**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**“Jnana Sangama”,** Belgaum-590018.

A picture containing text, room, gambling house, scene

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Computer Graphics Mini Project On

**“MAZE GAME”**

**Submitted in partial fulfillment for the requirements 0f the VI Semester degree of**

## BACHELOR OF ENGINEERING

## IN

# COMPUTER SCIENCE AND ENGINEERING

## For The Academic Year

## 2019-20

**By**

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**ACKNOWLEDGEMENT**

Hereby I am submitting the CG mini project report on **“Maze Game”**, as per the scheme of Visvesvaraya Technological University, Belgaum.

In this connection, I would like to express my deep sense of gratitude to my beloved institution Don Bosco Institute of Engineering and, I like to express my sincere gratitude and indebtedness to **Dr. Hemadri Naidu T, Principal, DBIT, Bangalore.**

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**Sandesh Tiwari S (1DB18CS118)**

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**DEPARTMENT OF COMPUTER SCINECE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the mini project report entitled **“Maze Game”** is a bonafide work carried out by **Sandesh Tiwari S (1DB18CS118)** in partial fulfillment of award of Degree of **Bachelor of Engineering in Computer Science and Engineering** of Visvesvaraya Technological University, Belagavi, during the academic year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated. The mini project has been approved as it satisfies the academic requirements associated with the degree mentioned.

**Signature of Guide Signature of HOD**

**………………… ………………….**

**Revathi K M Prof. B S Umashankar**

Asst Professor Head of Dept.,

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**DECLARATION**

I, **Sandesh Tiwari S**, student of sixth semester B.E, Department of Computer Science and Engineering, Don Bosco Institute of Technology, Kumbalagodu, Bangalore, declare that the mini project work entitled **“Maze Game”** has been carried out by me and submitted in partial fulfillment of the course requirements for the award of degree in **Bachelor of Engineering** in **Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the academic year **2020-21**. The matter embodied in this report has not been submitted to any other university or institution for the award of any other degree or diploma.

**Place: Bangalore Sandesh Tiwari S**

**Date: 1DB18CS118**

**ABSTRACT**

The aim of the mini project is to implement the path finding game. The Path finding game containing a rectangular maze of any shape and size in which the horizontal and vertical lines represent the walls of the maze. Path finding game can be made difficult or easy, that is dependent upon the maze. Maze can be implemented as in 2D, 3D or more higher dimensions. This game is very popular as puzzle solving. Hence it can be used as an effecting tool for logical reasoning and mental aptitude.

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**CHAPTER 1**

**INTRODUCTION**

OpenGL is strictly defined as “a software interface to graphics hardware”. In essence, it is a 3D graphics and modeling library that is highly portable and very fast. Using OpenGL, you can create elegant and beautiful 3D graphics with exceptional visual quality. The greatest advantage to using OpenGL is that it’s order of magnitude is faster than a ray tracer or software rendering engine.

Initially, it’s algorithms are carefully developed and optimized by Silicon Graphics, Inc. (SGI), an acknowledged world leader in computer graphics and animation. Over time, OpenGL has evolved, as other vendors have contributed their expertise and intellectual property to develop high-performance implementations of their own.

**1.1 WORKING**

Working of OpenGL can be understood in two perspectives. They are:

1. Hardware Implementation.
2. Generic or Software Implementation.

**1.2 PIPELINE ARCHITECTURE**

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**Fig. 1.2.1 Pipeline Architecture**

The word pipeline is used to describe a process that can take two or more distinct stages or

steps. The above figure shows a simplified version of the OpenGL pipeline. As an application makes OpenGL API function call, the commands are placed in a command buffer. This buffer eventually fills with commands, vertex data, texture data, and so on. When the buffer is flushed, either programmatically or by the driver’s design, the commands and data are passed to the next stage in the pipeline.

**CHAPTER 2**

**OBJECTIVES**

The project title is “MAZE GAME”. What this means is that we are building a maze of any shape and size and search for a path through it. So, our goal is to create a Perfect Maze. More specifically, the maze we are building is a 2-Dimensional of fixed shape and size, in which the horizontal and vertical walls are connected in such a way, so that the point can move from given starting point to the ending point through the spaces formed by connecting walls, but point should never cross the wall.

**WORKING**

The main working of maze game is to find out the path from given place to another place by using the movement of point. We use the special key button for the movement of point. The left key button is used to movement of point along the X-axis as the value decreases, The right key button is used to movement of point along the X-axis as the value increases, The up-key button is used to movement of point along the y-axis as the value increases, the down key button is used to movement of point along the y-axis as the value decreases. There is also be given the time limitation, so it is necessary to find out the path within a given time interval.

**LITERATURE SURVEY**

I found the code of the other games that were coded using OpenGL library like Tetris, chess. I studied these codes thoroughly and got the following conclusions:

* Using OpenGL library, we can create various graphics related structure.
* Different functions defined in the OpenGL can be used to give different colors and textures to the ghost and Pacman.
* Glut (Toolkit of OpenGL library) can be used to create window, translate and rotate the matrix of the object, to track the position of mouse, to show the render screen etc.

Example:

* To create the window Function used: glutCreateWindow ("window name")
* To define the position of window Function used: glutInitWindowposition (int x, int y) X and Y are the co-ordinates of top left part of window in pixel.
* Define the size of window Function used: glutInitWindowsize (int x, int y) x and y are the width and height of the window.

