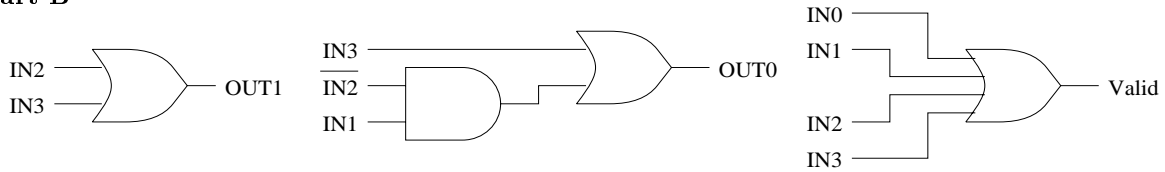


# Encoders

## Part A

$IN_3$	$IN_2$	$IN_1$	$IN_0$	$OUT_1$	$OUT_0$	$Valid$
1	0	0	0	1	1	1
X	1	0	0	1	0	1
X	X	1	0	0	1	1
X	X	X	1	0	0	1
0	0	0	0	X	X	0

## Part B



## Part C

$IN_2$  highest,  $IN_0$  2nd highest,  $IN_3$  3rd highest,  $IN_1$  lowest

## Part D

