EE 1910

Dr. Johnson

Homework 12

1 – Write a function, that when passed 3 float variables, sets the largest to 0 .
(The variables are changed outside the fn & no global variables allowed)
30pts

```c
void largest(float* a, float* b, float* c){
    if(*a > *b)
        if(*a > *c)
            *a = 0;
        else
            *c = 0;
    else
        if(*b > *c)
            *b = 0;
        else
            *c = 0;
}
```

2 – Write a single line of code to do each task   20pts

Create an array of ints, named ArrayInt, with 15 elements.

    int ArrayInt[15];

Create an array with integer values 6 to 12.

    int myArray[7] = {6,7,8,9,10,11,12};

Create an array of ints with 200 values, all 0 except the first 3, which are 11.

    int myArray[200] = {11,11,11};

Create an array of floats with 1000 values, all 0s.

    float myArray[1000] = {0.0};

Create an array of characters that can hold up to 26 letters.

    char myArray[26];

3 – Given an array with the following values, evaluate each snippit of code   20pts

int myArray[15] = {1 2 3 4 5 6 7 8 9 10 11 12 13 14 15};

foo = myArray[5];

foo = 6

foo = myArray[3 + 3];

foo = 7

foo = myArray[15];

foo = ??

foo = myArray[6] = myArray[5];

foo = 6

foo = myArray[(myArray[11] % 5)];

foo = 3

4 – Provide the values for each array after executing the following code snippits
each snippit is evaluated independently   30pts

given:
int myArray[6];
int j;

values in array

```
for(j = 0; j < 6; j++)
    myArray[ j ] = 2 * j;
```

| 0 | 2 | 4 | 6 | 8 | 10 |

```
for(j = 0; j < 4; j++)
    myArray[ j+1 ] = 5;
```

| ? | 5 | 5 | 5 | 5 | ? |

```
for(j = 3; j >=0; j--)
    myArray[ j ] = 5 – j;
```

| 5 | 4 | 3 | 2 | ? | ? |

```
for(j = 203; j < 206; j++)
    myArray[ j – 202] = j % 2;
```

| ? | 1 | 0 | 1 | ? | ? |

```
int myArray2[] = {5,6,7,8,9};
for(j = 0; j < 5; j++)
    myArray2[ j ] = myArray2[ 5 – j];
```

5 6 7 8 9
? 9 8 7
8 8

| ? | 9 | 8 | 8 | 9 |