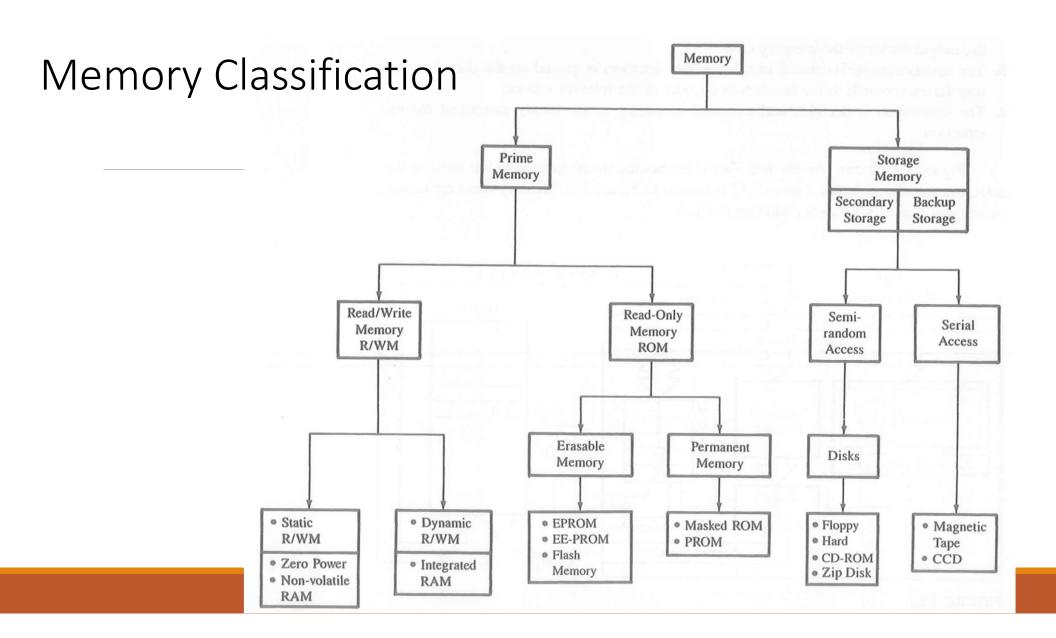
# 8085 Memory Mapping



### Memory

Stores binary instructions and data for the microprocessors

Primary Memory – R/W and ROM

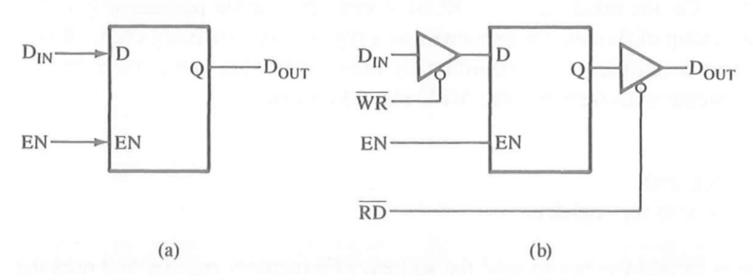
R/W- made of registers

ROM-stores information permanently in the form of diodes

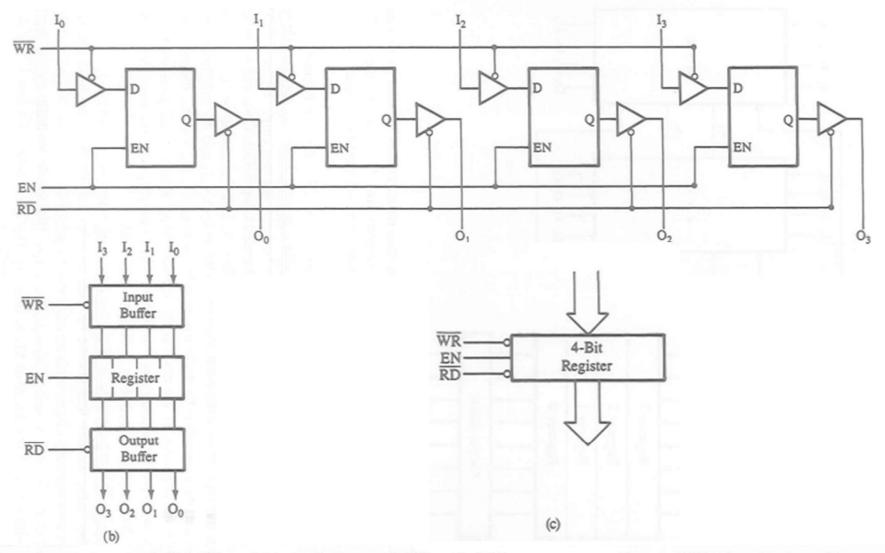
To communicate with the memory, MPU should able to

- Select the chip
- Identify the register
- Read from or to write into the register

