

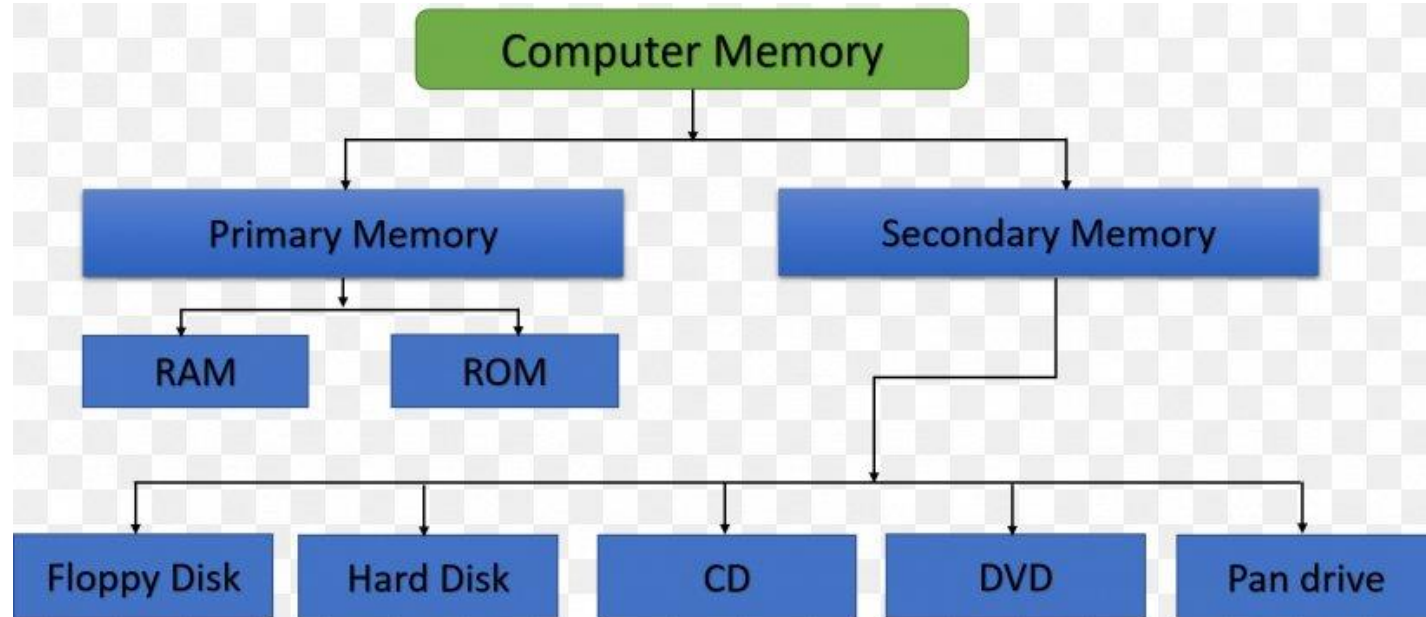
Introduction to Computer(011301)

Lecture # 23

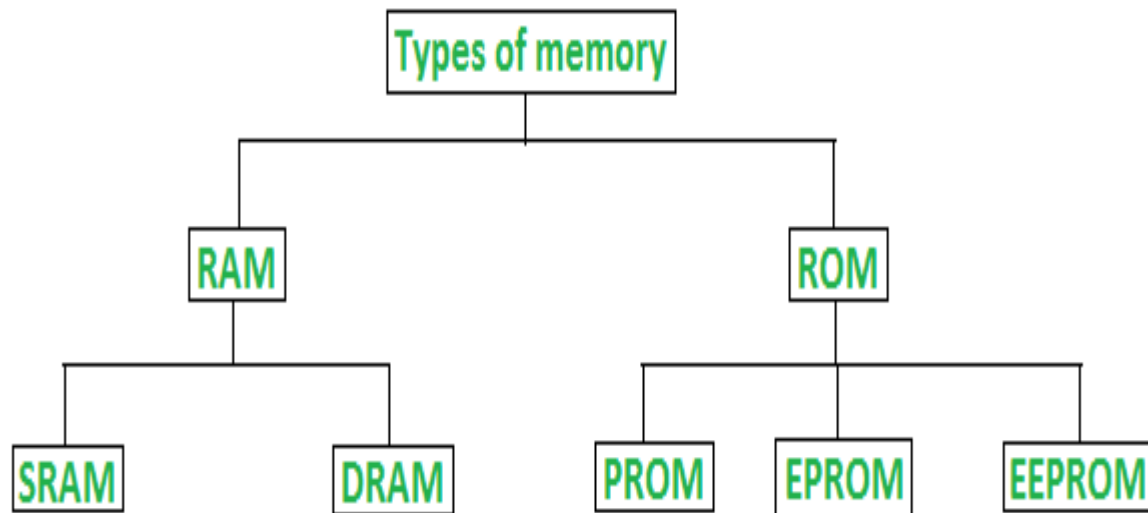
Topics

- Basic types of Computer Memory
- Types of Main Memory
- Primary Memory
- Secondary Memory

Basic types of Computer Memory



Types of Primary Memory



Classification of computer memory

Memory

- **Memory** is the ability to take in information, store it, and recall it at a later time. In psychology, **memory** is broken into three stages: encoding, storage, and retrieval. Stages of **memory**: The three stages of **memory**: encoding, storage, and retrieval. Problems can occur at any stage of the process.

Continue....

- Memory is the faculty of the brain by which data or information is retrieved when needed after being encoded and, stored. one aspect of it deals with the retention of information over time for the purpose of influencing future action.

Primary Memory

- What is the definition of primary memory?
- **Primary memory** is computer **memory** that a processor or computer accesses first or directly. It allows a processor to access running execution applications and services that are temporarily stored in a specific **memory** location. **Primary memory** is also known as **primary** storage or main **memory**.

Example

- What is primary memory give example?

- An **example** of **Primary memory** is **RAM** and ROM that store programs.

These **memories** are limited in capacity **and** manufactured by using integrated circuits (IC) or semiconductor device. Its speed of Data accessing is faster than secondary **memory**.

Secondary memory

- **Secondary memory** is where programs and data are kept on a long-term basis. Common **secondary storage devices** are the hard disk and optical disks. The hard disk has enormous storage capacity compared to main **memory**. The hard disk is usually contained inside the case of a computer.

Secondary Memory Example

- **What is secondary memory example?**
- **Secondary memory** refers to storage devices, such as hard drives and solid state drives. It may also refer to removable storage media, such as USB flash drives, CDs, and DVDs. ...
For **example**, a computer may have a one terabyte hard drive, but only 16 gigabytes of RAM

Differences between primary and secondary Memory?

- What are the major differences between primary and secondary memory?
- The key **difference between primary and secondary memory** is that **primary memory** can be directly accessed by the CPU whereas, the CPU can not directly access the **secondary memory**. The **primary memory** of the computer is also known as the **main memory** of the computer. However, **secondary memory** is known as auxiliary **memory**