Likewise, many user-defined functions are used to manipulate the game flow. The works are commented in the source code. In this way I gathered most of my knowledge from the previously made similar projects and got familiar with Open GL library and its toolkit.

**CHAPTER 3**

**OVERVIEW**

**3.1 COMPUTER GRAPHICS**

Computer Graphics is concerned with all aspects of producing pictures or images. The term computer graphics includes almost everything on computer that is not text or sound. Today nearly all computers use some graphics and users expect to control their computer through icons and pictures rather than just by typing.

The term Computer Graphics has several meanings:

* The representation and manipulation of pictorial data by a computer.
* The various technologies used to create and manipulate such pictorial data.
* The images so produced, and
* The sub-field of computer science which studies methods for digitally synthesizing and manipulating visual content.

Today computers and computer-generated images touch many aspects of our daily life. Computer imagery is found on television, in newspapers, in weather reports, and during surgical procedures. A well-constructed graph can present complex statistics in a form that is easier to understand and interpret. Such graphs are used to illustrate papers, reports, theses, and other presentation material. A range of tools and facilities are available to enable users to visualize their data, and computer graphics are used in many disciplines.

**3.2 OPENGL OVERVIEW**

OpenGL (Open Graphics Library) is a standard specification for writing applications that produce 2D and 3D computer graphics. That means you provide the data in an OpenGL-useable form and OpenGL will show this data on the screen (render it). It is developed by many companies, and it is free to use. You can develop OpenGL applications without licensing. OpenGL is a hardware and system-independent interface. An OpenGL-application will work on every platform if there is an installed implementation. Because it is system independent, there are no functions to create windows etc., but there are helper functions for each platform. A very useful thing is GLUT. GLUT is a complete API written by Mark Kilgard which lets you create windows and handle the messages. It exists for several platforms, that means that a program which uses GLUT can be compiled on many platforms without (or at least with very few) changes in the code.

OpenGL is a state machine. You put it into various states (or modes) that then remain in effect until you change them. For example, the current color is a state variable. You can set the current color to white, red or any color and thereafter every object is drawn with that color until you set the current color to something else.

The current color is only one of many state variables that OpenGL maintains. Other control such things as the current viewing and projection transformation line and polygon stipple patterns, polygon drawing models, pixel-packing conventions, positions and characteristics of lights, and material properties of the objects being drawn.

**CHAPTER 4**

**PROPOSED SYSTEM**

In the proposed system, OpenGL is a graphic software system designed as a streamlined, hardware-independent interface to be implemented on many different hardware platforms. To achieve these qualities, no commands for performing windowing tasks or obtaining user input are included in OpenGL; instead, we must work through whatever windowing system controls the hardware you’re using.

OpenGL doesn’t provide high-level commands for describing models of three-dimensional objects. Such commands might allow you to specify relatively complicated shapes such as automobiles, parts of the body, airplanes, or molecules. With OpenGL, you must build up your desired model from a small set of geometric primitives – points, lines, and polygons.

**CHAPTER 5**

**ANALYSIS**

**5.1 SOFTWARE REQUIREMENTS**

* **Operating System:** Windows 10
* **Compiler Used:** Visual Studio 2010
* **Language Used:** C++ language
* **Editor:** Visual C++

**5.2 HARDWARE REQUIREMENTS**

* **Main processor**: Intel i5
* **Processor Speed:** 1300 MHz
* **RAM Size:** 8 GB DDR4
* **Keyboard:** Standard qwerty serial or PS/2 keyboard
* **Mouse:** Standard serial or PS/2 mouse
* **Compatibility:** AT/T Compatible
* **Cache memory:** 2 MB

**CHAPTER 6**

**SYSTEM DESIGN**

**Design specification of Maze Game**

* Black opaque background.
* Design of the MAZE within the window screen.
* Position of time element.
* Design the functions required to do the needed tasks.
* Determine the processing necessary to perform the task.

The design of Maze Game involves generating blocks for the maze and a path through which destination can be reached by the user. The movement of the user is facilitated by the four arrow keys in the keyboard. Using those keys, the user can move in any direction. These procedures are initiated by the keyboard function. The game also contains the implementation of a timer which runs for a specific time.

The functions used in our project are:

* main function
* init
* my idle
* main menu
* my display

**Chapter 7**

**IMPLEMENTATION**

**7.1 HARDWARE IMPLEMENTATION**

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**Fig. 7.1.1 Hardware Implementation**

A hardware implementation of OpenGL usually takes the form of a graphics card driver. Fig. 7.1.1, shows its relationship to the application. Note that OpenGL API calls are passed to a hardware driver. This driver does not pass its output to the Windows GDI for display The driver interfaces directly with the graphics display hardware.

**7.2 SOFTWARE IMPLEMENTATION**

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**Fig. 7.2.1 Software Implementation**

Fig. 7.2.1, shows the typical place that OpenGL and a generic implementation occupy when a Windows application is running. The typical program calls many functions, some which the programmer creates and some of which are provided by the operating system or the programming language’s runtime library. Windows applications wanting to create output onscreen usually call a Windows API called the graphics device interface (GDI). The GDI contains methods that allow you to write text in a window, draw simple 2D lines, and so on.

