HACETTEPE UNIVERSITY

DEPARTMENT OF COMPUTER ENGINEERING BBM104

Name : Mehmet Taha

Surname : Usta

Number : 21527472

E~mail : b21527472@cs.hacettepe.edu.tr

Subject : Finds a solution path of the given maze

Programming Language : C

1.Aim

Using recursion to solve mazes in C for learn some date structures.

2. Software Usage

I used CodeBlocks and c90 compiler for encode and compile. I used notepad++ for protect codes. I used Cmd for test on Windows. I used Opera web browser for research

3. Problem solving

First of all, the code reads the maze.txt file. matrix is defined. Then the line width of the read file is found .using malloc for allocate space in the matrix . Fead the input file again and fill the matrix. Find the required coordinates from the first line for the starting point(S). then the recursion function starts. Then the recursion function starts at the determined starting point. the recursion function controls x,y outside maze, x,y is goal(E), key, door, open positions, mark(#), find paths, unmark(X).İf path is wrong,path will return0, if path is true,path will return1