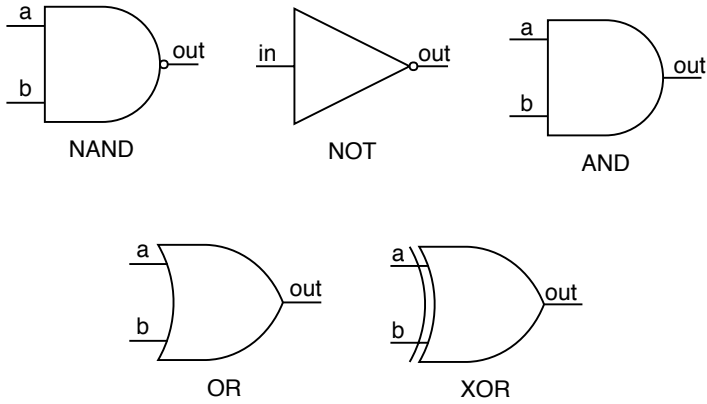


## LEGEND:



## Homework #1

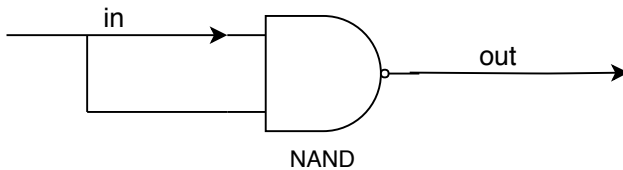
CS220 - Computer Architecture + Machine Language

Author: Vinh Pham

Section: 2653 M/W 3:30pm - 5:20pm

Last Modified: 1/22/2019

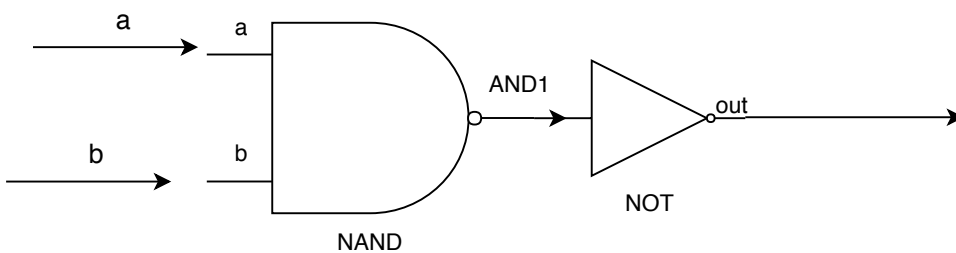
### Not



in	out
0	1
1	0

### And

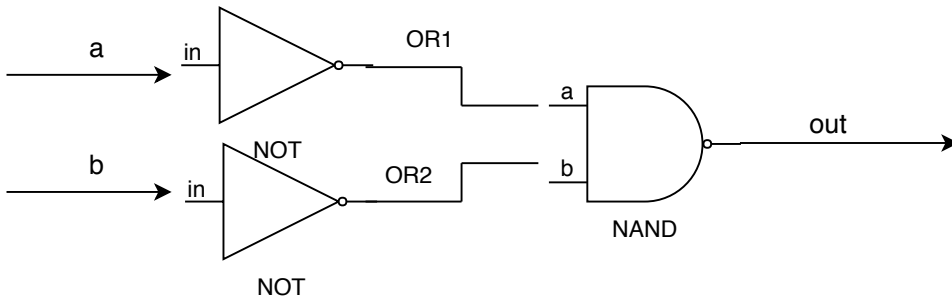
Function:  $a * b$



a	b	out
0	0	0
0	1	0
1	0	0
1	1	1

## Or

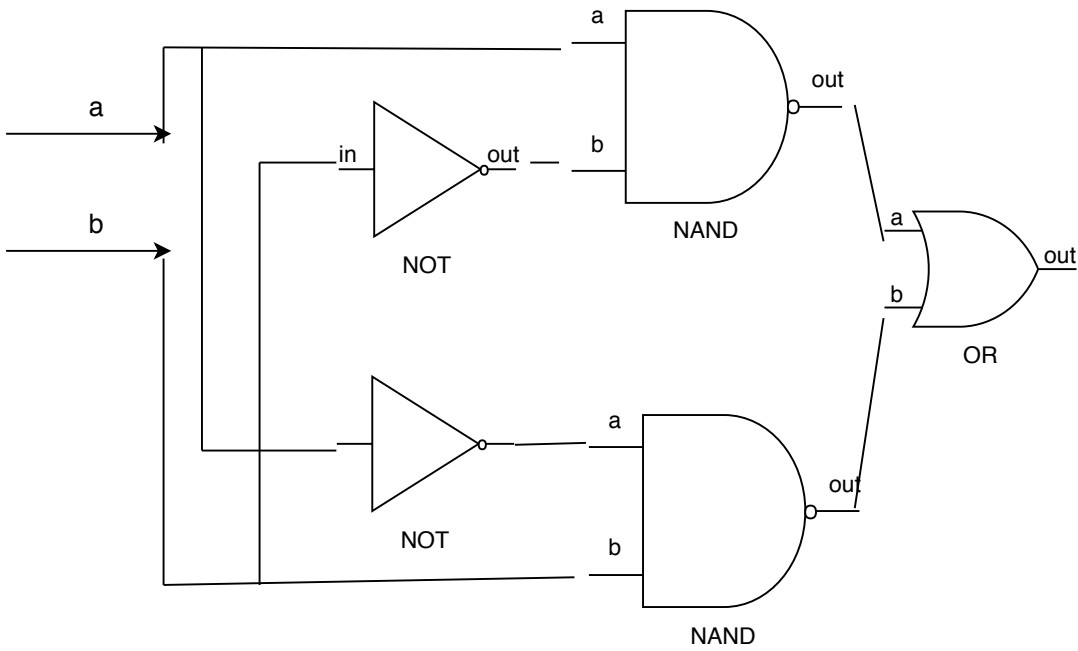
Function:  $a + b$



a	b	out
0	0	0
0	1	1
1	0	1
1	1	1

## Xor

Function::  $a * \bar{b} + \bar{a} * b$



a	b	out
0	0	0
0	1	1
1	0	1
1	1	0