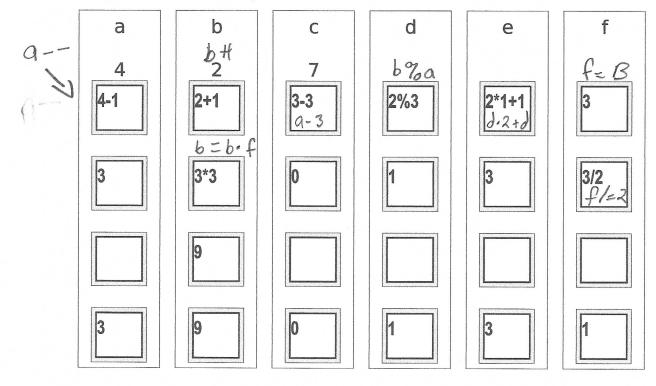# CS1428 Lab 2: Fall 2020

Name: Jason McKinnerney jlm573

Lab Section: Lab 17

Type your name at the top of this sheet. Answer the following questions and turn in this sheet before the end of class. **Open this file in a browser to type your answers and print (Ctrl+P) this file as a pdf.**

1. (14 pts) Trace the program on the following page to determine what the value of each variable will be at the end. (You must trace it by hand) Show all of your work. The bottom box is for the final value.

handwritten: a--↓
handwritten: ↑→

a	b	c	d	e	f
4	$b+1$ 2	7	$b\%a$		$f=3$
4-1	2+1	3-3 *a-3*	2%3	2*1+1 *d·2+d*	3
3	3*3 *b=b·f*	0	1	3	3/2 *f/=2*
	9				
3	9	0	1	3	1

```cpp
//Program for problem 1
using namespace std;
int main()  {
        int a, b, c, d, e, f;
        a = 4;
        b = 2;
        c = 7;
        a--;
        d = b % a;
        ++b;
        f = b;
        b = b * f;
        c = a - 3;
        e = d + 2 * d;
        f /= 2;
        return 0;
}
```

2. (6 pts) Write a short code snippet below which writes the variable name to a file named "output.txt". Assume that all necessary libraries are included. Don't forget to close the file.

```cpp
using namespace std;

int main()
{
    string name = "Indiana Jones";

    ofstream fout;
    fout.open("output.txt");
    fout << name;
    fout.close();
}
```