

EE 2905

Dr. Johnson

Homework 3

1 – Evaluate each of the following expressions – given:

30pts

int8_t a;

a = 4;

int8_t b;

b = 100;

int8_t c;

c = 50;

Decimal value

b +

a / b

c % b

c * a

c >> 3

3 << a

2 – Evaluate each of the following expressions – given:

20pts

int8_t a;	a = 5;
int8_t b;	b = 4;
int8_t c;	c = 3;
uint8_t d;	d = 240;
uint8_t e;	e = 11;
uint8_t f;	f = 12;

Decimal value

a*b/c|a&b-c%a+b

d-e%f>>3<<3%2

3 – Evaluate each expression individually.

20pts

int a;	a = 4;	float c;	c = 1.1;	char e;	e = 'a';
int b;	b = 5;	float d;	d = 2.2;	char f;	f = 'C';

- -a - b + e++

Decimal value

b++++a- - -e

4 – evaluate each statement and indicate the type of the result.

15pts

int a;	float c;	char e;
int b;	float d;	char f;
int foo;	float boo;	char soo;
a = 4;	c = 1.1;	e = 'a'
b = 5;	d = 2.2;	f = 'C'

Value

Type

boo = b - a;

foo = c / d;

boo = b % (int) c + 2;

5 – Evaluate the following expressions individually.

15pts

```
int a;           int b;           int c;           int d;  
a = -3;         b = 6;          c = 1;          d = -2;
```

$a + b > c + d$

True/False

$a - 2 * b + b > c * 2 / 3$

$3 * b / 4 \% 5 \&& b$