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CSCI 3731

Homework 4

1. What is wrong with the following code, and how would you fix it?

void swap(int\* a, int\* b) {

int\* tmp = a;

a = b;

b = tmp;

} // end of swap method

2. What is wrong with the following code, and how would you fix it?

char copy[8];

const char\* string = "hello";

for(int i=0; string[i] != ’\0’ && i<size; ++i) {

copy[i] = string[i];

}

printf("%s\n", copy);

1. Suppose you have a function that takes an array as an argument in the usual way, which is declared as:

void f(int\* array, int length);

Suppose you also have an array declared as:

int a[128];

How would you pass a sub-array containing only the third through sixth elements of a

to the function f?

1. What is wrong with the following code and how would you fix it?

double\* allocateArray(int length) {

double array[length];

return array;

}

5. What is wrong with the following code, and how would you fix it?

char string[6];

string[0] = ’h’;

string[1] = ’e’;

string[2] = ’l’;

string[3] = ’l’;

string[4] = ’o’;

string[4] = ’\0’;

printf("%s\n", string);

NOTE: Jared and I worked on the last programming assignment. Meaning, we helped eachother out during the programming process.