The OpenGL provides very powerful translation, rotation and scaling facilities which relive the programmers by allowing them to concentrate on their job rather than focusing on how to implement these operations. OpenGL also provides viewing and modelling transformations. Given below is our implementation code for Maze Game:

#include<stdio.h>

#include<stdlib.h>

#include<GL/glut.h>

#include<math.h>

#include<string.h>

#include<time.h>

int x,y;

int i,count;

char t[2];

float px=0.0,py=175.0;

int flag, df=10;

clock\_t start,end;

void point()

{

glColor3f(0.0,0.0,1.0);

glBegin(GL\_POINTS);

glVertex2f(px,py);

glEnd();

}

void point1()

{

glColor3f(.0,1.0,0.0);

glBegin(GL\_POINTS);

glVertex2f(0.0,175.0);

glEnd();

}

void point2()

{

glColor3f(1.0,0.0,.0);

glBegin(GL\_POINTS);

glVertex2f(0.0,165.0);

glEnd();

}

void output(int x, int y, char \*string)

{

int len, i;

glRasterPos2f(x,y);

len=(int) strlen(string);

for (i = 0; i < len; i++)

{

glutBitmapCharacter(GLUT\_BITMAP\_TIMES\_ROMAN\_24,string[i]);

}

}

void drawstring(int x, int y, char \*string,void \*font)

{

int len, i;

glRasterPos2f(x,y);

len=(int) strlen(string);

for (i = 0; i < len; i++)

{

glutBitmapCharacter(font,string[i]);

}

}

void frontscreen(void)

{

glClear(GL\_COLOR\_BUFFER\_BIT);

glLoadIdentity();

glColor3f(1,1,1);

drawstring(120,5,"Press ENTER --> next screen",GLUT\_BITMAP\_HELVETICA\_18);

drawstring(-45,5,"Maximize window for better view",GLUT\_BITMAP\_HELVETICA\_12);

glColor3f(1,1,1);

output(25,160,"DON BOSCO INSTITUTE OF TECHNOLOGY");

glColor3f(1,1,1);

output(4.0,150,"DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING");

glColor3f(1,0,1);

output(60,130,"A Mini Project On:");

glColor3f(0,1,0.5);

output(65,120,"\"MAZE GAME\"");

glColor3f(1,0,1);

output(40,100,"By:");

glBegin(GL\_LINES);

glVertex2f(40,98);

glVertex2f(50,98);

glEnd();

glColor3f(1,0,0);

output(40,90,"SANDESH TIWARI S");

output(40,80,"");

glColor3f(1,0,1);

output(40,60,"Under the Guidence of:");

glBegin(GL\_LINES);

glVertex2f(40,58);

glVertex2f(105,58);

glEnd();

glColor3f(1,0,0);

output(40,50,"");

glColor3f(1,0,0);

drawstring(72,50,"(Asst. Prof.)",GLUT\_BITMAP\_HELVETICA\_12);

glColor3f(1,0,0);

output(70,40,"Revathi K M, Dept. of CSE");

glFlush();

}

void winscreen()

{

glClear(GL\_COLOR\_BUFFER\_BIT);

glLoadIdentity();

glColor3f(0.0,1.0,0.0);

output(55,120,"CONGRATS!!!");

glColor3f(1.0,0.0,1.0);

output(15,100,"YOU HAVE SUCCEEDED IN FINDING OUT THE PATH");

output(35,60,"\* PRESS ESC TO GO TO MAIN MENU");

output(35,45,"\* PRESS 1 TO RESTART THE GAME");

glFlush();

}

void startscreen()

{

glClear(GL\_COLOR\_BUFFER\_BIT);

glColor3f(0.0,1.0,0.0);

output(25,140,"WELCOME TO THE MAZE GAME OF FINDING THE PATH");

output(50,100,"1.NEW GAME");

output(50,80,"2.INSTRUCTIONS");

output(50,60,"3.QUIT");

glFlush();

}

void instructions()

{

glClear(GL\_COLOR\_BUFFER\_BIT);

glColor3f(1.0,1.0,0.0);

output(45,140,"INSTRUCTIONS:");

glBegin(GL\_LINES);

glVertex2f(45,138);

glVertex2f(95,138);

glEnd();

glColor3f(0,1,0);

output(-20,120,"\* TO MOVE THE POINT USE ARROW KEYS");

output(-20,100,"\* FIND THE WAY TO MOVE THROUGH THE MAZE AND GET TO DESTINATION");

output(-20,80,"\* GREEN COLOURED POINT INDICATE THE POINT FROM WHERE YOU HAVE TO START");

output(-20,60,"\* RED COLOURED POINT INDICATE THE POINT WHERE YOU HAVE TO REACH");

output(-20,40,"\* YOU WILL HAVE TO HURRY AS YOU HAVE LIMITED TIME (1 minute)");

output(-20,20,"\* PRESS ESC TO GO TO MAIN MENU");

glFlush();

}

void timeover()

{

glClear(GL\_COLOR\_BUFFER\_BIT);

glColor3f(1.0,0,0);

output(70,110,"TIMEOVER");

glColor3f(0,1,0);

output(50,100,"YOU HAVE LOST THE GAME");

output(50,90,"BETTER LUCK NEXT TIME");

output(40,40,"\* PRESS ESC TO GO TO MAIN MENU");

output(40,30,"\* PRESS 1 TO RESTART THE GAME");

glFlush();

}

void idle()

{

if(df==1)

{

end=clock();

count=(end-start)/CLOCKS\_PER\_SEC;

if(count==60)

{

df=4;

}

else

if((count<60) && ((px>=0 && px<=4) && (py>=162 && py<=168)))

{

df=5;

}

}

glutPostRedisplay();

