**Assignment 3 – ITC 322**

**Discussion:**

I eventually did learn a little bit about Dijkstra's algorithm and implemented successfully. Though not correctly as some paths make the system loop. I believe allowedVertices is similar to the vertices visited Boolean array.

I read the maze in twice due to complicated constructing with skipping and such. This could bad programming and if time permitting, would of improved and optimised etc.

The teaching of the program to map between the maze position and the graph position was increasingly hard, though persisted, It just took time.

Printing the maze was a little easier and somewhat fun seeing “V”s all over the place.

I did really want to implement a GUI for this with some animation however I have badly managed my time unfortunately. However since was going to be late back by an hour anyway, I did add some extra features of counting stars and being able to re-do a path many time with different starts and finishes.

Probably should of printed a “before” maze along with an after maze, so I may get marked down but it’s getting late. Also, I think maze 2 loops.

Overall, I feel really disappointed in myself about this assignment but marks don’t really matter and I’ll see what I run into next.

Carry on and thanks for the ride.

**How to run (eclipse):**

1. Open **Eclipse** IDE for Java EE Developers
2. Open the “**file**” menu
3. Click “**Import**”
4. Expand “**General**”
5. Double click “**Existing projects into workspace**”
6. Browse for the **root directory** (the one with .project files etc.)
7. Import “**ITC322\_assign2**”
8. **Tick** the box
9. Click **Finish**
10. **Select the project** on the left side
11. Click **Run** (top toolbar) > click **Run**
12. Choose an options presented by the program to **select polynomial**

**Java Documents:**

The java docs were written into the code and generated using the Java Development Toolkit’s JavaDoc.exe. The generated html files reside in “**ITC322\_assign3\doc**” and can be opened by accessing “**index.html**” with your preferred web browser.

A screenshot of the program output is located at the bottom of this document.





