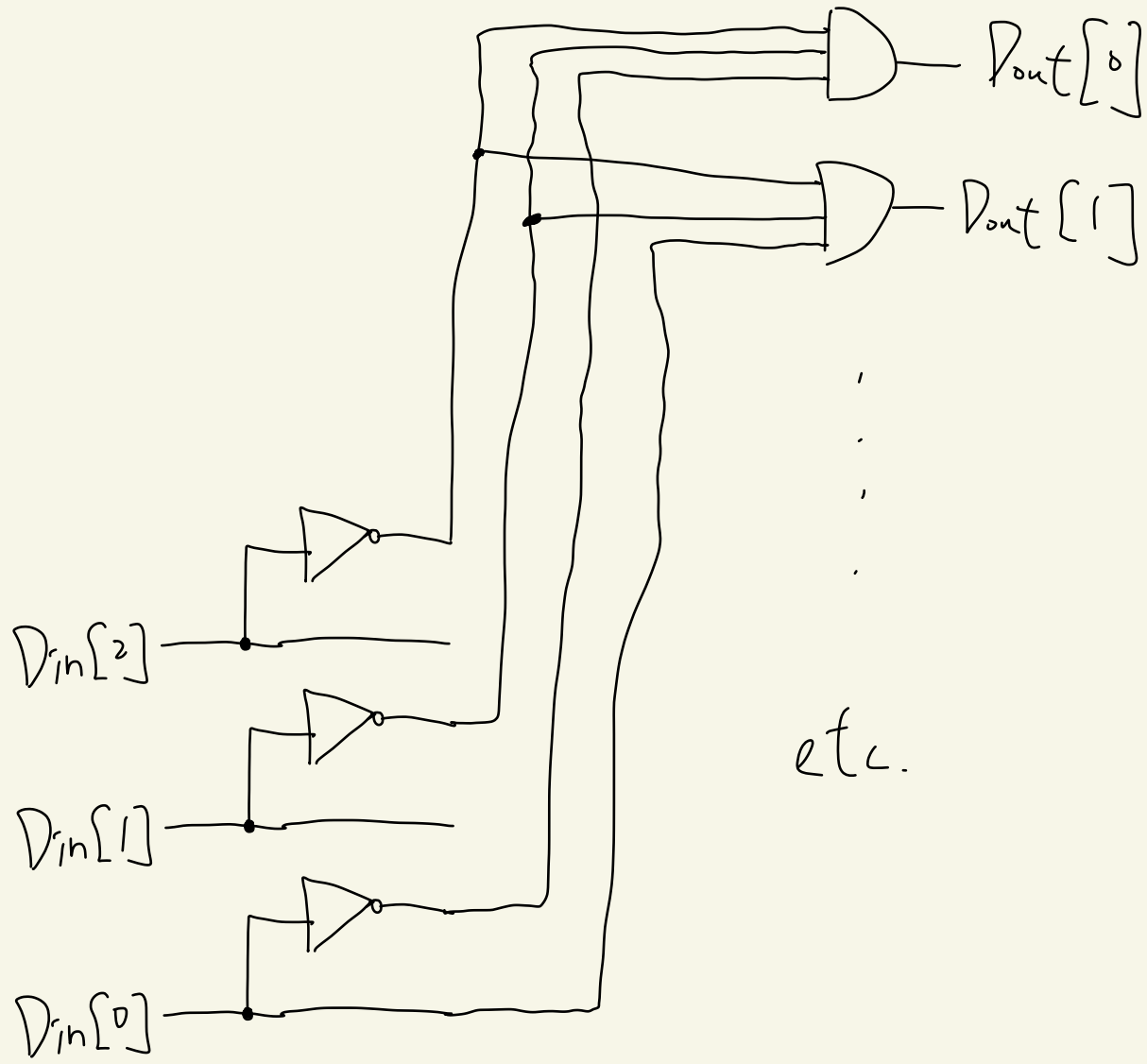
$Dout[3] = Din[2]' Din[1] Din[0] \quad (011)$

$Dout[4] = Din[2] Din[1]' Din[0]' \quad (100)$

$Dout[5] = Din[2] Din[1]' Din[0] \quad (101)$

$Dout[6] = Din[2] Din[1] Din[0]' \quad (110)$

$Dout[7] = Din[2] Din[1] Din[0] \quad (111)$



the design above is dataflow/gate level

also can use behavior level, ex: case