}

void wall(GLfloat x1,GLfloat y1,GLfloat x2,GLfloat y2,GLfloat x3,GLfloat y3,GLfloat x4,GLfloat y4)

{

glBegin(GL\_POLYGON);

glVertex3f(x1,y1,0);

glVertex3f(x2,y2,0);

glVertex3f(x3,y3,0);

glVertex3f(x4,y4,0);

glEnd();

}

void SpecialKey(int key, int x, int y)

{

switch (key)

{

case GLUT\_KEY\_UP:

flag=0;

…………

break;

case GLUT\_KEY\_DOWN:

flag=0;

…………

glutPostRedisplay();

break;

}

}

void display()

{

glClear(GL\_COLOR\_BUFFER\_BIT);

if(df==10)

frontscreen();

else if(df==0)

startscreen();

else if(df==1)

{

output(-21,172,"---->");

output(-21,163,"<----");

glColor3f(0.0,0.0,1.0);

output(185,160,"TIME REMAINING : ");

drawstring(190,130,"HURRY UP",GLUT\_BITMAP\_HELVETICA\_18);

glColor3f(1,1,1);

drawstring(190,140,"Time is running out",GLUT\_BITMAP\_HELVETICA\_18);

sprintf(t,"%d",60-count);

output(250,160,t);

glutPostRedisplay();

point();

point1();

point2();

//line();

glColor3f(1.0,1.0,1.0);

………….

glutPostRedisplay();

}

else if(df==2)

instructions();

else if(df==3)

{

exit(1);

}

else if(df==4)

{

timeover();

}

else if(df==5)

{

winscreen();

}

glFlush();

}

void keyboard(unsigned char key,int x,int y)

{

if(df==10 && key==13)

df=0;

else if((df==0 || df==4 || df==5)&& key=='1')

{

df=1;

start=clock();

glutPostRedisplay();

}

else if(df==0 && key=='2')

df=2;

else if(df==0 && key=='3')

df=3;

else if(key==27)

{ df=0;

}

if((key=='0' || key=='1')&& (df==4||df==1))

{

px=0.0;

py=175.0;

}

glutPostRedisplay ();

}

void myinit()

{

glMatrixMode(GL\_PROJECTION);

glLoadIdentity();

glPointSize(18.0);

glMatrixMode(GL\_MODELVIEW);

glClearColor(0.0,0.0,0.0,0.0);

}

void myreshape(int w, int h)

{

glViewport(0,0,w,h);

glMatrixMode(GL\_PROJECTION);

glLoadIdentity();

if(w<=h)

gluOrtho2D(45.0,135.0,-2.0\*(GLfloat)h/(GLfloat)w,180.0\*(GLfloat)h/(GLfloat)w);

else

gluOrtho2D(-45.0\*(GLfloat)w/(GLfloat)h,135.0\*(GLfloat)w/(GLfloat)h,-2.0,180.0);

glMatrixMode(GL\_MODELVIEW);

glutPostRedisplay();

}

int main(int argc,char \*\*argv)

{

glutInit(&argc,argv);

glutInitDisplayMode(GLUT\_SINGLE|GLUT\_RGB);

glutInitWindowSize(600,600);

glutCreateWindow("Maze Game");

glutReshapeFunc(myreshape);

glutDisplayFunc(display);

glutIdleFunc(idle);

glutSpecialFunc(SpecialKey);

glutKeyboardFunc(keyboard);

myinit();

glutMainLoop();

return 0;

}

**CHAPTER 8**

**RESULTS AND SNAPSHOTS**

**8.1 RESULT**

The Maze Game is designed for entertainment purpose, and it serves its purpose very well. Users get exited playing this game and have the craze to win. The graphics in the game looks good and feels comfortable also. As the game is user interactive, it has a large scope for its operation.

**8.2 SNAPSHOTS**

**Text

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**Snapshot 1: Home Screen**

**Text

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**Snapshot 2: Main Screen![Text

