CS-UY 4513 Software Engineering (DP I)

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Exercise One: I2E Creative Idea

When was the last time you had a creative idea?

The last time I had a creative idea was last semester, approximately 2-3 months ago.

What was it?

I created a C++ program to solve a maze. The algorithm was designed as a breadth and depth-first search. The solving speed was optimized by identifying dead ends, avoiding them, and securing a valid path before writing (generating) the solution into file. The problem was to be solved three times differently using a vector, stack, and queue for their respective solving speeds (breadth was better for stack while depth was better for queue).

What motivates you to be creative?

When a task needs to be done, and a proper solution cannot be thought of immediately, a hotfix can be implemented in its stead. Whether it be recycling old code and modifying it, or using different data structures, there are many different techniques to solve a problem after thorough analysis. In this case, I created the maze program for a 1% grade boost; incentives can put me to work.