

**EE 1910**

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**Homework 13**

1 – Fill in the memory map at the end of the following code

50pts

```
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

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

20pts

Create an 2D array of ints, named ArrayInt, with 7 columns and 5 rows

Create the following array of ints.

7	4
3	5
5	6

Create an array of ints that can hold all the values of a 24 hour digital clock that shows hrs, min, sec, where 8AM → 8 and 8pm → 20.

3 – Given an array with the following values, evaluate each snippet 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;
```

foo1 =

```
for (j = 0; j < 4;j++){
```

foo2 =

```
    foo1 += myArray[0][ j ];
```

```
    foo2 += myArray[ j ][0];
```

```
    foo3 *= myArray[ j ][ j ];
```

foo3 =

```
}
```