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BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRTxDKYDMI28oNtL44B9M+tF7CukMoop0cbzSLHEjO7HCqoySfSgew2itH/hHtZ/6BV5/34b/AAo/4R7Wf+gVef8Afhv8Ky9tT/mX3mPt6P8AMvvRnUVYu9PvLHb9ttZrff8Ad82Mrn6ZqKGGW4mWKCNpJHOFRBkk+wq1KLV09DRTi48yegyitBtA1dFLPpd4qqMkmBuB+VZ9EZxl8LuKNSE/hdwooq1a6Xf3sZks7K4nQHBaOIsAfTiiUlFXbsOUoxV5OxVop0kbwyNHKjI6nDKwwQfSm1RW4UVatdLv72MyWdlcToDgtHEWAPpxUVza3FnN5V3DJBJjOyRSpx9DUqcW+VPUhVIOXKnqRUVZtdNvr5Ways57hVOGMUZbB/Ci602+sVVr2znt1Y4Uyxlcn8aXPDm5b6h7SHNy3VytRUtta3F5N5VpDJPJjOyNSxx9BVmbRNUt4Wln066jjQZZ3hYAD3OKHOCdm9QdSEXytq5RoqSC3muplhtonmkboiKST+Aq3JoWqwxtJLpt2iKMszQsAB69KHOEXZsJVIRdpNJlCitBdA1d1DJpd4ysMgiBuR+VL/wj2s/9Aq8/78N/hU+2p/zL7yPb0v5l96M6ipbm1uLObyruGSCTGdkilTj6GogMnA5NaJpq6NU01dBRWgPD+sEZGl3hH/XBv8KX/hHtZ/6BV5/34b/Cs/bU/wCZfeZe3o/zL70Z1FW7nStQs4w93ZXECMdoaSIqCfTmpR4f1gjI0u8I/wCuDf4U/a07X5l94/bUkr8y+8z6KdJG8MjRyoyOpwysMEH0q8ugau6hk0u8ZWGQRA3I/KnKcY6tlSqQiryaRn0Vaj0u/muJIIbK4eaL/WRrESyfUdqn/wCEe1n/AKBV5/34b/Ck6tNbyX3kutSW8l95nUVem0TVLeFpZ9Ouo40GWd4WAA9ziqNVGUZaxdy4zjNXi7hRVi00+8vt32K1muNn3vKjLY+uKs/8I9rP/QKvP+/Df4VLqQi7NoiVanF2lJL5mdRU11Z3NlII7y3lgcjIWRCpI9eahq001dGiakroKKuQaPqV1Cs1tp9zNG3R0iYg/iBUN1Z3NlII7y3lgcjIWRCpI9ealTg3yp6kqpBy5U1choqW2tbi8m8q0hknkxnZGpY4+gqzNomqW8LSz6ddRxoMs7wsAB7nFDnBOzeoOpCL5W1co0Vcj0bUpbcTxafcvCV3CRYmKkeucVTpqUZbMcZxl8LuFFXINH1K6hWa20+5mjbo6RMQfxApsel381xJBDZXDzRf6yNYiWT6jtS9pDXVaE+1p6+8tPMq0Vo/8I9rP/QKvP8Avw3+FH/CPaz/ANAq8/78N/hU+2p/zL7yfb0f5l96M6inzQy28zRTxtHIhwyOMEH3FOtrW4vJvKtIZJ5MZ2RqWOPoK05la/Q05klzX0IqKvTaJqlvC0s+nXUcaDLO8LAAe5xVWC3muplhtonmkboiKST+AqVOLV0xKpCS5k1Yjoq3c6TqNnD5t3Y3EEecb5ImUZ+pqK1s7m9kMdnbyzuBkrGhYgevFCnFrmT0BVIOPMmrENFWZNNvobgQS2c6TFdwjaMhiPXFJaafeX277FazXGz73lRlsfXFHPG176B7SFua6sV6K0f+Ee1n/oFXn/fhv8Kin0fUrWFprnT7mGNervEwA/EikqtNuykvvJVak3ZSX3lOiiitDUKKfFDLPJsgjaR8E7VGTgdaZRcV1ewUVNa2dzeyGOzt5Z3AyVjQsQPXirf/AAj2s/8AQKvP+/Df4VEqkIuzaREqtOLtKSXzM6irF3p95Y7fttrNb7/u+bGVz9M021s7m9kMdnbyzuBkrGhYgevFPnjbmvoPnjy819CGitH/AIR7Wf8AoFXn/fhv8KrXen3ljt+22s1vv+75sZXP0zUqpCTsmiY1qcnaMk/mV6KKntbG7vmZbK2luGUZYRIWwPwq20ldmkpKKu2QUVbudJ1Gzh827sbiCPON8kTKM/U1XhhluJligjaSRzhUQZJPsKSnFq6ehKnGS5k9BlFaDaBq6KWfS7xVUZJMDcD8qr2mn3l9u+xWs1xs+95UZbH1xS9pBq6aEqtNq6krepXoq3c6VqFnGHu7K4gRjtDSRFQT6c1KPD+sEZGl3hH/AFwb/Cl7Wna/MvvF7aklfmX3mfRTpI3hkaOVGR1OGVhgg+lT2um318rNZWc9wqnDGKMtg/hVOUUrt6FuUYrmb0K1FWbrTb6xVWvbOe3VjhTLGVyfxqaPQtVmjWSLTbt0YZVlhYgj16UvaQte6sT7Wmlzcyt6lCirS6XfvdNapZXDXCDLRCI7gPUip/8AhHtZ/wCgVef9+G/wpOrTW8l94nWpLeS+8zqKvyaFqsMbSS6bdoijLM0LAAevSmQaPqV1