- 3.2) > PC: Program Counter-keeps track of where the program is in execution.
 - Address Register stores the mem address of the location where the CPU needs to go to finish the instruction

>MBR: Machine Buffer Register - Holds the value that was retrived from memory to be written to next clock cycle, or holds data that needs to be written to memory next dock cycle.

=> 1R: Instruction Register-holds the current instruction currently being decoded rexecuted

3.3) a,
$$C=0$$
 b. $C=1$ c. $C=1$
 $Z=0$
 $Z=0$

- 3.7) a programmer can easily modify or look at R15 since it behaves like a regular register, and this can mess up the entire process of the computer.
 - 3.8) "General registers all behave the same: the operations are all the same on them. On the other hand, specific registers can have punctionality tailored to their specific purpose.