

Assignment 0

This assignment is **NOT** graded but is required to make sure students completed the Lab tutorials and are able to use SageMath and C. Once this tutorial is completed, students are expected to have understood how to run C in Linux and use SageMath. Report your results in one file and submit to Canvas. Include your name, Z-number, and assignment number in the assignment.

Part 1: Run the following code in C. Set first value as first 4 digits of your Z-number and the second value as last 4 digits of your Z-number. Report the output.

```
#include <stdio.h>

int main() {
    int n1, n2, i, gcd;
    printf("Enter two integers: ");
    scanf("%d %d", &n1, &n2);
    for(i=1; i <= n1 && i <= n2; ++i)
    {
        if(n1%i == 0 && n2%i == 0) {
            gcd = i;
        }
    }
    printf("G.C.D of %d and %d is %d\n", n1, n2, gcd);
    return 0;
}
```

Part 2: Run the following function in SageMath replacing value1 and value 2 with the values mentioned in part 1. Report the output and verify the results from part 1 are correct.

```
n1 = value1
n2 = value2
gcd(n1, n2)
```