Cs1tp9zNG3R0iYg/iBR7Wna/MvvD21K1+ZW9SnRU11Z3NlII7y3lgcjIWRCpI9easx6Fqs0ayRabdujDKssLEEevSm6kErtjdWCXM5KxQoqSe2ntpzDcQvFKOqOpBH4VYn0fUraAzXFhcxRDq7xMAPxxT54q2u4/aQVrvfYp0U+WGWBlE0bRllDAMMZB6H6UyqvcpNPVBRRRQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAN3wdZWd/4gWDUbG5voTGxMNsPnJ7HqK7ldL8vwzcaTHIqWzXqoIHgX7SFKk7Mf3/TnpXmem6pe6ReC6024a3nClQ64zg9etbSeK0HhebTpLFHvJZ/O+1ljuzz83X73OPTFeRjMNXqVFKD00+Wu+un3anhZhhMRWqqcHp7unZp72emnlqxvjTT7LTdXi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FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFOEUhhMojbywdpfbwD6Zrb8H2NlqPiBYNTs7q8gMbExWoJckdDweldyuleX4ZuNIjdFtWvVQRPbr9qCFSdu3qX9Oc4rzsTjo0J8ltdPuZ5WLzKGGqKnbXT7n9+qPKaK6Lxpp1hpmrRQ6XZXlnEYQWS7UhicnnknisCCCW5nSGBGklkYKiKMlie1dlKrGrTVRaJ9zuo141qSqrRPuJFFJPKscMbSSMcKiLkn6CrbaLqiqWbTbwKBkkwNx+ldxqF/afD2zi07S7eC51OaISTXMwBktpD0AUg44NcjZ+KtasbwXMeoTSMM/JM5dDkYOVPBrlp4itXi50orl6Xe/wDkjjpYrEYiLqUYLl6Xfxeemy9TKMUixLI0bCNyQrleGx1wasQ6VqFzEJbexuZY26OkLMD+IFdD4p1+DXfDukMsVvBcRNKssMACgdPmwAMZrX+E13ctrl1btcSmFLRysZc7VORyB0qauKq08LKu42avp6OxFbG1qWDliHCzje6b7O25xf8AYmrf9Ay8/wDAd/8ACqTo8UjJIrI6nDKwwQa021/V4bwump3eUkyAZ2I4Ppmu58bWcWreAbDxC0P2a6UqJR5ATzmbGW47elOeKnRqQjUStJ2uu5VTGVKFWnCslabtdX0fT7zzyHStQuYhLb2NzLG3R0hZgfxAqT+xNW/6Bl5/4Dv/AIV2nwmu7ltcurdriUwpaOVjLnapyOQOlcfNrmrC4kA1O8xuP/Lw3r9aca9adedJJe7bv1uOOJrzxNShFL3bPr1v/kVLmxu7Pb9rtZoN33fNjK5+mamXRdUZQy6beFSMgiBuf0rT13xK+uaBpdvdyPLd2ZdXYr1U4289zxXUeFNQvH+GPiWV7udpIQojcyElOB0PaorYmtSoqcoq97fe7J/qRXxmIo0FUlFX5uVrXrKya/M4X+xNW/6Bl5/4Dv8A4VXks7mG4FvLbypM2MRshDHPTjrVuPxBq8UqSLqd2SjBhmdiOPbNXPFOvnXNbh1KKRxMLeNXcDYRIByRj3rpUq6moyStrrrudSniVUUZJWaeqvo+n3mXcade2kYe7s7iBCcBpImUE/iKrqpZgqgkk4AA616nbtbeIfh3p+jX07SarcJJNZtNIcO4cjBPc4zxXmVzbXGnXr29yjw3ELYZTwVIrLC4p13KMlaUW/mtrryMcFjXiHOE1aUW16pO115Er6PqcUbPJp12iKMszQMAB9cVTrqtT1O/fwLpJe+uWMs1wshMrHeMrweeRXK1tQqTqRbnbdrTydjow1SpUi3NLdrTydgqzBpl/dReZa2VxNHnG+OJmH5gV0fgvQLW8W61fWcpYWK7wW4SWTshb8qr6742v9WljFko0q2jHywWjbBk9SSMZrJ4ic6rpUle27ey8vN/kYyxVSdd0aEb8vxN7Ly83+RhyadewzJDNZ3Ecsn3EaJgzfQY5quRg4Ndv4T8c3MOo2tprRguLZQyLcXCgvDnndvIz+tV/COg2l9LfaxrGV0+xy6luElfPCFvyqHip0uZ1o2ta1tb3b2M5Y2pR53iIWUbWtrzXbVl57aHMwaZf3UXmWtlcTR5xvjiZh+YFMubO5s2Vbu3lgZhkCVCufzre13xtf6tLGLJRpVtGPlgtG2DJ6kkYzWl4d8WR38UWheJoIbq2mby/tk7YkgU8n5sZ6+9OVbEwh7SUF5pPVL8mOWIxdOn7WVNeaT1S/Jvy+44yGCW5lEVvE8sjdERSxP4CrL6PqcUbPJp12iKMszQMAB9cVe8QaVc+FvEc1tBJNGEOYJxlC6H+IYrrfH99dp4T8N7LqZfOtT5uJCPM+Vevr+NKeKlz0lTs1Pr8riqY2XtKKpWcanX5XPOKKK6zwXoFreLdavrOUsLFd4LcJLJ2Qt+VdVetGhTc5HZiMRDD0nUn/w76JHOQaZf3UXmWtlcTR5xvjiZh+YFMubO5s2