Quiz 4  
CSE 30  
Fall 2000

#1.  
Put the following in the correct order/sequence using the numbers to the left of each word:

1. compiler  
2. loader  
3. assembler  
4. execution of the program  
5. source code  
6. linker  
7. preprocessor

______ —> ______ —> ______ —> ______ —> ______ —> ______ —> ______

#2.  
a) Convert \(-26.375\)\(_{10}\) to binary fixed-point and single precision IEEE floating-point representation (expressed in hexadecimal).

binary fixed-point ____________________________ \( \times 2^0 \)

IEEE floating-point ____________________________________________ (hexadecimal)

b) Convert \(0x42F68000\) (single precision IEEE floating-point representation) to fixed-point decimal.

fixed-point decimal ____________________________ (decimal / no exponential notation)

#3. Fill in the letter corresponding to the correct answer for each of the following:

A. loader  
B. linker  
C. assembler

Resolves address/symbols of external variables and subprograms ________ (2 points)

Generates machine code from assembly language ________ (2 points)

Copies executable binaries on disk to locations in memory for execution ________ (2 points)

Takes .s files as input ________ (2 points)