

## 2. Computer Architecture (Module 2)

### 2.1 Computer System

**Computer System**... hardware, software, and documentation (input/output devices, memory, communication, the hardware and software used to create and use the system)

**Computer Architecture**... collection of architectural principles that guide the design of the system

**Computer Hardware**... physical parts of computer system that are visible to the user (e.g., monitor, keyboard, mouse, etc.)

### 2.2 Design of Computer Systems

- 1. **Requirements**
  - 1.1 **Functional Requirements**
    - 1.1.1 **Hardware**... what physical parts are needed to implement the system
    - 1.1.2 **Software**... software that will run on the hardware
    - 1.1.3 **Performance**... how fast the system will run
  - 1.2 **Non-functional Requirements**
    - 1.2.1 **Reliability**... how long the system will run without failing
    - 1.2.2 **Security**... how the system will protect data
    - 1.2.3 **Availability**... how often the system will be available
    - 1.2.4 **Scalability**... how the system will grow as the number of users increases
    - 1.2.5 **Interoperability**... how the system will work with other systems

**Architecture**... is a set of principles that guide the design of the system (e.g., how the system will be implemented, how the system will be tested, etc.)

**Computer Architecture**... is a set of principles that guide the design of the computer system (e.g., how the system will be implemented, how the system will be tested, etc.)

### 2.3 Computer Architecture

- 1. **Early History**
  - 1.1 **1st Generation**... vacuum tubes, relays, and switches
  - 1.2 **2nd Generation**... transistors, integrated circuits, and microprocessors
  - 1.3 **3rd Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.4 **4th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.5 **5th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.6 **6th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.7 **7th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.8 **8th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.9 **9th Generation**... integrated circuits, microprocessors, and microcomputers
  - 1.10 **10th Generation**... integrated circuits, microprocessors, and microcomputers
- 2. **Computer Architecture**
  - 2.1 **Hardware Architecture**
    - 2.1.1 **Central Processing Unit (CPU)**... the part of the computer that does the actual processing
    - 2.1.2 **Memory**... the part of the computer that stores data and instructions
    - 2.1.3 **Input/Output (I/O) Devices**... the part of the computer that communicates with the outside world
  - 2.2 **Software Architecture**
    - 2.2.1 **Operating System**... the software that manages the hardware and provides a user interface
    - 2.2.2 **Application Software**... the software that performs the tasks that the user wants to do

# Answer Key Computer Science Illuminated

**Gene R. Hawes**



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**Official Gazette of the United States Patent Office** United States. Patent Office, 1971 **Popular Science**, 1989  
**Resources in Education**, 1990-04 **The MATYC Journal**, 1980 Communication Outlook, 1978 Comp Euro, 1991 The Computing Teacher, 1979 **The 1984 Educational Software Preview Guide**, 1984 **I'm Lovin' Lit Interactive Vocabulary Notebook, Grades 6 - 8** Erin Cobb, 2018-07-02 The I m Lovin Lit Interactive Vocabulary Notebook for grades 6 8 is the perfect hands on addition to any language arts or word study curriculum This customizable resource allows teachers to format lessons how they see their students learn best The templates and lessons in this book help make teaching Greek and Latin roots prefixes and suffixes a hands on interactive experience that engages students and actively involves them in the learning process This valuable note taking addition to the classroom helps ensure active and engaged learning while acting as a trusted reference for students throughout the year The I m Lovin Lit series features comprehensive lessons and activities that are created to reach a variety of learning styles Targeted for upper elementary and middle school students this series offers teachers an essential tool to help them teach engaging subject matter with confidence Designed to work with an existing curriculum I m Lovin Lit includes comprehensive lessons and activities photos and complete assembly instructions *Item Response Analysis* Spisak, Andrew W., 1980 **Engineering Education**, 1985 *New Scientist and Science Journal*, 2001-03 *Christian Home Educators' Curriculum Manual* Cathy Duffy, 1997-11 Getting College Course Credits by Examination to Save \$\$\$ Gene R. Hawes, 1979 *Control Solutions*, 2002 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2013 **TIPSTER Text Program, Phase II**, 1996 Proceedings of Workshops sponsored by the DARPA TIPSTER Program for Advances in Text Processing

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