Maze

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30-03-2021

Problem Statement

- A person placed at (0, 0) in a square matrix of order N*N, has to reach the destination at (n-1, n-1)
- Find a possible path that the person can take to reach from source to destination
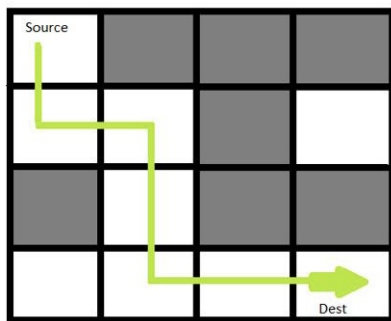
Problem Statement

Figure: Maze Example

Approach

- Start from the source
- Move in a direction where the path is not blocked (not 0)
- Reach the destination within the time limit to win the game

Statistics

- Lines of Code - 203
- Number of functions - 12

Tools

- OS - Windows 10
- Programming language (Python Version 3.8.1)
- Libraries - numpy, pygame
- Modules - random, mixer, sys

Learnings

- Backtracking
- Generating random matrices
- Embedding Audio
- Usage of pygame
- Implementing timer
- Working on GIT and Latex

Challenges

- Icon movement
- Path color generation
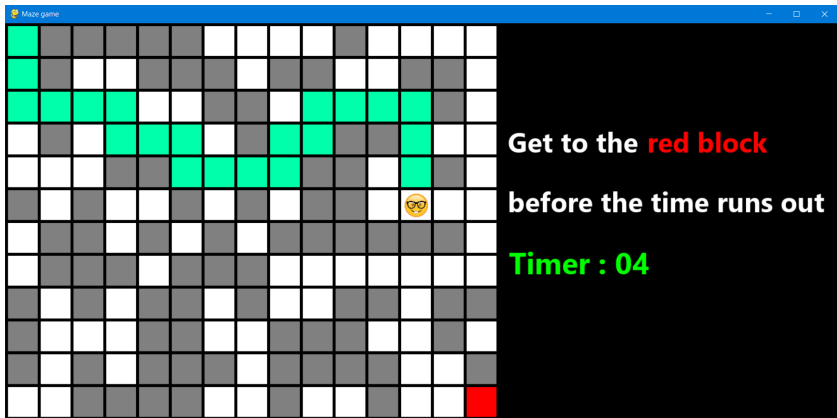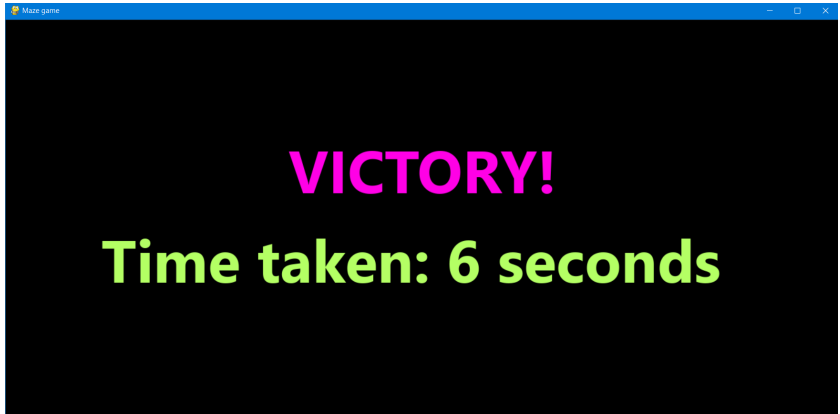- Exiting game window
- GIT - pushing files to gitlab

GIT Repo

`https://gitlab.com/19wh1a0507/maze`

Demo

Demo

THANK YOU