Exercise 2

- 1. Declare four symbolic constants that represent integer 25 in decimal, binary, octal, and hexadecimal formats.
- 2. Given the number 456789ABh, list out its byte values in little-endian order.
- 3. Given the number 456789ABh, list out its byte values in big-endian order.
- 4. Define an array of 120 uninitialized unsigned doubleword values.
- 5. Define an array of byte and initialize it to the first 5 letters of the alphabet.
- 6. Define a 32-bit signed integer variable and initialize it with the smallest possible negative decimal value. (Hint: Refer to integer ranges in Chapter 1.)
- 7. Define an unsigned 16-bit integer variable named wArray and initialize it with three values of your choice.
- 8. Define a string variable containing the name of your favorite color. Initialize it as a null-terminated string.
- 9. Define an uninitialized array of 50 signed doublewords named dArray.
- 10. Define a string variable containing the word "TEST" repeated 500 times.
- 11. Define an array of 20 unsigned bytes named bArray and initialize all elements to zero.

- 12. Tell whether each of the following instructions is legal or illegal. W1 and W2 are word variables, and D1 and D2 are doubleword variables.
 - a. MOV AL, BH
- b. MOV EAX, 1
- c. XCHG [W1], [D1]
- d. MOV EDX, [W1]