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C06 Writeup

This assignment was an extension of our previous assignment. We had to use getopt to parse command line arguments.

Here are screenshots of some of the getopt parsing:

Make\_data\_2d:  
A screen shot of a computer program

Description automatically generated

Read\_data\_2d:

A computer screen shot of a program code

Description automatically generated

Mul\_data\_2d:

A computer screen shot of a program code

Description automatically generated

All of the parse functions look almost identical to these.

Below are screenshots of the programs compiling on the ci and passing valgrind:

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A computer screen with white text

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

This assignment was not too hard to implement. The biggest struggle for me was figuring out why the program would not compile on the ci, even though I was including unistd.h. After some research, I found that I either had to include getopt.h as well, or change one of my flags from

-st=c99 to -std=gnu99. I chose to change the flag, as it required me only editing the Makefile, but I did test changing the flag and including getopt.h at the same time, which also worked.