Vbu3lgZhkCVCufzre13xtf6tLGLJRpVtGPlgtG2DJ6kkYzWl4d8WR38UWheJoIbq2mby/tk7YkgU8n5sZ6+9c0q2JhD2koLzSeqX5M5JYjF06ftZU15pPVL8m/L7jjIYJbmURW8TyyN0RFLE/gKsvo+pxRs8mnXaIoyzNAwAH1xV7xBpVz4W8RzW0Ek0YQ5gnGULof4hiut8f312nhPw3supl861Pm4kI8z5V6+v40p4qXPSVOzU+vyuKpjZe0oqlZxqdflc86iiknlWOGNpJGOFRFyT9BVibStQtojLcWNzFGvV3hZQPxIqvFLJBKssEjRyKcq6HBH0NdN4q1C8k0zRY5Lud0l09WkVpCQ53NyR3NdFSpONSMY2szqq1KkasIRSs/wDhzDTR9TljV49Ou3RhlWWBiCPrinHRNVAydMvMf9e7/wCFdz4Avrt/CfiTfdTN5NqPKzIT5fyt09Pwrj7DxLrFnqEFxHqNy7RuCFklZ1PsQTg1zQxFedSpCKXu+ut1c5IYrE1KtWnFL3Ld9bq5kEYODVxNH1OWNXj067dGGVZYGII+uK7n4oaVbJa6ZrNtCbQ3K+W1uYRGQQM5IHfmneAL67fwn4k33UzeTajysyE+X8rdPT8KyeYOWF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SFdxldqUdmt/8AgryZ1mm6JoFhcNd61rVpe28K7vs1qW3yn+7yB/OqnijxMusiCx0+H7NpVmMW0J5I9yfWueoqY4Ve0VSpJya2vsvl38yI4Ne1VapJya2vsvRLS/mFAGWAzjJ6ntRRXWdx6PYDSbf4eX2hyeINP+03MwkVgzbQOODx7V55cRCC4kiWVJVRiBIn3W9xUdFcmHw3sZSfM3zO/Tc4sLhPq8py5m+Z3d7b/L0Oh8L+Jl0YT2OoQ/adKvBi5hHBPuD61b1LRNAv7hbvRdatLK3mXd9mui2+I/3eAf51ydFEsKvaOpTk4t722fyfXzFLBr2rrU5OLe9tn6p6X8zu4ta0HwfZbdC/07WfLx9vB/druHIA9vcVw0srzTPLIcu7FmPqTTaKqjh40W5XvJ7t7/8ADeReHwsKDcrtye7e/wDwF5IsWNql5eJBLcxWqtnMsxO1friui8X29jMttdWer2d0YbaG3MURbcSowSMjpXK0VU6TlUjPmtbpoVUoOdWNRStbpodpoHiqG38H3en3kxW6tP3+nMQMI3THueT1rB0C2hutWSa71C3slhkWUtOSN/zZIGAeayaKiOFjDncHZyM44OEPaOm7Oe//AAPz9Wz0LxvBpXiXxI+oWfiLTo4miRNsjNnIHstU/E9rpR8P6fb6V4gtrhLCFt8RZg0jls8DGO9cTRWFPBOmoRU3aG2i9Oxz0sudJU4qo7Q2Vl2t27FvTIvO1KFftcVmQ24TTZ2qRyM4BrtvGo0fXLS0vYNbsZNRht9t025szEAY2jGPX0rz6itquG9pVjVUmnH06m9bCe1rQrKbTj2t13uejeHzpNh4H1fS7jX7AT6iFKYZsJx0PFcppWm2w1/bNq9nFFayq4mcttlAIPy8ViUVEMI4ObU373p6fkRTwLpuo1Ufv6vRb2S7dkbvi2C1/tu4vLPUba9S6meQCEnKAnIzke9aPgbX7OzuZNM8QOX0q5GCr8rG3Zs9R36VyNFXLCxnQ9jN38+vkXPBxqYb6vNt+fXTZ+qNnxddW974u1G4spFlt5JcxuvQjArGoorenBU4KC6Kx00aapU4010SX3HZQadp48Hy2DeINOWeW5S4ALNwAhGDx15rP8Ga+mga9m5djZXCmG5VQPmU8flzmudorn+qqUJwm7qXocv1JSp1KdSTkp+n4Gxrc8ep+JZEjuYxaq/kQSt91IgcL74Arr78aTcfDyx0OPxBp/2m2mMjMWbaRzwOPevOKKVTCKaglJrl1W25NbAqoqaU2uSzW2607HofgGXStFtdQlv9bska+tTEseW3IeevFc7/AMIxZ/8AQy6V/wB9P/8AE1z1FKOFlGpKpGbvK19F0+Qo4KcK06sajvK19F026HW6naaPp3gtLS01W2vr+a7WSTygcIoBHBIzjpUs+naefB8VgviDTmniuXuCAzcgoBgcdeK42in9VlZe+73v0/yH9SlZfvHe/N03+4ns7240+8jurOVopozlWU9K7nxfruh6r4NhfTWRL+4nSS6hxhiyqV3EdP8A9def0VdbCwq1IVHo4/j5M0r4OnWqwqt2cX06+T8i9ouqTaNrFvfW7lHicEkAE7e459s10+u2vh7xJdHVNK1SDTXnZjNb3hIOf7wwD1riqKKmHU6iqxbUlpp28x1sKqlVVoycZJWuuq7O51E/9meHNNZdP1BNRv7uFo5Hi/1cIz1U8HdwP1rl+vWiitKVL2ad3dvqa0aPsk7u7e7YUUUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)**

