

Project Update Report

Project: Maze Solver

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Course: CSE 115

Week 1(Sep 21-Sep 27)

The classes just started this week, and I got told about the group project on the first class. So, I looked for other people to form a group and started with learning coding and C programming from the basics with the help of YouTube videos.

Videos that I watched:

<https://youtu.be/xND0t1pr3KY>

<https://youtu.be/Ps8jOj7diA0>

<https://youtu.be/jTSvthW34GU>

Week 2(Sep 28-Oct 04)

This week, I found a group of three people and joined them on the 3rd class. As all of us were new to coding, I recommended others to look into the details of the topics. Then later that week, we added the final member of our group. As for the project, we still hadn't decided on the topic we were going to do. So, I continued to watch the videos and learnt about variables and basic loops. I also made a Mad Libs game and a Shopping Cart program in Visual Studio by following the videos.

Week 3(Oct 05-Oct 11)

With a vote, we picked the maze solver as the group project. I started to look into how to start with group projects on google. I made a GitHub file for the project and looked into other people's projects that were maze related. We divided into two subgroups that would do a specific part of the project. I picked Algorithm and Testing group as it intrigued me the most. As the quizzes were starting on other courses, I couldn't dive much further into the topics.

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Week 4(Oct 12-Oct 18)

My goal this week was to complete a scan of the maze structure. I worked on loops and tested loops and nested loops on various programs as well as started on learning array. I used nested loops to tested grid values after learning the basics of array and how it works. After a lot of errors, I was able to scan the maze by the end of the week.

Resources I used:

<https://youtu.be/KDQXUysHLL8>

https://youtu.be/ZLc_OpzND2c

https://www.w3schools.com/c/c_for_loop_nested.php

Week 5(Oct 19-Oct 25)

The goal this week for me was to learn more about 2d array and start learning functions. I figured out how an array can do multiple test cases. I created basic functions that use loops and statements to test the path of the grid.

Week 6(Oct 26-Nov 01)

This week I learned about algorithm and the difference between different algorithms. By using google I learned that Depth First Search was probably the best one to use in most cases. So, I watched some videos to learn more on the topic. I built a basic algorithm that reads each cell and checks if it is open or not. And as quizzes and exams were coming up, I wasn't able to progress much further than that.

Resources I used:

<https://youtu.be/2NMtS1ecb3o>

<https://youtu.be/yRWybIkHL98>

<https://youtu.be/Gaq10GBIRJA>