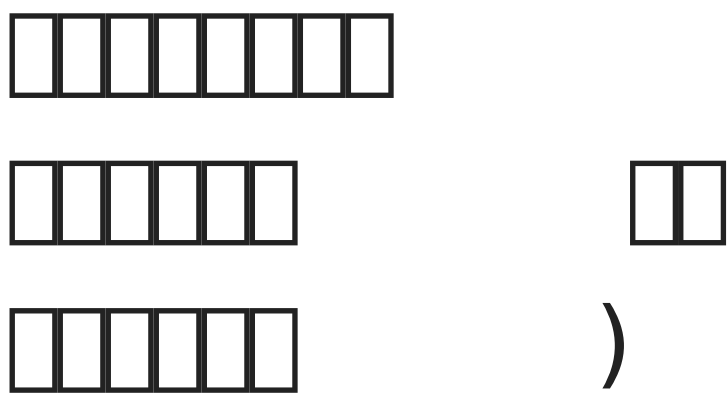


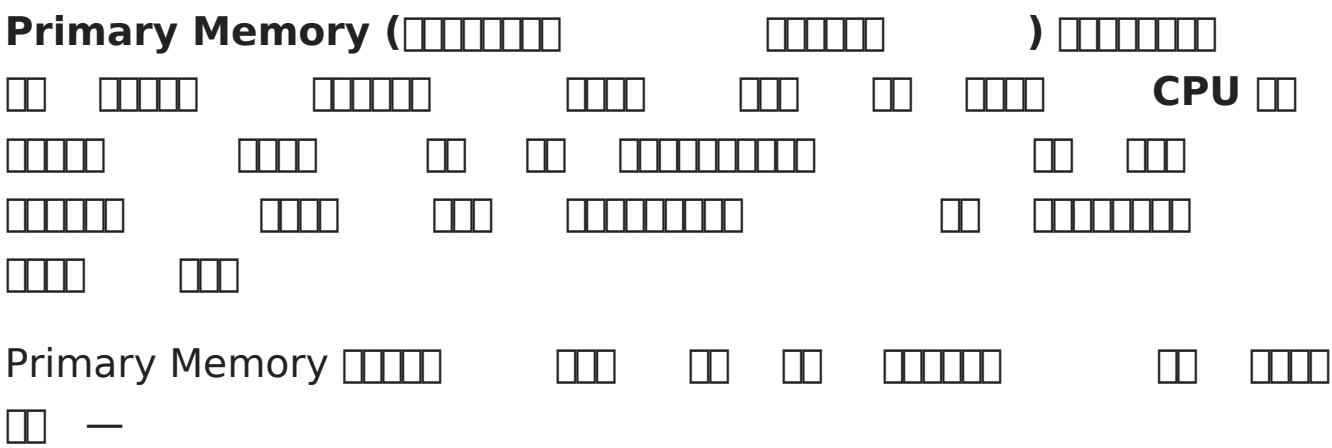
Types of Primary Memory (



Primary Memory is the main memory of a computer. It is directly connected to the CPU and stores the data and instructions required for processing.

Primary Memory is mainly of **two types**:

- 1. **RAM (Random Access Memory)**
- 2. **ROM (Read Only Memory)**



- 1. **RAM (Random Access Memory)**
- 2. **ROM (Read Only Memory)**

RAM (Random Access Memory)

RAM is a **temporary (volatile)** memory. It stores data and programs only while the computer is running.

When the computer is turned OFF, all data stored in RAM is lost.

1. RAM is **(Temporary / Volatile)**

2. When the computer is turned ON, data is stored in RAM.

3. When the computer is turned OFF, data is lost from RAM.

Example: MS Word document is saved in RAM.

When the computer is turned OFF, the document is lost.

Features of RAM

- Temporary Memory
- Read and Write Memory
- Fast Speed
- Directly Connected to CPU

Types of RAM (Random Access Memory)

1. SRAM (Static RAM)

- Very Fast
- Expensive
- Used in Cache Memory
- Does not need frequent refreshing

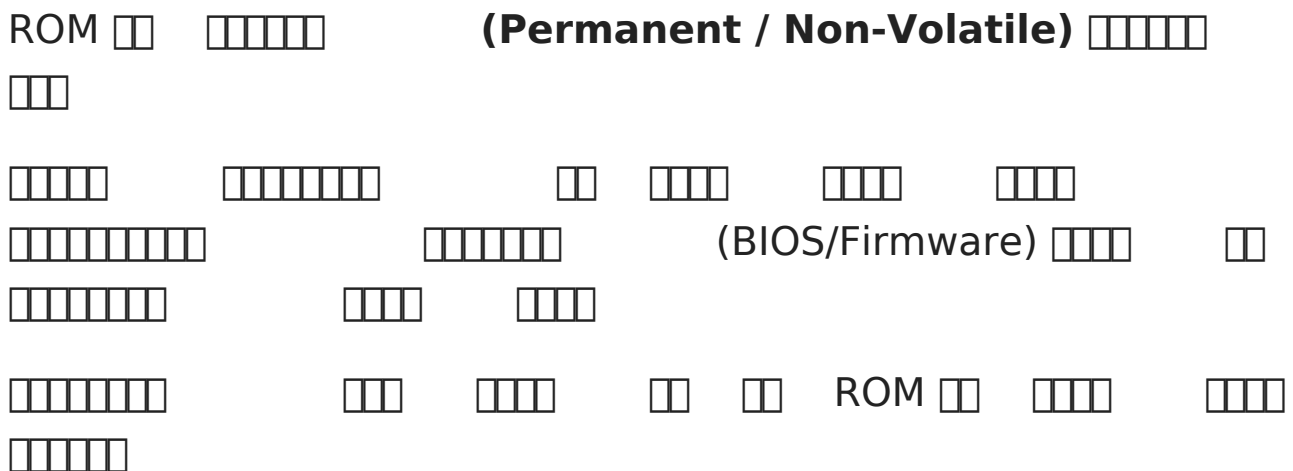
2. DRAM (Dynamic RAM)

- Slower than SRAM
- Less Expensive
- Used as Main Memory
- Needs continuous refreshing

ROM (Read Only Memory)

ROM is a **permanent (non-volatile)** memory. It stores important startup instructions required to boot the computer.

The data stored in ROM remains safe even after the computer is turned OFF.



Features of ROM

- ☐ Permanent Memory
- ☐ Stores Boot Program
- ☐ Data Remains Safe
- ☐ Mostly Read Only

Types of ROM (ROM)

1. PROM (Programmable Read Only Memory)

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2. EPROM (Erasable Programmable Read Only Memory)

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3. EEPROM (Electrically Erasable Programmable Read Only Memory)

Electricity □□ □□□□□ □□ □□□□□ □□□□□
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Difference Between RAM and ROM

RAM	ROM
Temporary Memory	Permanent Memory
Data Lost after Power OFF	Data Remains Safe
Read & Write	Mostly Read Only
Used During Processing	Used During Booting
Fast	Slower than RAM