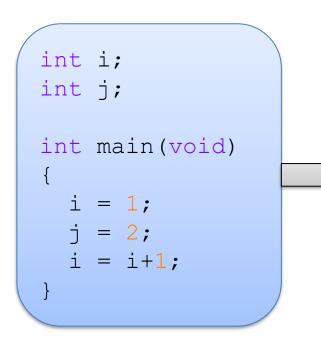
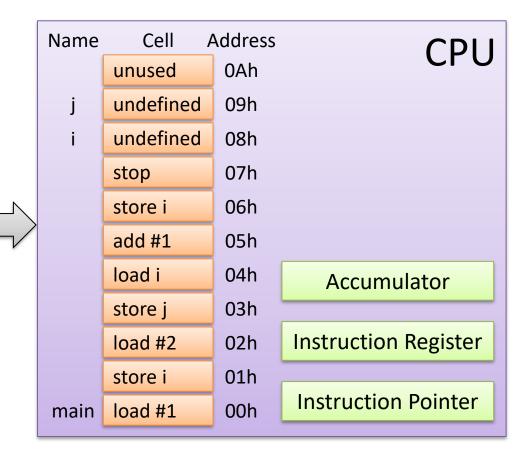
### **Program Execution**

### Networks and Embedded Systems First Grade Level Wolfgang Neff

### Program Execution (1)

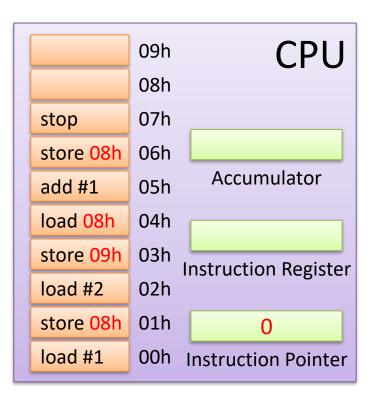
Compilation





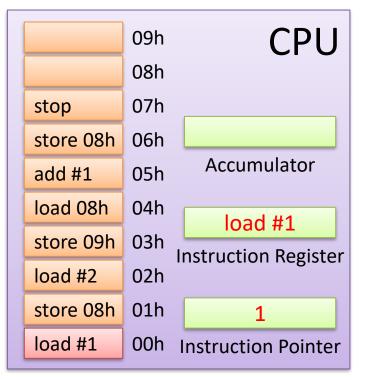
### Program Execution (2)

• Initial State



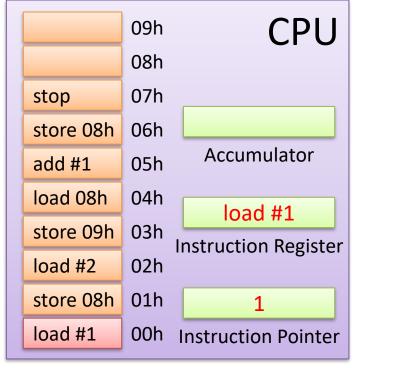
### Program Execution (3)