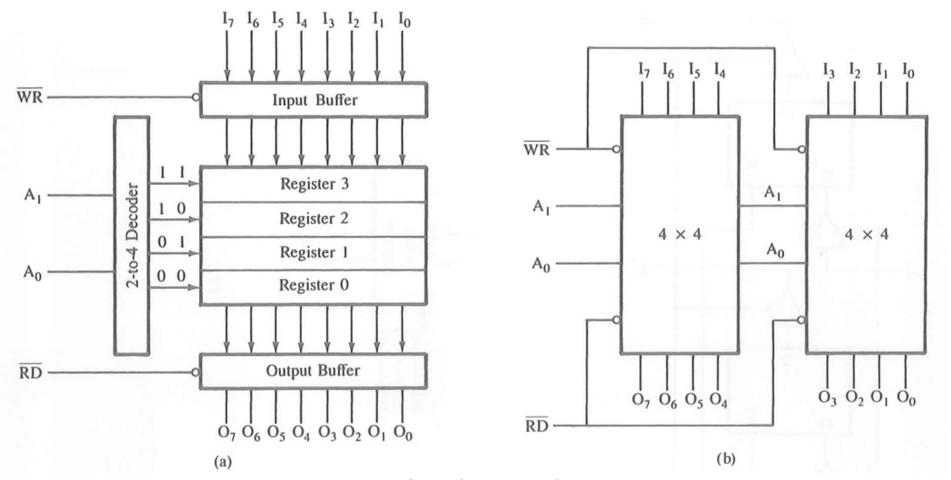
## Latch as a storage element



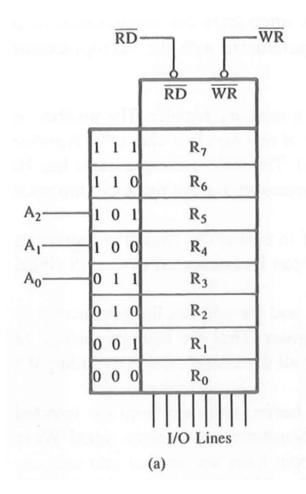
Latches as Storage Element: Basic Latch (a) and Latch with Two Tri-State Buffers (b)

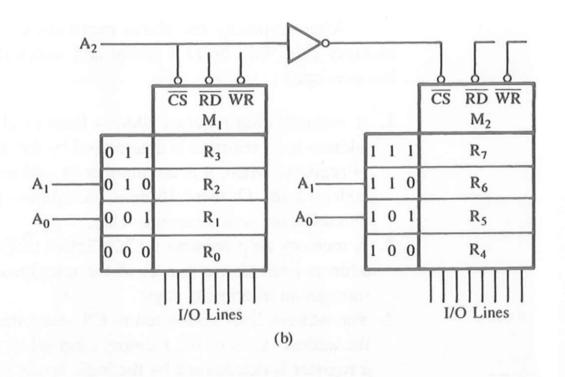


Four Latches as a 4-Bit Register (a) and Block Diagrams of a 4-Bit Register (b and c)



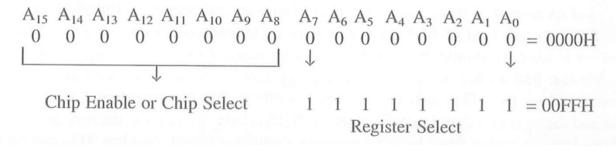
4x8 Bit register

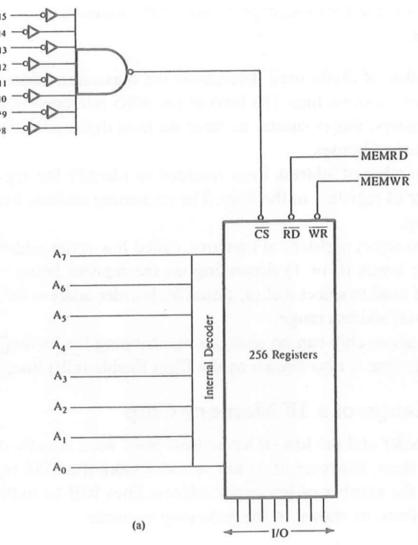




## Memory Mapping

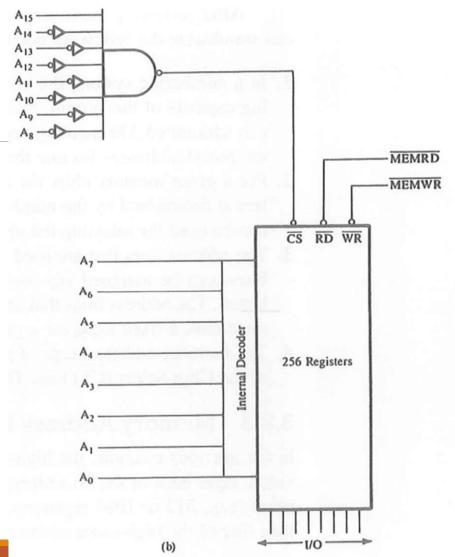
#### 256 Bytes of Memory



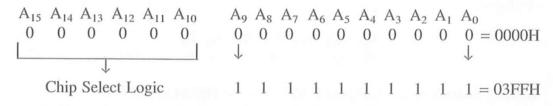


Memory Address ranging from 8000H to 80FFH





#### Memory Address Range of 1K Memory Chip



The memory addresses range from 0000H to 03FFH.

