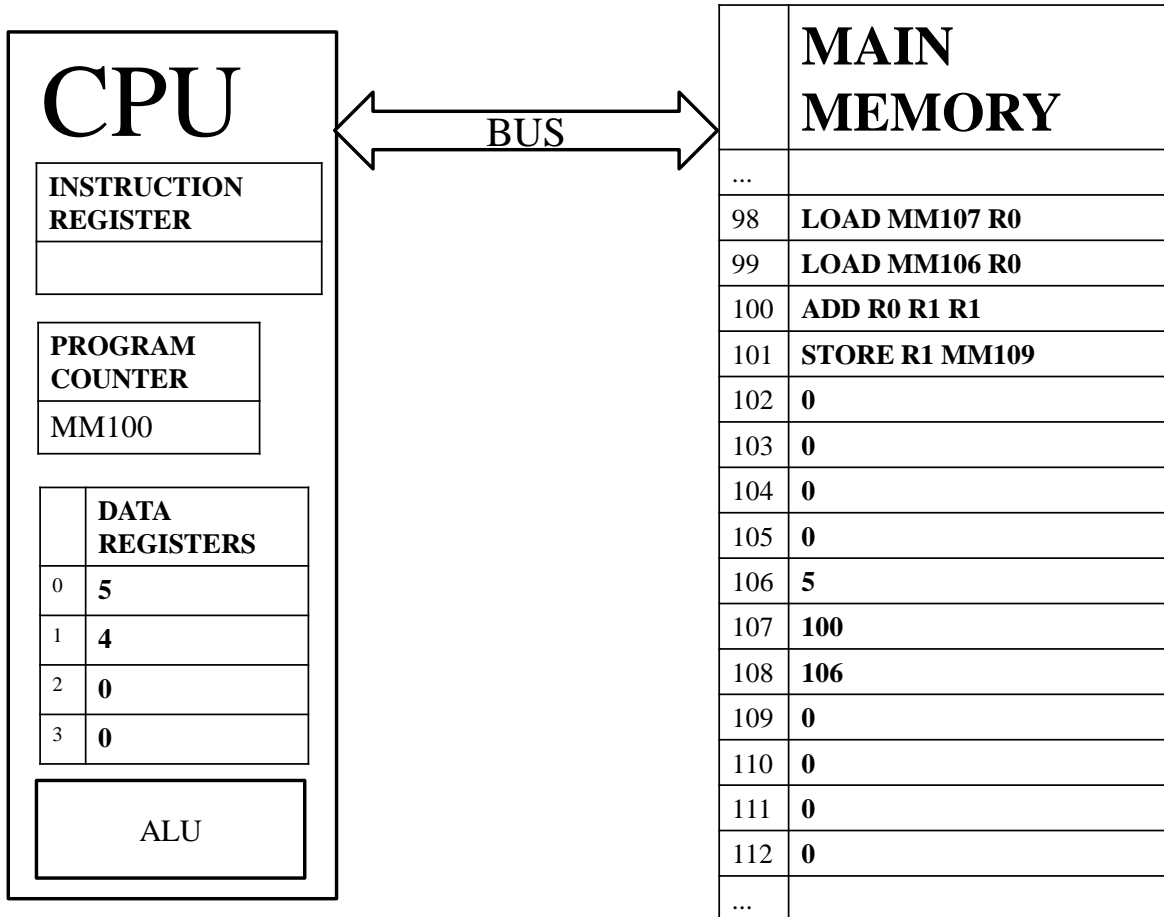


Assume you start with the situation as shown here, and one instruction cycle has just ended. Explain in words what happens at each step of the next instruction cycle, starting with Fetch, for this **specific** situation. Diagrams are not required.

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 MM107 R0

Copy the data from Main Memory location 107 to Register #0

LOAD MM 106 R0

Copy the data from Main Memory location 106 to Register #0

ADD R0 R1 R1

have the ALU add the data in Register #0 to the data in Register #1 and put the result in Register #1

STORE R1 MM109

Copy the data from Register #1 to Main Memory location 109