• First Instruction – Instruction Fetch

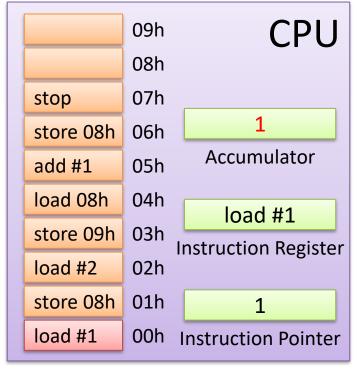


# Program Execution (3)

• First Instruction – Execution

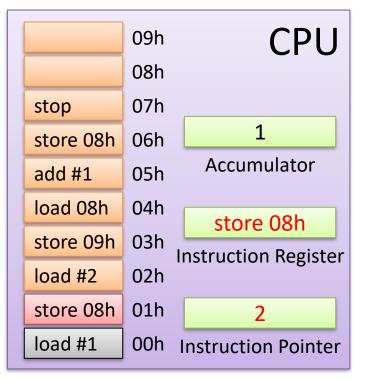


### After Instruction Fetch



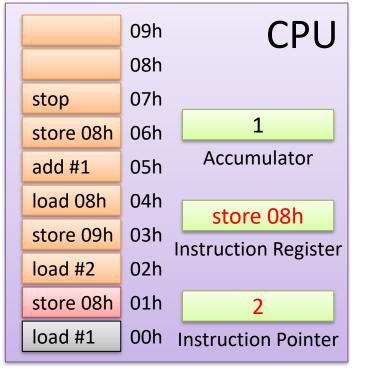
### **Program Execution (4)**

Second Instruction – Instruction Fetch

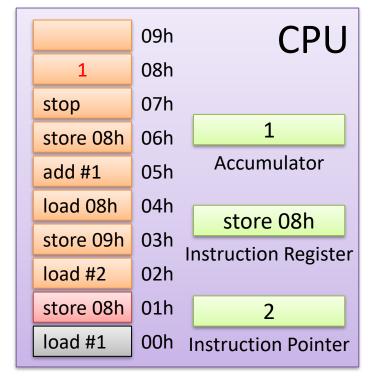


# Program Execution (4)

Second Instruction – Execution

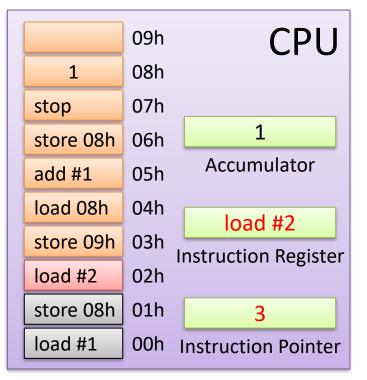


### After Instruction Fetch



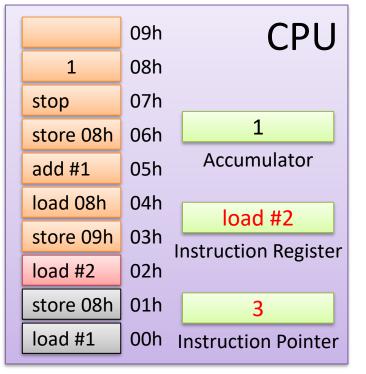
### **Program Execution (5)**

• Third Instruction – Instruction Fetch

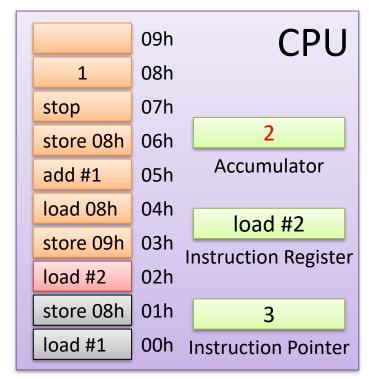


# Program Execution (5)

• Third Instruction – Execution

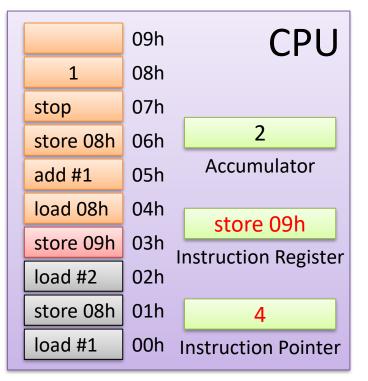


### After Instruction Fetch



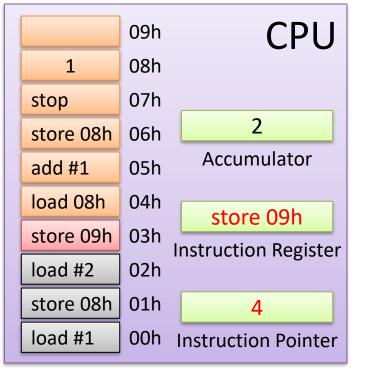
### **Program Execution (6)**

• Fourth Instruction – Instruction Fetch

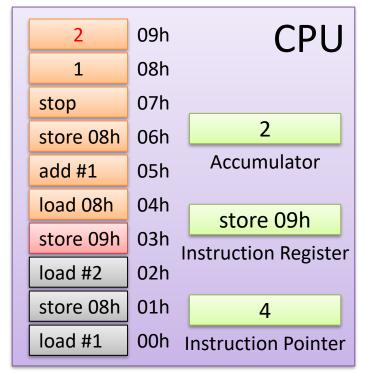


# Program Execution (6)

• Fourth Instruction – Execution

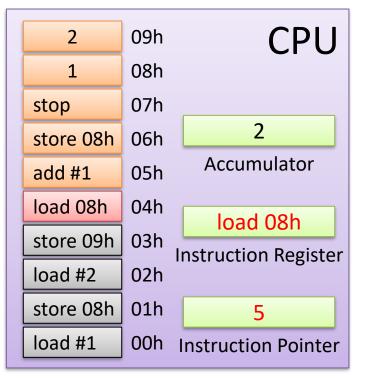


### After Instruction Fetch



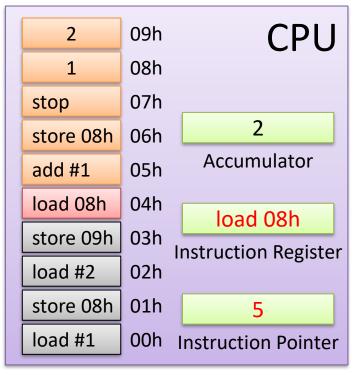
### Program Execution (7)

