

Computer Science 312
Principles of Programming Languages
Fall 2024
Assignment 2

Due: Monday, 10/7/24 11:59 p.m.

For this project, you will write a program in C that implements the rendering method we discussed in class and produces a 2D image (resolution given in class), as shown below.

Your code must be modular and use functions, structures, and typedefs. We will discuss the algorithm and files in class. Your solution should consist of four files with data types and functions, as discussed in class.

All work must be your own. Using any AI, such as ChatGPT, is not allowed and will result in academic integrity charges.

The program should be compiled with the command: `gcc file1.c file2.c -lm -o rt`

The program can be executed with the command: `./rt > img.ppm`

Your final image should appear as follows:

