

1. Consider the following program written in C syntax:

```
void swap_met(int i, int j) {
    int temp;
    temp = i;
    i = j;
    j = temp;
}

void main() {
    int val = 3, arrlist[5] = {4, 6, 3, 1, 2};
    swap_met(val, arrlist[0]);
    swap_met(arrlist[0], arrlist[1]);
    swap_met(val, arrlist[val]);
}
```

For each of the following parameter passing methods, what are all of the values of the variable `value` and `list` after each of the three calls to `swap_met`?

- a. passed by value
 - b. passed by reference
 - c. passed by value-result
2. Write a program that reads a string from the user. If all the characters in the string are hexadecimal digits, print out the corresponding base-10 value. If not, print out an error message. Write a function named `hexValue` in the program that uses a switch statement to find the hexadecimal value of a given character. The character is a parameter to the function, and its hexadecimal value is the return value of the function. You should count lower case letters 'a' through 'f' as having the same value as the corresponding uppercase letters. If the parameter is not one of the legal hexadecimal digits, return -1 as the value of the function.