

## CS 271 Computer Architecture and Assembly Language

### Self-Check for Lecture#1

#### Solutions

#### 1. Terms / Definitions

- a. "hardware" refers to **the tangible physical devices that comprise a computer system.**
- b. "software" refers to **the instructions that control the hardware.**

#### 2. True / False

- a. **True** High-level language programs are portable to a variety of computer architectures.
- b. **False** Assembly language programs are portable to a variety of computer architectures.

#### 3. How is assembly language related to a computer's machine language?

**Each assembly language instruction maps to one machine instruction in the computer's instruction set.**

#### 4. How are assembly language statements converted to a computer's machine language?

**A software system (an assembler) accepts the assembly language source code as input, and produces architecture-specific machine code as output.**