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1 ★ difference between sequential access and Direct access storage device :-

- Sequential access device are useful when used for backup and recovery, it's important to step through carefully. But it is very slow access method.

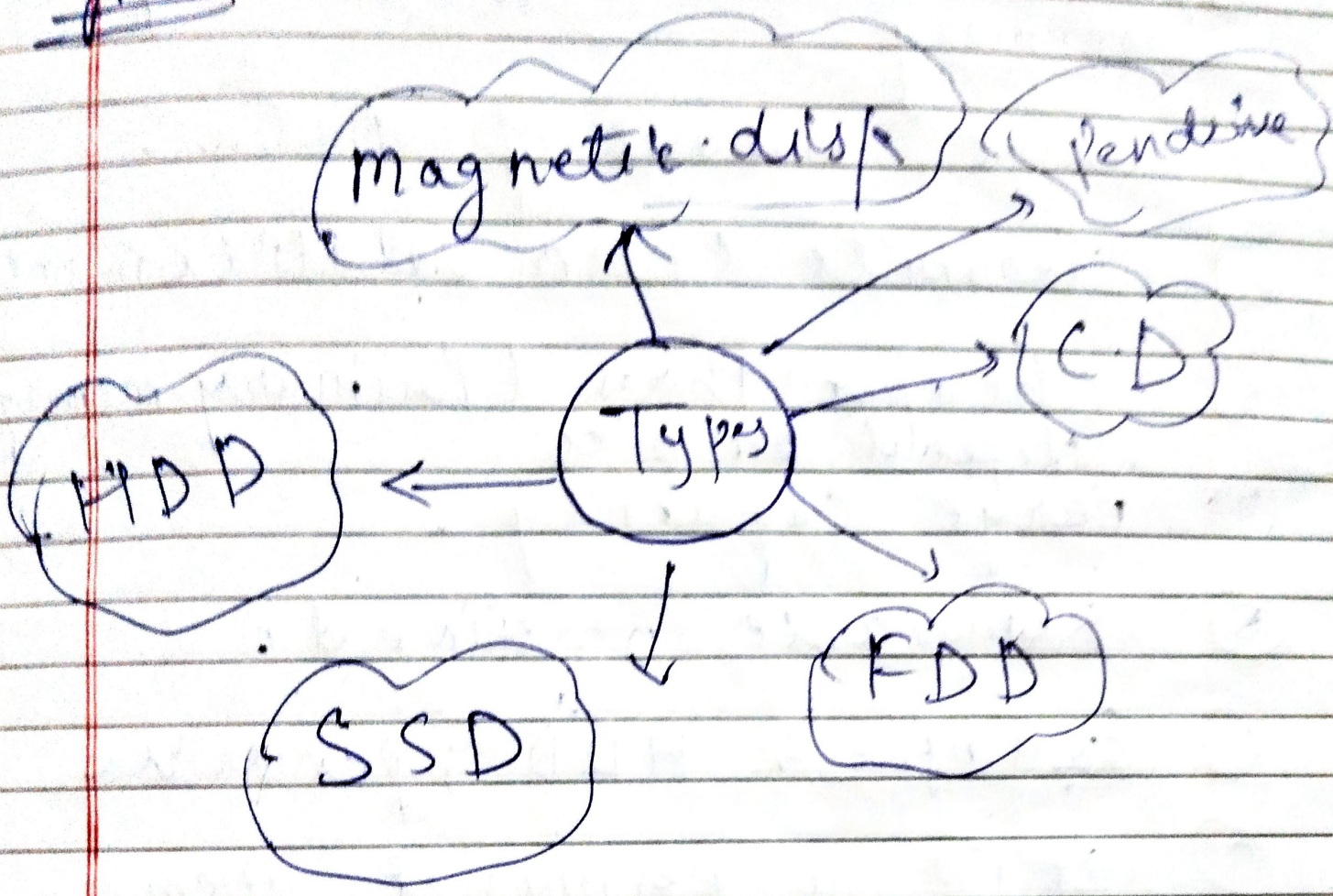
- Direct access allows the access of any element directly by locating it by its Index number or address.

Magnetic tape has only sequential access but CDs ~~hard~~ had direct access.

③ Secondary memory

Secondary memory is also known as auxiliary memory & it permanently stores programs & data. This memory is retained when the power is turned off (non volatile, life time store)

Types :-



Example :- ① SSD - Solid State drives

- ② CD → Compact Disk
- ③ HDD → Hard Disk drives
- ④ magnetic Disk

## ⑤ Characteristics of Secondary memory

- ① Large Amount of Data.
- ② Terabyte (Non volatile in nature)
- ③ Cheaper than (Primary memory)  
Depend on bits
- ④ Large Capacity.
- ⑤ Removable or fixed.
- ⑥ Example → HDD ; pen drive
- ⑦ It is a permanent memory.
- ⑧ Five secondary storage device
- ⑨ → Solid state drive
- ⑩ → floppy disks
- ⑪ → flash drives
- ⑫ → optical disks.

## ④ Fixed Storage and Removable Storage

- ① → Fixed storage media is an internal storage medium like hard disk / s

that is fixed inside the computer.

Type : ① Flash memory

② Hard disk drive

③ Solid state disks

② Removable Storage

→ Removable storage is a type of storage device that can be removed from a computer whilst the system is running.

Example : External Hard disk.