

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.