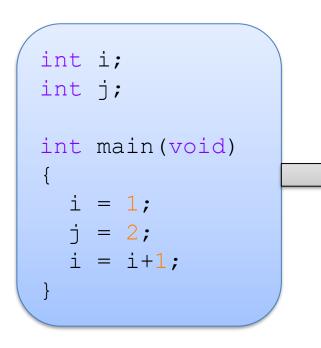
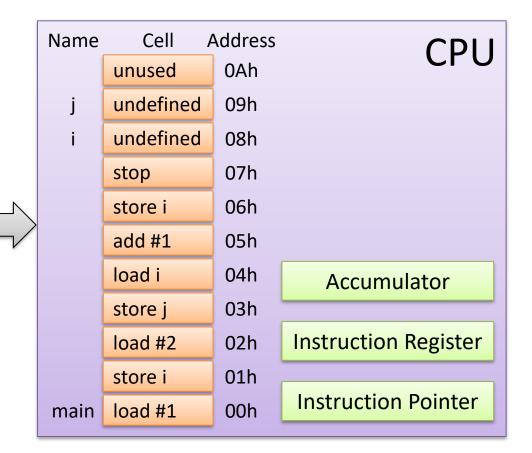
Program Execution

Networks and Embedded Systems First Grade Level Wolfgang Neff

Program Execution (1)

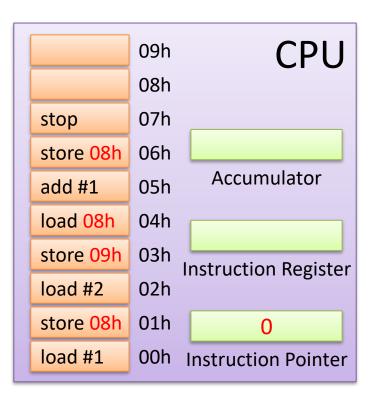
Compilation





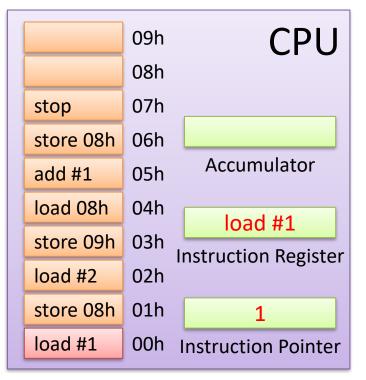
Program Execution (2)

• Initial State



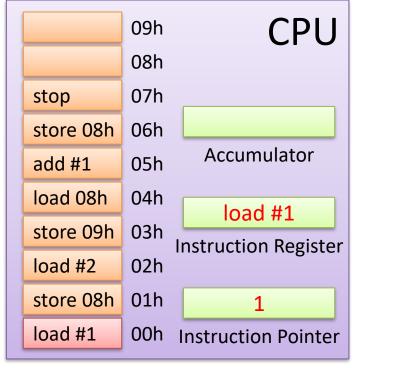
Program Execution (3)

• First Instruction – Instruction Fetch

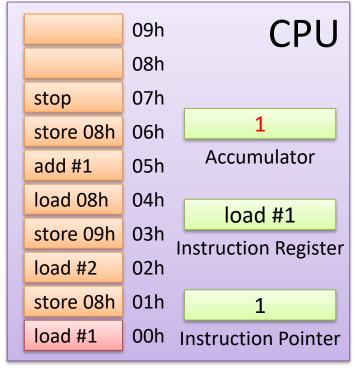


Program Execution (3)

• First Instruction – Execution

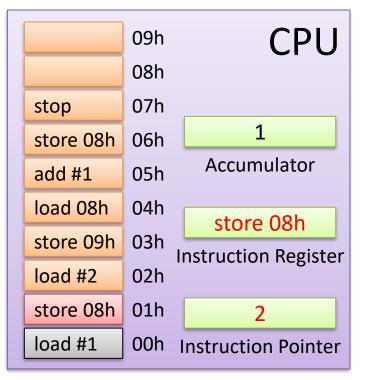


After Instruction Fetch



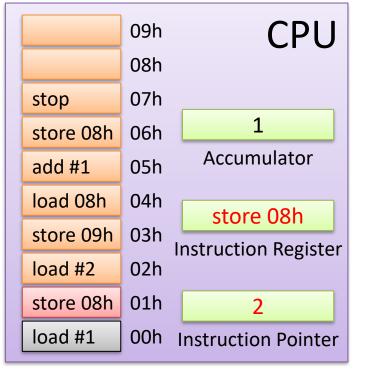
Program Execution (4)

Second Instruction – Instruction Fetch

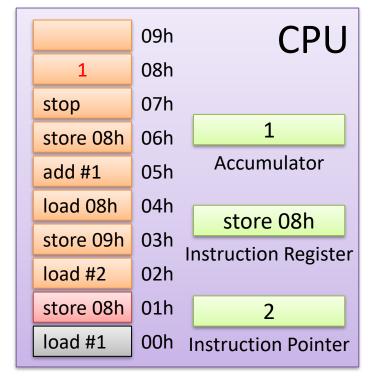


Program Execution (4)

