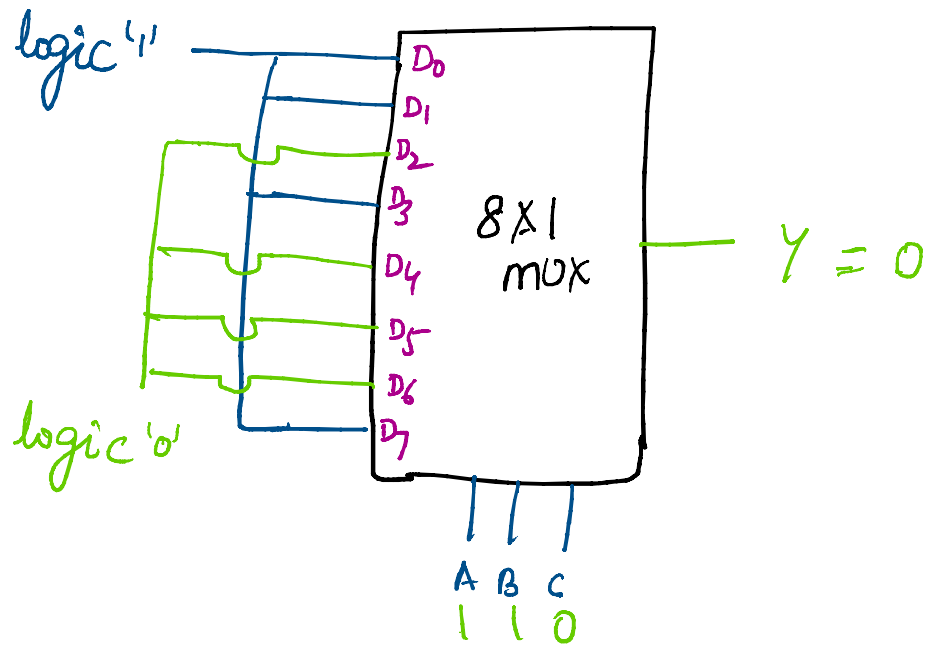


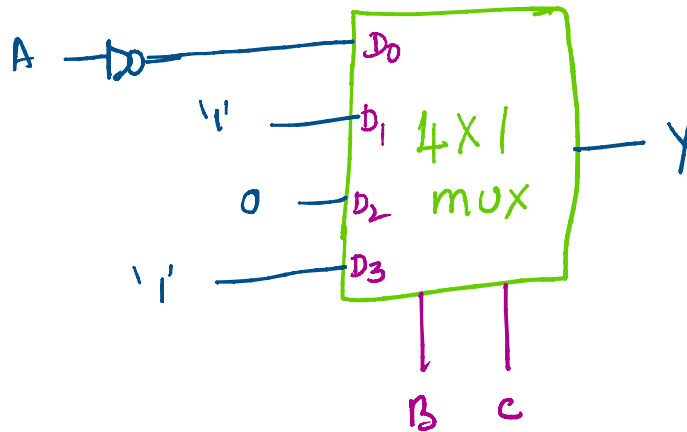
## Multiplexer using Boolean function

$$f(A, B, C) = \sum m(0, 1, 3, 5, 7) \text{ using } 8:1 \text{ multiplexer}$$



$f(A, B, C) = \sum m(0, 1, 3, 5, 7)$  using  $\frac{4:1 \text{ MUX}}{2 \times 1} \rightarrow$  selection lines

Let us take B & C are selection lines



	$D_0$	$D_1$	$D_2$	$D_3$
$\bar{A}$	0	1	2	3
$A$	4	5	6	7
	$\bar{A}$	1	0	1

↓

$\bar{A} + A = 1$