1\_ List the access method on memory?

S:

* Sequential Access
* Direct Access
* Random Access
* Associative Access

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2\_ Write notes about “word” on memory?

S:

A **word** is the natural unit of data used by a particular [processor](https://en.wikipedia.org/wiki/Central_processing_unit) design. A word is a fixed-sized [piece of data](https://en.wikipedia.org/wiki/Data_(computing)) handled as a unit by the [instruction set](https://en.wikipedia.org/wiki/Instruction_set) or the hardware of the processor.

A word size of 10 or 12 [decimal](https://en.wikipedia.org/wiki/Decimal) digits, and some early [decimal computers](https://en.wikipedia.org/wiki/Decimal_computer) had no fixed word length at all. Early binary systems tended to use word lengths that were some multiple of 6-bits, with the 36-bit word being especially common on [mainframe](https://en.wikipedia.org/wiki/Mainframe) computers. The introduction of [ASCII](https://en.wikipedia.org/wiki/ASCII) led to the move to systems with word lengths that were a multiple of 8-bits, with 16-bit machines being popular in the 1970s before the move to modern processors with 32 or 64 bits.[]](https://en.wikipedia.org/wiki/Word_(computer_architecture)#cite_note-Beebe_2017-1) Special-purpose designs like [digital signal processors](https://en.wikipedia.org/wiki/Digital_signal_processor), may have any word length from 4 to 80 bits

3\_ Write notes about memory hierarchy?

S:

The memory in a computer can be divided into five hierarchies based on the speed as well as use. The processor can move from one level to another based on its requirements. The five hierarchies in the memory are registers, cache, main memory, magnetic discs, and magnetic tapes. The first three hierarchies are volatile memories which mean when there is no power, and then automatically they lose their stored data. Whereas the last two hierarchies are not volatile which means they store the data permanently.