**Snapshot 3: Instructions Screen**

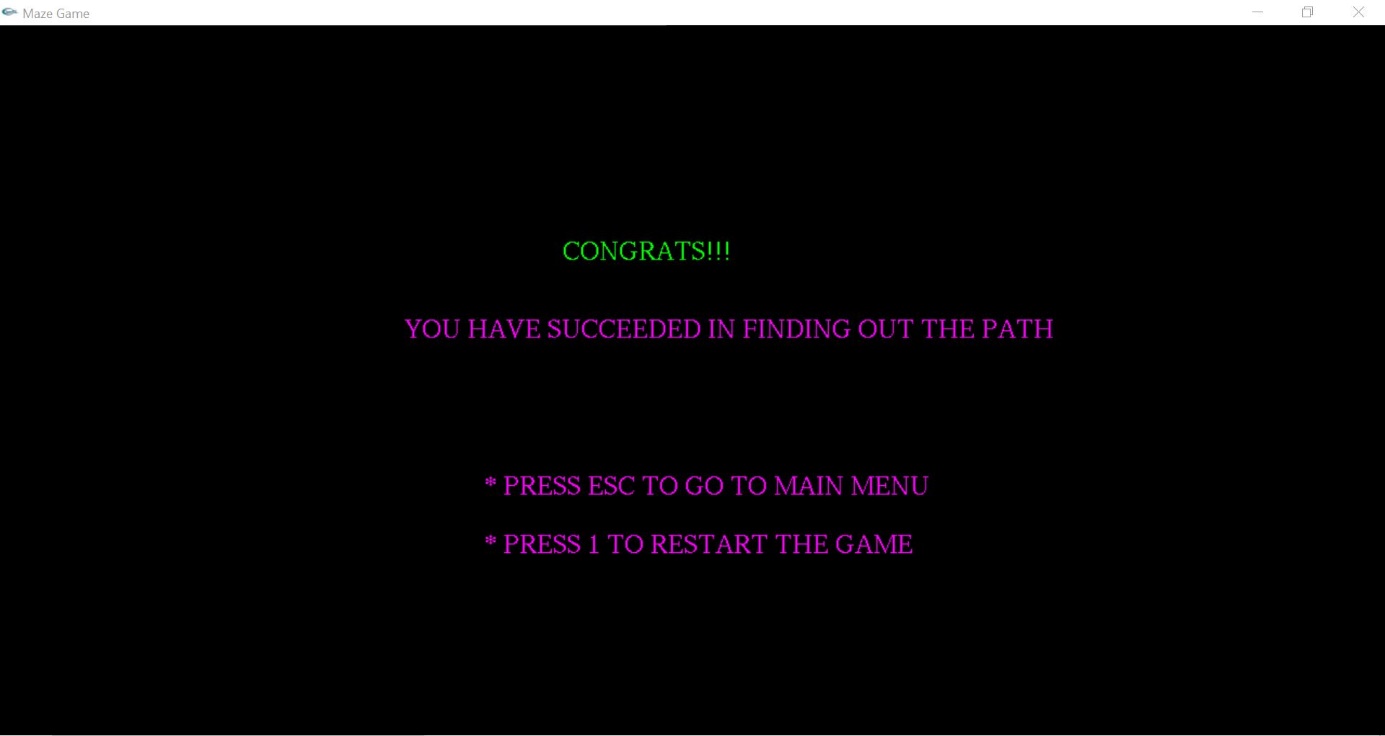
**Qr code

Description automatically generated with medium confidenceSnapshot 4: MAZE**

**Text

Description automatically generated**

**Snapshot 5: LOST THE GAME Screen**

****

**Snapshot 6: WON THE GAME Screen**

**CONCLUSION**

I started with a modest aim, with no prior experience in any programming projects such as this, but ended up in learning many things, fine tuning my programming skills, and getting into the real world of software development with an exposure to corporate environment. During the development of any software of significant utility, we are faced with the trade-off between speed of execution and amount of memory consumed. This is a simple interactive application. It is extremely user friendly and has the features, which makes simple graphics project. It is an open-source code, and no security feature has been included. The user is free to alter the code for future enhancement. Checking and verification of all possible types of the functions are taken care. Care was taken to avoid bugs. Bugs may be reported to creator as the need may be.

So, I conclude on the note that I am looking forward to developing such projects with an appetite to learn more in the field of computer science.

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**WEBSITES**

* http://www.opengl.org
* http://glprogramming.com/red
* <http://jerome.jouvie.free.fr/OpenGl>

**APPENDIX**

1. glLoadIdentity: replaces the current matrix with the identity matrix. It is semantically equivalent to calling glLoadMatrix with the identity matrix.
2. glEnable and glDisable enable and disable various capabilities. Use glIsEnabled or glGet to determine the current setting of any capability.
3. glBegin and glEnd delimit the vertices that define a primitive or a group of like primitives. glBegin accepts a single argument that specifies in which often ways the vertices are interpreted.
4. glFlush: Different GL implementations buffer commands in several different locations, including network buffers and the graphics accelerator itself. glFlush empties all these buffers, causing all issued commands to be executed as quickly as they are accepted by the actual rendering engine. Though this execution may not be completed in any particular time period, it does complete in finite time.
5. glVertex — set the coordinates of the vertices while rendering different primitives.
6. glClear: sets the bitplane area of the window to values previously selected by glClearColor, glClearIndex, glClearDepth,glClearStencil, and glClearAccum. Multiple color buffers can be cleared simultaneously by selecting more than one buffer at a time using glDrawBuffer.
7. glPointSize: to set the size of the points to be drawn.
8. glLineWidth: to set the width of the lines.
9. glShadeModel: GL primitives can have either flat or smooth shading. Smooth shading, the default, causes the computed colors of vertices to be interpolated as the primitive is rasterized, typically assigning different colors to each resulting pixel fragment. Flat shading selects the computed color of just one vertex and assigns it to all the pixel fragments generated by rasterizing a single primitive. In either case, the computed color of a vertex is the result of lighting if lighting is enabled, or it is the current color at the time the vertex was specified if lighting is disabled.
10. glTranslate — multiply the current matrix by a translation matrix.
11. glRotate — multiply the current matrix by a rotation matrix.
12. glPushMatrix and glPopMatrix— push and pop the current matrix stack.
13. glColor — set the current color.
14. glutAddMenuEntry - adds a menu entry to the bottom of the current menu.
15. glutSwapBuffers - swaps the buffers of the current window if double buffered.