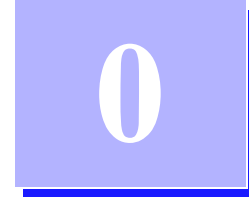


# Solutions to Quick Check Questions



## Introduction to Computers and Programming Languages

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### 0.1 A History of Computers

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1. Who was the first computer programmer?

*Ada Lovelace, daughter of Lord Byron.*

2. Who designed the Difference and Analytical Engines?

*Charles Babbage.*

3. How many generations of computers are there?

*Four.*

### 0.2 Computer Architecture

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1. Name five major components of a computer.

*CPU, RAM, Input/Output devices, Secondary storage devices, and Communication Devices.*

2. What is the difference between volatile and nonvolatile memory?

*Volatile memory loses its contents when the power to a computer is removed. Non-volatile memory retains its contents even after the power to a computer is removed.*

3. What does the acronym CPU stand for?

*Central Processing Unit, frequently characterized as the brain of a computer.*

4. How many bytes does the 64Kb RAM have?

*$64 * 1024 = 65,536$  bytes.*

5. Which device connects a computer to the Internet using a phone line?

*A communication device called modem.*

### **0.3 Programming Languages**

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No Quick Check questions.

### **0.4 Java**

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No Quick Check questions.