Second Instruction – Execution

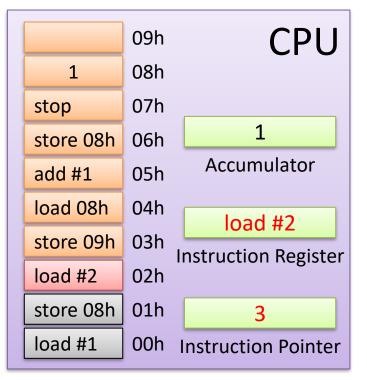


After Instruction Fetch



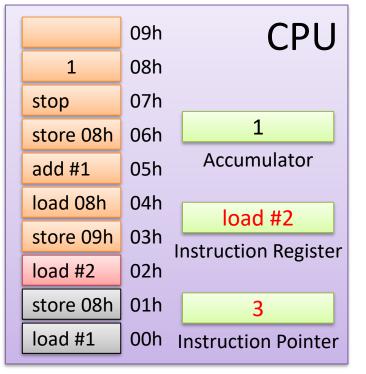
Program Execution (5)

• Third Instruction – Instruction Fetch

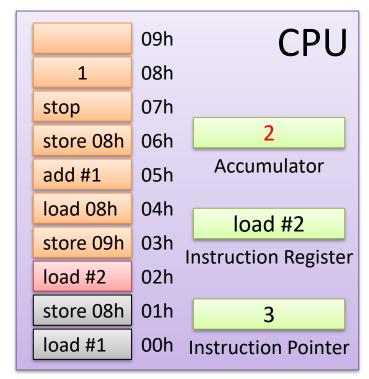


Program Execution (5)

• Third Instruction – Execution

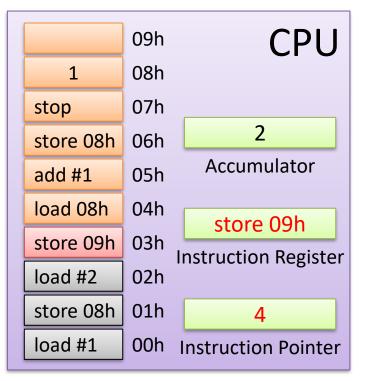


After Instruction Fetch



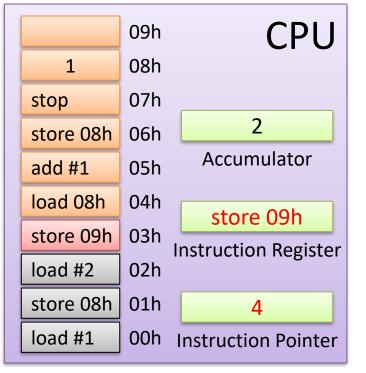
Program Execution (6)

• Fourth Instruction – Instruction Fetch

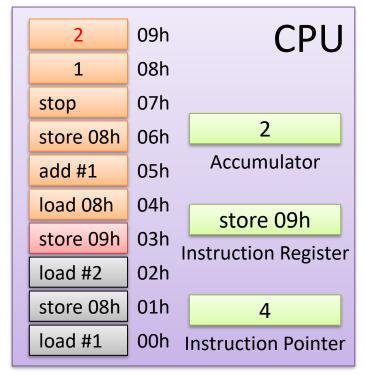


Program Execution (6)

• Fourth Instruction – Execution

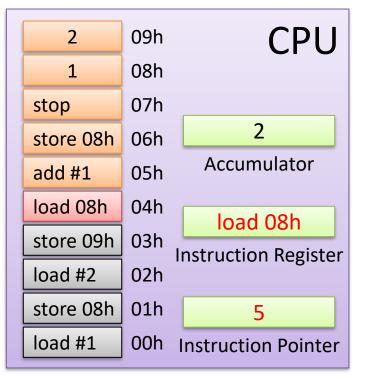


After Instruction Fetch



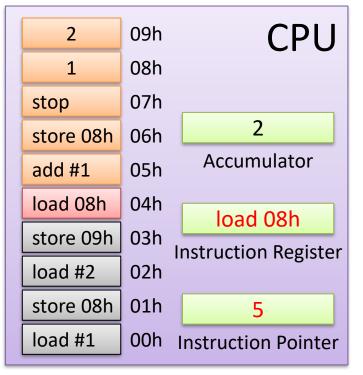
Program Execution (7)

• Fifth Instruction – Instruction Fetch

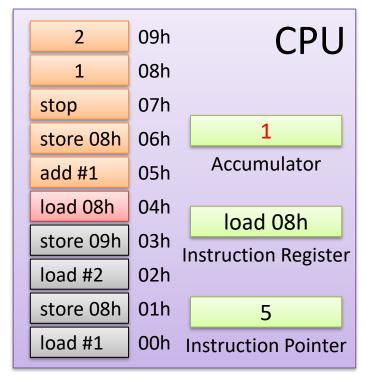


Program Execution (7)

