

CSCE 36103 Operating Systems – Homework 3

Due: February 26, 2025 at 3:05 pm; Total Points: 100

Assignments (see HW3-ProblemStatements.pdf for problems):

1. (50 points) 3.26

- Name your program as `string_reverse.c`
- Create a Makefile to compile your code to an executable as `string_reverse`
- Use `isupper()`, `islower()`, `toupper()`, `tolower()` to detect and convert characters
 - `#include <ctype.h>`
- The behavior of the executable should be as follows.

```
./string_reverse
```

Please type in a message:

```
Hi, This is George Washington!
```

```
parent write >Hi, This is George Washington!<
```

```
child read >Hi, This is George Washington!<
```

```
child write >hI, tHIS IS gEORGE wASHINGTON!<
```

```
parent read >hI, tHIS IS gEORGE wASHINGTON!<
```

2. (50 points) 3.27

- Name your program as `filecopy.c`
- Create a Makefile to compile your code to an executable as `filecopy`
- The behavior of the executable should be as follows.

```
./filecopy filecopy.c filecopy.c.copy
```

Submission:

1. Make sure that your code runs on turning. We ONLY use turing to test code.
2. `zip -r hw3_<your last name>_<your first name>.zip 3.26 3.27`
 - 3.26 and 3.27 are folders containing the respective c file and the Makefile.
 - For example, for name **Jane Doe**, then the tar file is `hw3_Doe_Jane.zip`
3. Submit the zip file to Blackboard before the deadline. Late submission will not be graded.