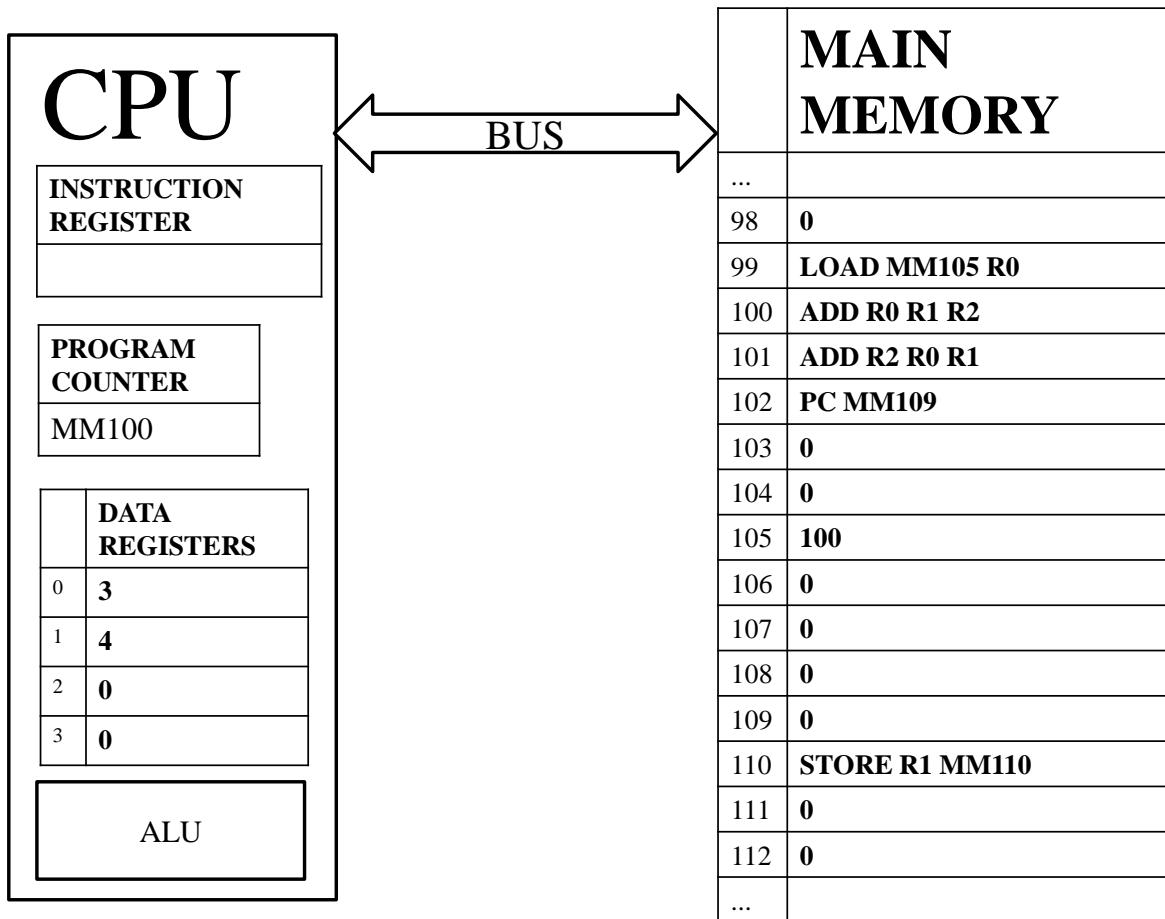


Assume you start with the situation as shown here, and one instruction cycle has just ended. Explain in words what happens at each step of the next instruction cycle, starting with Fetch, for this **specific** situation. Diagrams are not required.

I am only asking about one instruction cycle. You do not need to add any more instructions. You do not need to add any more data. (Data may be modified by the program itself)



Instruction Definitions:

LOAD MM105 R0

copy the data from MM105 to register 0

ADD R0 R1 R2

add the data in register 0 to the data in register 1 and put the result in register 2

ADD R2 R0 R1

add the data in register 2 to the data in register 0 and put the result in register 1

PC MM109

set the address in the program counter to main memory address 109

STORE R1 MM110

copy the data from register 1 to main memory address 110.