• Fifth Instruction – Instruction Fetch

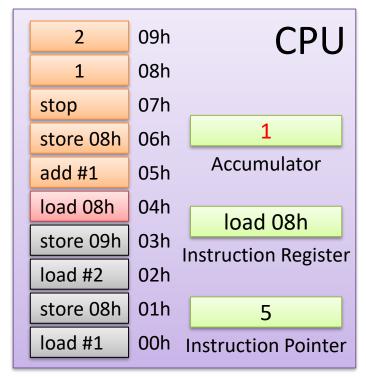


# Program Execution (7)

• Fifth Instruction – Execution

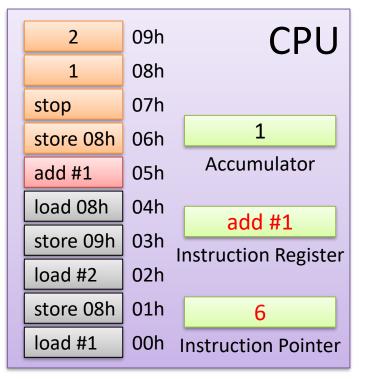


#### After Instruction Fetch



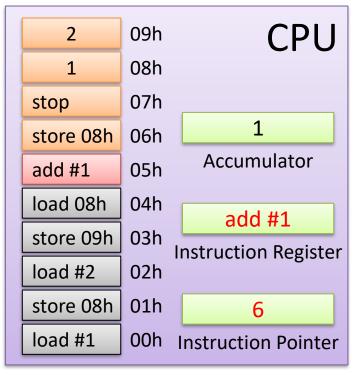
### **Program Execution (8)**

• Sixth Instruction – Instruction Fetch

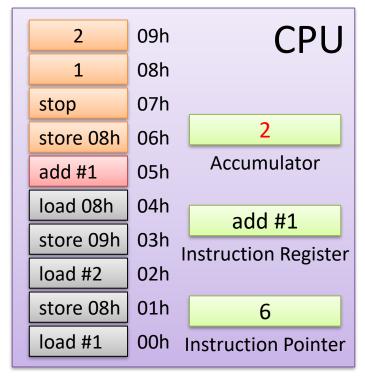


# Program Execution (8)

• Sixth Instruction – Execution

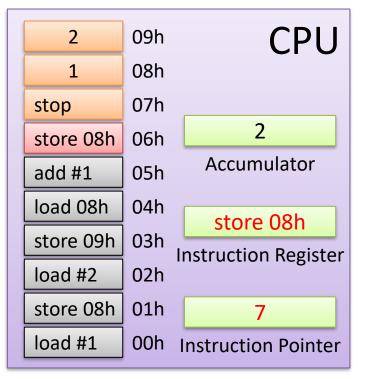


#### After Instruction Fetch



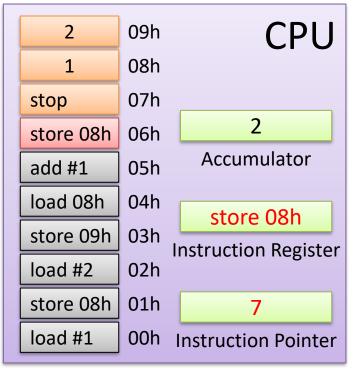
### Program Execution (9)

• Seventh Instruction – Instruction Fetch

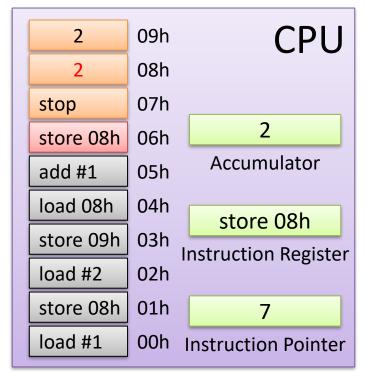


# Program Execution (9)

Seventh Instruction – Execution

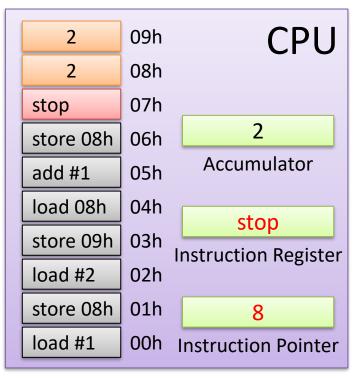


### After Instruction Fetch



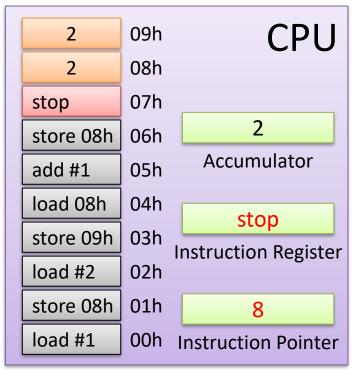
### Program Execution (10)

• Eight Instruction – Instruction Fetch

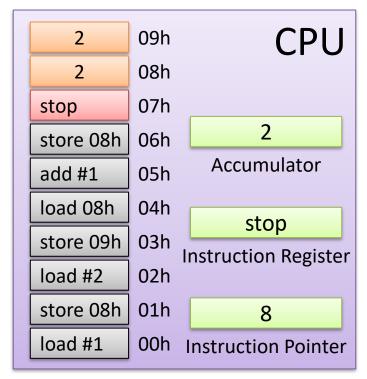


# Program Execution (10)

• Eight Instruction – Execution



#### After Instruction Fetch



### Program Execution (11)

• Final State

