EE 2905

Dr. Johnson

Homework 6

1 – Write a single line of code to do each task   10pts

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

Create an array with integer values 6 to 12.

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

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

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

2 – Given an array with the following values, evaluate each snippit of code   10pts

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

foo = myArray[5];

foo =

foo = myArray[3 + 3];

foo =

foo = myArray[15];

foo =

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

foo =

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

foo =

3 – Provide the values for each array after executing the following code snippits
each snippit is evaluated independently   20pts

given:
int myArray[6];
int j;

values in array

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

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

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

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

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

4 – Fill in the memory map at the end of the following code   30pts

```
int foo, boo;
int* zoo, soo;
int myArray[6] = {3,4,5};

foo = myArray[2];
zoo = &myArray[4];
myArray[2] = foo;
int j;
for(j = 3; j < 5; j++){
    myArray[ j ] = 2 * j % 3;
}
*zoo = 15;
myArray[5] = (int)zoo;
boo = myArray[6];
myArray[3] = boo;
```

value	address
	0x1000
	0x1004
	0x1008
	0x100C
	0x1010
	0x1014
	0x1018
	0x101C

myArray

5 – Given an array with the following values, evaluate each snippit of code   30pts

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

foo = myArray[2][2];

foo =

foo = myArray[0][1];

foo =

```
int foo1 = 0;
int foo2 = 0;
int foo3 = 0;

for (j = 0; j < 4;j++){
   foo1 += myArray[0][ j ];
   foo2 += myArray[ j ][0];
   foo3 *= myArray[ j ][ j ];
}
```

foo1 =

foo2 =

foo3 =