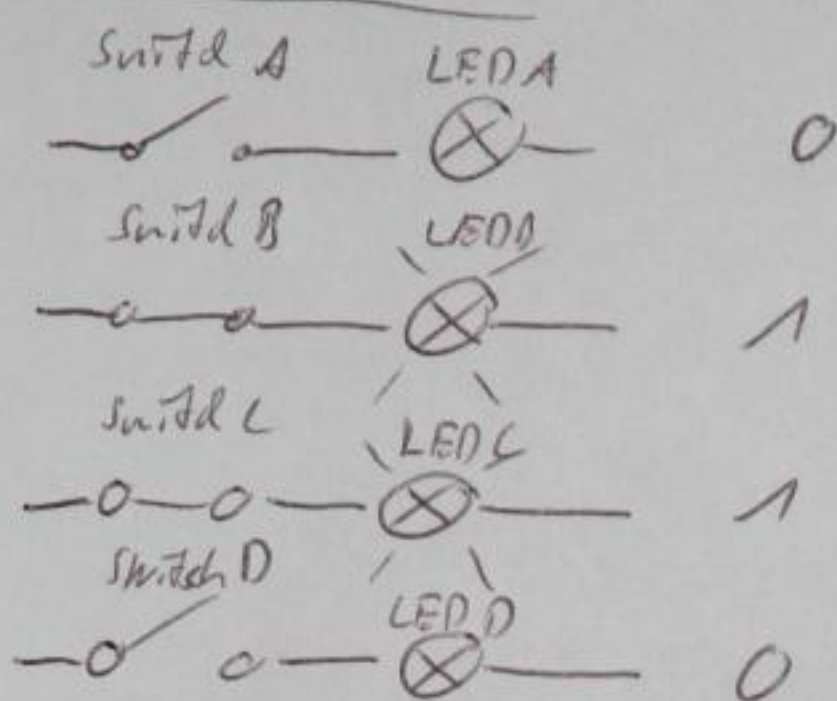


# Lect 2 - Page 5 (further explanation)

## Initial situation



Goal

1 switch on LEDA without changing the rest by using a bit mask

$\Rightarrow$  (similar to setting a behaviour of a hardware device)

The bit mask for A is

	D	C	B	A
for A	0	0	0	1
for B	0	0	1	0
for C	0	1	0	0
for D	1	0	0	0

## What to do?

Initial sit: 0 1 1 0

Bit mask: 0 0 0 1

Goal: 0 1 1 1

$\Rightarrow$  operation to use is OR

$\overline{00}$	0
0 1	1
1 0	1
1 1	1

Truth table OR

But what to do to switch off bit C without changing the rest

Initial situation: 0 1 1 1

Bit mask: 0 1 0 0

Goal

0 0 1 1

?