**ECE 3331, Dr. Hebert, Spr 2016 HW 6**

**Problem 1. Section 5.6, Exercise 9.**

3

**Problem 2. Section 5.6, Exercise 13.**

MAX2 is better

Consider j = MAX2( i = 1, 2);

j = ( (i = 1) > (2) ? (i = 1) : (2) );

following the order of precedence, i is set to 1 and then tested. i is not greater than 2 so j is set to 2.

i = 1, j = 2

For j = MAX1( i = 1, 2);

j = ( i = 1 > 2 ? i = 1 : 2 );

the order of precedence in this line of code would test 1 > 2 and return false so i would be set to 2. Then j is set to i and consequently j = 2.

i = 2, j = 2

**Problem 3. Section 5.6, Exercise 15.**

There is a space between max and the variables, i.e. max ( x, y ) needs to be changed to max( x, y )

**Problem 4. Section 6.2, Exercise 5.**

temp = ‘z’

letters[ 25 ] = ‘A’

letters[ 0 ] = ‘z’

the variables swap their contents.

**Problem 5. Chapter 6.2, Exercise 11.**

All int type variables

**Problem 6. Chapter 6.2, Exercises 23.**

The output of the two fragments may differ as in the second, the order in which the conditions are evaluated is not set, therefore v and w may have different values from the other side of the conditional statement because they have not been set to a[i] and a[j] respectively yet.

**Problem 7. Section 6.4, Exercise 3.**

A

A

**Problem 8. Section 6.4, Exercise 5.**

urly

u

**Problem 9. Section 6.4, Exercise 6.**

%c scans in a single character while %s scans until a new line or a white space.

**Problem 10. Section 6.4, Exercise 7, 9, and 11.**

**7:**

17

**9:**

fred Hitchcock

**11:**

Error, address should read as s or &s[0]

**Problem 11. Section 6.5, Exercise 3.**

2

4

6

8

10

16

**Problem 12. Section 6.5, Exercise 5.**

The program would sum all the numbers but exclude the first value in the integer array