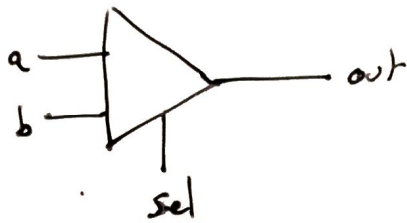


Chip: Mux
 Inputs: sel, a, b
 Outputs: out
 Function: if sel = 0 then out = a else out = b



a	b	sel	out	
0	0	0	0	$a \cdot \overline{sel}$
0	1	0	0	
1	0	0	1	$a \cdot \overline{sel}$
1	1	0	1	" "
0	0	1	0	$b \cdot sel$
0	1	1	1	
1	0	1	0	
1	1	1	1	

a	b	sel	out	
0	0	0	0	✓
0	1	0	0	✓
1	0	0	1	✓
1	1	0	1	✓
0	0	1	0	✓
0	1	1	1	✓
1	0	1	0	✓
1	1	1	1	✓

$Mux(a, b, sel) = a \cdot \overline{sel} + b \cdot sel$
 Canonical Representation

