

## Quiz 4 CISC 105

07/25/2005

Name: \_\_\_\_\_

A. (8 points) What is the output for the following code?

```
#include<stdio.h>
#include<string.h>

int main() {

    char *string = "String";
    char array[20] = "Another ";

    printf("The length of string is %d.\n", strlen( string ) );
    printf("The length of array is %d.\n", strlen( array ) );
    strcat(array, string);
    printf("The word is %s.\n", array );
    printf("The size of array is %d.\n", sizeof( array ) );
}
```

B. (13 points) Write the definition for a void function *doubleNumber* that takes one integer parameter that the function can modify by doubling it in the function. How would you call this function in the code?

C. (12 points) Fill in the blanks in the code to make the following program run appropriately, given that the program is to be run as

`./a.out <count> <animal> <noise>`

What is the output for the following code, if executed as

`./a.out 2 pig oink`

```
#include<stdio.h>
#include<string.h>

int main( int argc, char *argv[] ) {
    int count = atoi( argv[___] );
    int i;

    printf("Argc is %d.\n", argc);

    printf("Old McDonald had a farm.\n");

    for( i=0; i < count; i++ ) {
        printf("E-I ");
    }
    printf("O\n");

    printf("And on that farm he had a %s.\n", argv[___]);

    for( i=0; i < count; i++ ) {
        printf("E-I ");
    }
    printf("O\n");

    printf("With a %s-%s here.\n", argv[___], argv[___]);
    printf("And a %s-%s there.\n", argv[___], argv[___]);
    return 0;
}
```

D. (4 points) Why is *gets* considered unsafe?

E. (3 points) What is the difference between what *scanf* and *gets* and *fgets* read in and store?