

University of Central Punjab Faculty of Information Technology

PF Project

Maze Runner

Project:

You are required to create a program that provides near-complete functionality over the Maze - Runner Game. Users should be given a simple and smooth work flow that implements following details:

Front end:

- User can enter Game mode personally or though files of their choosing
- User can get output on console or through files of their choosing
- Program should not end until users finish their game or wishes to end their task.
- User can enter in any Game Mode (Easy, Medium, Hard).
- User can Resume or Restart the game.

Functional Requirements:

- Regrow (Read data from file by using regrowing technique)
- Copy (Copy previous data into new and regrow array)
- Read (After reading the file Print pattern of game using file numbers)
- Moves (code for command to play game like press __ buttons for UP, LEFT)
- Valid Command (code to check whether the command that user enters is valid)
- Ascending (Code to sort the score in ascending order)
- Print (This function will print the pattern of the game)

Back end:

- Use separate function for every task listed above that is controlled by menu function which guides users through the various options
- Use separate functions for helping tasks such as file input/output

- Handle any and all sanity checks such as "size < 1"
- In case there are any operations the program cannot perform, show a proper error message on screen to user to clearly state what is wrong with the input
- Code should be thoroughly commented with appropriate details
- There should be no memory leakage at all throughout the program
- All code must be 100% generic

Console:

Sample Output:



C:\Users\WAQAS\Desktop\Project1\x64\Debug\Project1.exe
ENter Your Name WIth .txt Extension:
Waqas.txt

As you can see after playing game by using UP DOWN RIGH LEFT Keys you can reach at the end and from where you passed (1) had showed there.