

COSC 251 – Lab #2.5

C is for Chasing!

Purpose: Working through some practice exercises for pointer chasing.

Task: Complete the following problems regarding pointers:

1.) Give the value of the left-hand side variable in each assignment statement. Assume the address of the blocks array is 4434.

```
int main(int argc, char** argv){
    char blocks[3] = {'A', 'B', 'C'};
    char *ptr = &blocks[0];
    char temp;

    temp = blocks[0];
    temp = *(blocks + 2);
    temp = *(ptr + 1);
    temp = *ptr;

    ptr = blocks + 1;
    temp = *ptr;
    temp = *(ptr + 1);

    ptr = blocks;
    temp = *++ptr;
    temp = ++*ptr;
    temp = *ptr++;
    temp = *ptr;

    return 0;
}
```

2.) Using pointer notation only, write a piece of code which prints the characters in a cstring in a reverse order.

```
char s[10] = "abcde";
char* cptr;
//Complete this code snippet
```

3.) Using pointer notation only, write a piece of code which returns a pointer to the maximum value of an array of doubles. If the array is empty, return NULL.

```
double* maximum(double* a, int size){  
    //complete this function  
}
```

Credit: DePaul University

Deliverable: A Word doc that contains your answers.

Due: By the start of class Monday. No exceptions. To be turned in via Digital Dropbox.