

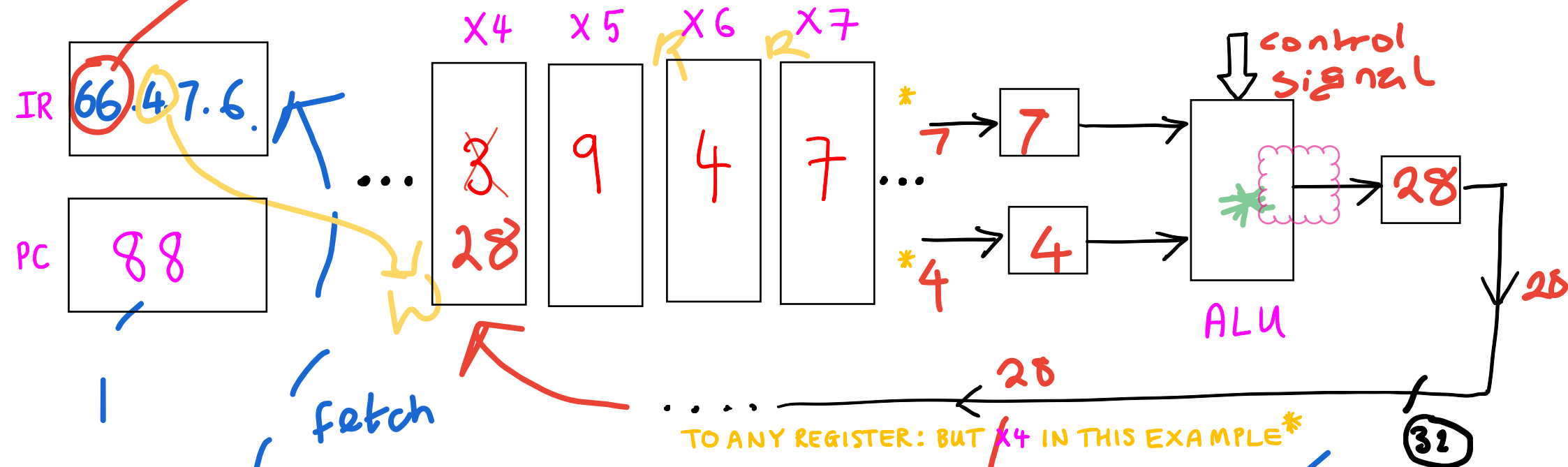
SU10 QA.

[93] - [104]

①

[93-98] The FDE Cycle.

control unit



I illustrate:

