

HW 20

Arrays cont'd

Name: _____ Time spent: _____ min

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

40 pts

```
int foo;  
Int boo;  
Int * zoo;  
Int * 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
	0x101C
	0x1018
	0x1014
	0x1010
	0x100C
	0x1008
	0x1004
	0x1000

myArray

2) Given an array with the following values, evaluate each snippet of code 60 pts

```
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 =

```
foo1 = foo2 = foo3 = 0
```

foo1 =

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

foo2 =

foo3 =