• Fifth Instruction – Execution

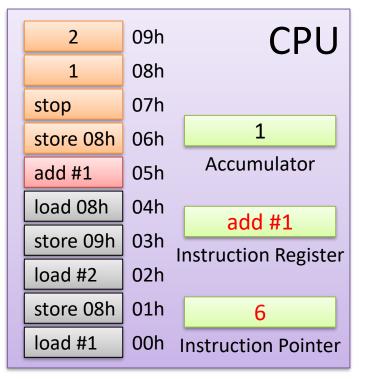


After Instruction Fetch



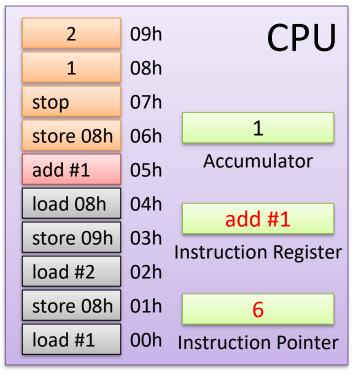
Program Execution (8)

• Sixth Instruction – Instruction Fetch

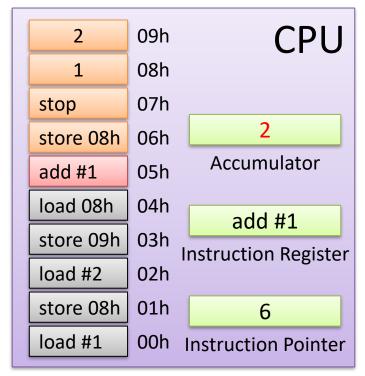


Program Execution (8)

• Sixth Instruction – Execution

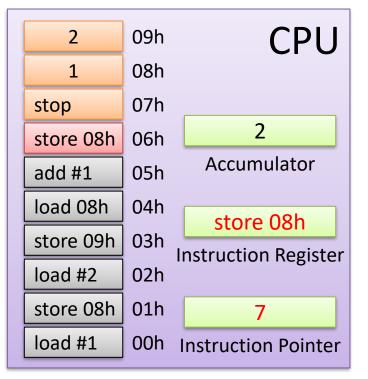


After Instruction Fetch



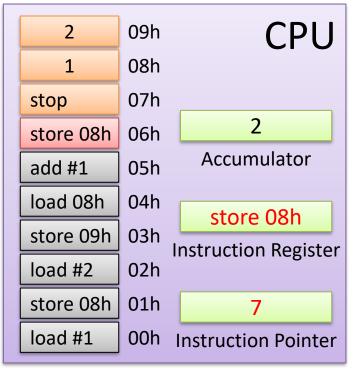
Program Execution (9)

• Seventh Instruction – Instruction Fetch

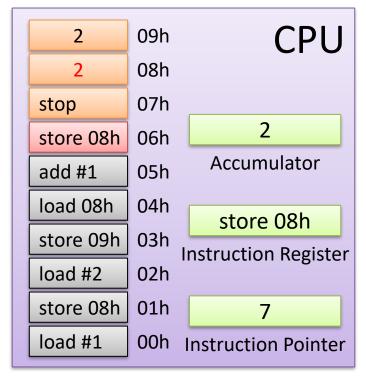


Program Execution (9)

Seventh Instruction – Execution

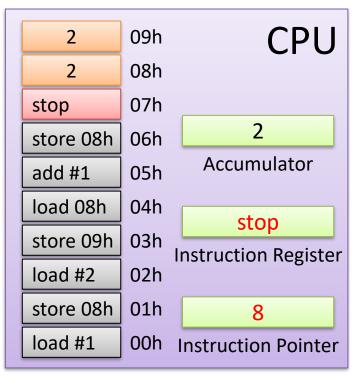


After Instruction Fetch



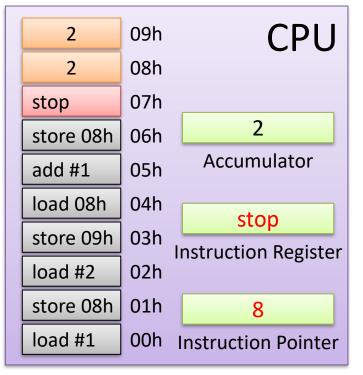
Program Execution (10)

• Eight Instruction – Instruction Fetch

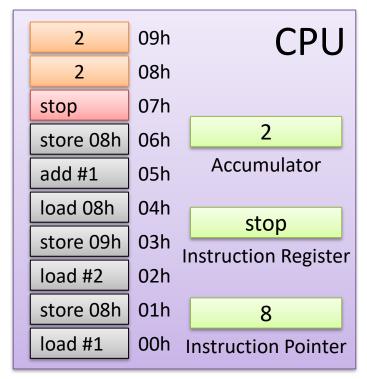


Program Execution (10)

• Eight Instruction – Execution



After Instruction Fetch



Program Execution (11)

• Final State