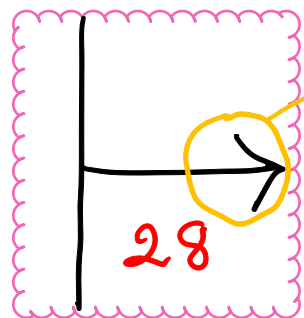
Fetch ✓

Decode ✓

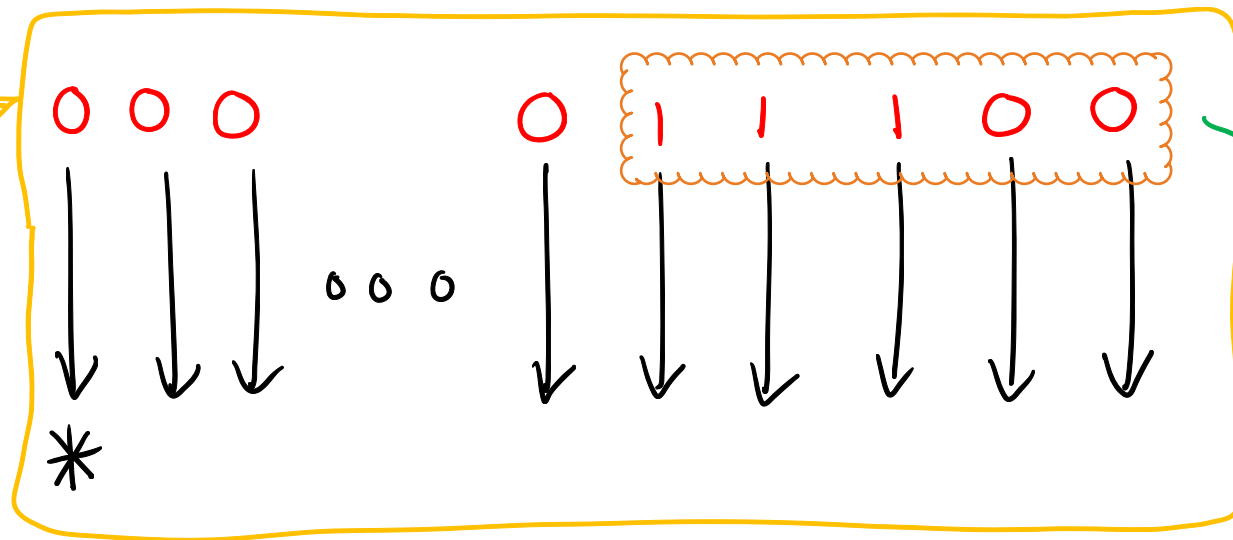
Execute

Main Memory

Machine code for `mult X4 X7 X6` Semantics $X4 := !X7 * !X6$



rotate
90°
clockwise
&
magnify



28_s =

00000000.0000000000.0000000000.000011100

For -28 what digit must we find here*? 1

[102] For an ALU consider

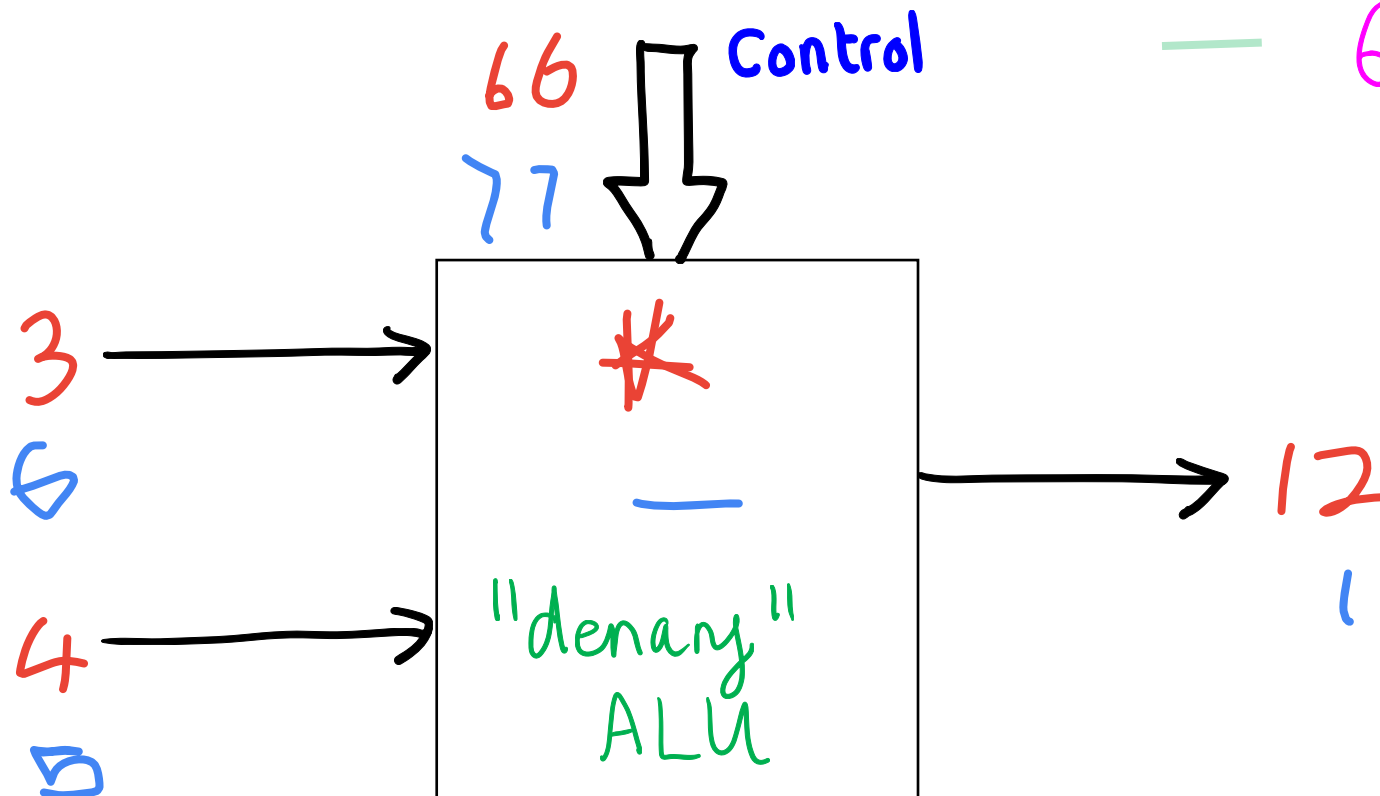
③

Control	Operation
8	*
9	—

Label the ALU below illustrating the calculations (dataflow)

— $3 * 4 = 12$

— $6 - 5 = 1$



& [104] What does the internal hardware of
[105] the $*$, $-$ ALU look like?

control

Example of
 3×4

