1. Write the following in 2-digit hex.
   a. 0xA2|0x06 0xA6
   b. 0xB7>>2 0x2D

2. How many bits (not bytes!) are typically used to store a:
   a. char? 8 bits
   b. unsigned int? 32 bits
   c. float? 32 bits

3. Name two things that the preprocessor does

   Strips comments out of the code, replaces constants initialized with define, replaces macros, and brings in header function prototypes/constants.

4. You are given the following C code inside the main function:

   float f; int i; char str[100];
   scanf("%f %d", --MISSING CODE --)

   (a) Finish the last half of line 2, i.e., replace --MISSING CODE--, &f, &i);

   (b) Part b was excluded from the quiz grade.

5. The code below is inside a function, so x and arr are local variables. Give the value of x after each line below, or write error/unknown.

   int x, arr[5] = {1, 2, 3, 4, 5}; // (a) x equals err/unk
   x = arr[5]; // (b) x equals err/unk
   x = *arr; // (c) x equals 1
   x = &arr; // (d) x equals err/unk
   x = *(arr+3); // (e) x equals 4
   x = *(arr[2])-1)+4; // (f) x equals 6
   x = arr[*(*(arr+2))]; // (g) x equals 4

6. Write the output of the following loop:

   int i;
   for (i = 9; i >= 6; i--) printf("%d ", i);

   9 8 7 6