

CSC 220 Object-Oriented Multimedia Programming, Fall 2020

Dr. Dale E. Parson, Assignment 5, interactive and automatic 2D maze construction.

This assignment is due via **D2L Dropbox Assignment 5** due by **11:59 PM on Thursday December 10. 10% penalty for each day it is late.**

The starting point code is in the page entitled **CSC220Fall2020Final5Maze.txt** linked to the course page. Copy & paste it into **Processing** and **Save As CSC220Fall2020Final5Maze**. Proceed according to the instructions embedded in **STUDENT** comments embedded in the code.

<https://faculty.kutztown.edu/parson/fall2020/CSC220Fall2020Final5Maze.txt>

Make sure to read the instructions on **MEDIAN** versus **MEAN** semester grading after you receive my Assignment 4 grade report. Let me know via email if you plan to skip turning in Assignment 5. This **MEDIAN** option applies only to students who have turned in Assignments 1 through 4 and are satisfied taking the **MEDIAN** grade reported in the Assignment 4 grade report.

<https://faculty.kutztown.edu/parson/fall2020/MeanMedianFall2020.txt>

Save your sketch as **CSC220Fall2020Final5Maze**.

Make sure to turn in your excavator image file along with the **CSC220Fall2020Final5Maze.pde** file, along with any optional files it may load. Turn them in to D2L as usual.

I will test for the following conditions:

1. Neither arrow-driven manual maze construction nor automated maze construction can penetrate the left open space after tunneling into the maze. They can penetrate the right open space. That is how to complete the maze through the area.
2. Neither arrow-driven manual maze construction nor automated maze construction can penetrate the upper or lower open spaces after tunneling into the maze.
3. Neither arrow-driven manual maze construction nor automated maze construction can go fully off display.
4. The arrow-driven manual maze construction is disabled during automated tunnel construction.
5. Hitting the 'a' key during automated tunnel construction does not start new tunnel construction.
6. No diagonal lines.
7. Automated maze construction does not hang.
8. The sketch does not crash.
9. You have completed all **STUDENT** steps specified in code comments.

See the next page for screen shots.

