

Grade 7

ICT

Unit 1

Central

Processing Unit

Reading

Material



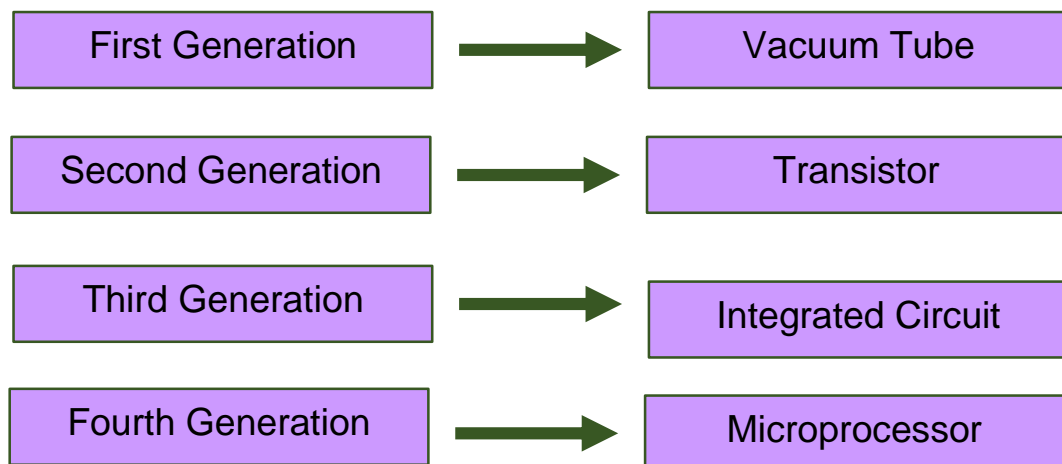
Evolution of Computers

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Evolution of Computers



- Computers are classified into different generations based on the technology used.
- This technology is used to build the Central Processing Unit of a computer.

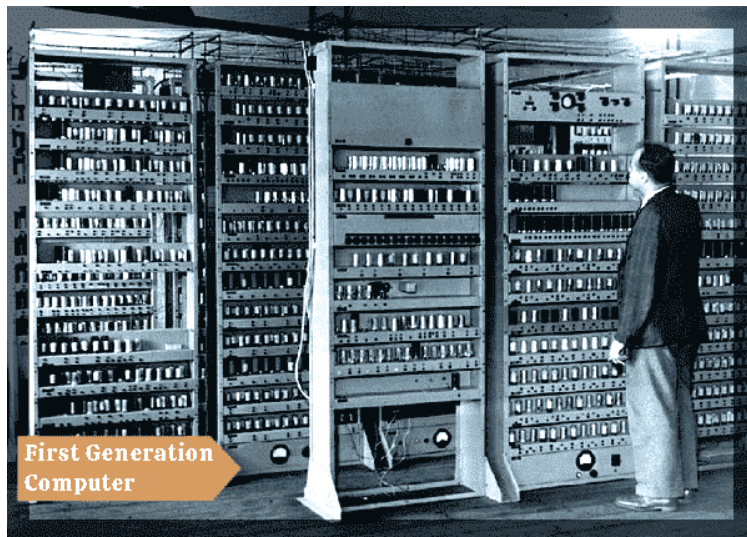


First Generation

- Technology - Vacuum Tube
- Size of the computer - Needed large space
- Speed - Measured in milliseconds
- Examples



ENIAC , UNIVAC , EDVAC



Second Generation

- Technology - Transistor
- Size of the computer - Smaller than 1st generation
- Speed - Measured in microseconds
- Examples

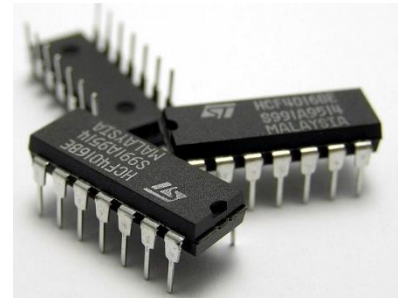
IBM 7030 , CDC 1604



Third Generation

- Technology - Integrated Circuit
- Size of the computer - Smaller than 2nd generation
- Speed - Measured in nanoseconds
- Examples

IBM 360 , CDC 6600

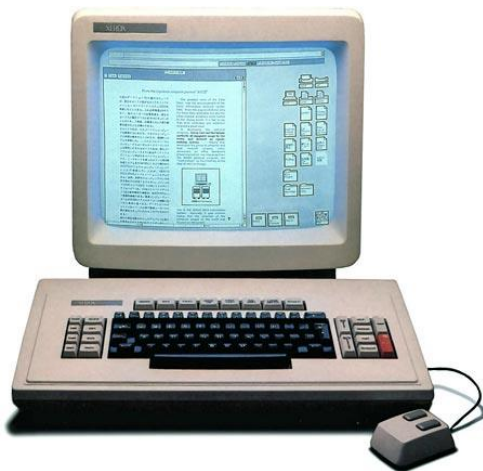


Fourth Generation

- Technology
 - Microprocessor
- Size of the computer
 - Smaller than 3rd generation
- Speed
 - Millions of instructions per seconds
- Examples



Modern computers





First Generation

Size increased



**Second
Generation**

Speed increased

Capacity increased



Third Generation

**Power consumption
reduced**



Fourth

**Heat generation
reduced**