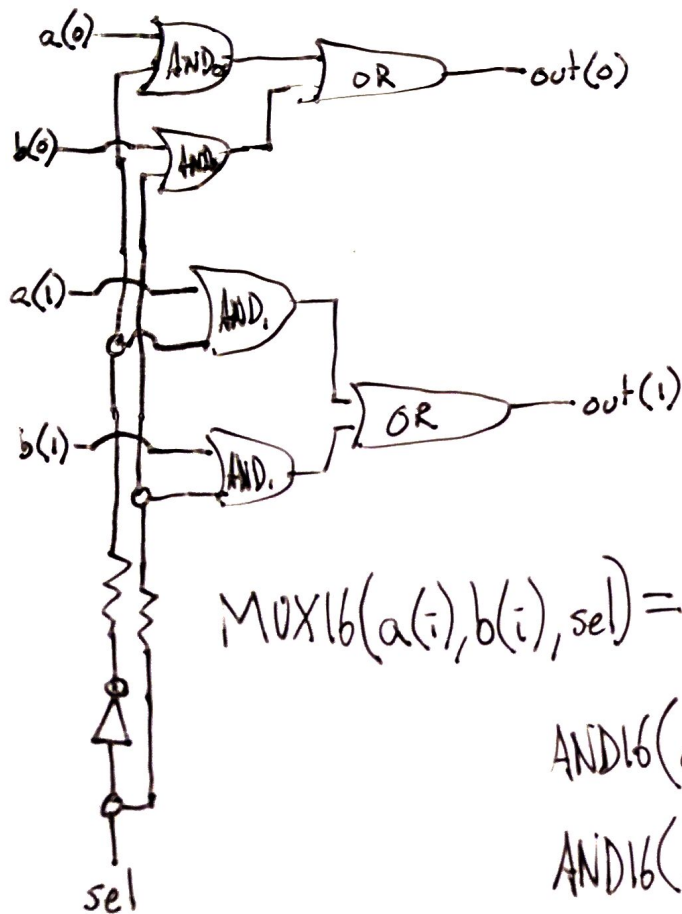


CHIP Name: MUX16

Inputs: $a[16]$, $b[16]$, sel

Outputs: $out[16]$

Function: if $sel = 0$ then for $i = 0..15$ $out(i) = a(i)$
else for $i = 0..15$ $out(i) = b(i)$



$$MUX16(a(i), b(i), sel) = OR16[$$

$$AND16(a(i), NOT(sel)_i),$$

$$AND16(b(i), sel_i)]$$