The Mystery Maze



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1. Desciption & Story Writing

The mystery maze is a game in which the player finds himself trapped inside a maze amidst enemies and little bombs. He has to escape the maze but in order to do so he needs a key. He can only see the key when he has killed all his enemies or collected all the pills inside the maze. With each step, he faces danger, evading enemies and bombs. It's a thrilling adventure that tests his skills and strategic thinking. Can he find the key and make it out of the maze filled with mysteries? Only time will tell!

2. Game Characters Description

There are a total of 4 characters in the game:

1. The Player ([P])

The player can move left, right, up or down and can shoot towards left or right. The movement is controlled by arrow keys and shooting with Z and X keys , respectively.

2. Enemy1 ([1])

Enemyl moves up and down the maze guarding the left boundary.

3. Enemy2 ([2])

Enemy2 moves up and down the maze guarding the right boundary.

4. Enemy3 ([3])

Enemy3 moves left and right guarding the central area of the maze.

3. Game Objects Description

The game objects are described below:

- An Ordinary Pill (.) which increases score by 1.
- An Unusual Pill (o) which decreases player health by 5.
- A Bonus Pill (*) which increases player health by 5.
- A Key (\$) which increases score by 1000 and wins you the game.

4. Rules & Interactions

The rules of the game are as follows:

- The player has a total of 50 health points.
- There are 3 enemies in the game.
- Each enemy has 25 health points which totals to 75 enemy health points.
- Collect as many ordinary pills as you can.
- Each ordinary pill increases the score by 1.
- Try to avoid the unusual looking pills.
- Each unusual looking pill decreases the player health by 5.
- A bonus pill appears randomly in the maze.
- Collect the bonus pill to increase player health by 5.
- Do not get close to an enemy.
- Being close to an enemy decreases player health by 5.
- Avoid contact with an enemy.
- Contact with an enemy decreases player health completely thus making you lose the game.
- After an enemy is killed in a position, that specific position becomes a bomb.
- If you go to a bomb area, you will die and lose the game.
- The player can shoot left or right to kill enemies.
- Each hit with an enemy decreases enemy's health by 5 and increases score by 2.
- 5 hits to an enemy kils it.
- If the player health decreases to 0, you lose the game.
- If you collect all the pills or kill all enemies, a key (\$) appears in the maze.
- Collect the key to win the game and get out of the mystery maze.

5. Goal Of The Game

The goal of the game is for the player to find a key to escape the maze. Hecan do so by collecting pills or by killing the enemies.

6. Wireframes



Figure 1: Main Menu



Figure 2: Game Interface



Figure 3: Controls

Figure 4: Rules

```
The systemy mare is a game in which the player finds biaself trapped inside a maze amidst enemies and little bombs. He has to escape the maze but in order to do so he needs a key. He can only see the key when he has killed all his enemies or collected all the pills inside the maze with each step, he faces danger, evoding enemies and bombs. It's a thrilling adventure that tests his skills and strategic thinking. Can he find the key and make it out of the maze filled with mysteries?

Only time will tell!

This is the Story of the game.

Press Any Key to Continue..
```

Figure 5: Story

7. Data Structures

```
int px = 30, py = 1, e1x = 2, e1y = 1, e2x = 75, e2y = 21, e3x = 72, e3y = 16;
// Variables for player and enemy coordinates
                        // Variable for storing score
int score = 0:
int enemyHealth = 75; // Variable for storing enemies health
int e1 = 0, e2 = 0, e3 = 0; // Variables for counting number of hits to each enemy
int playerHealth = 50; // Variable for storing player health
int bx, by;
                // Variables for bonus pill coordinates
int kx, ky;
                // Variables for key coordinates
string direction1 = "down"; // Variable for enemy1 direction
string direction2 = "up";
                              // Variable for enemy2 direction
string direction3 = "left";
                             // Variable for enemy3 direction
string filename = "Coordinates.txt"; // Variable for storing coordinates file name
```

8. Function Prototypes

```
void maze();
char getCharAtxy(short int x, short int y);
void gotoxy(int x, int y);
void Enemy1(int &e1x, int &e1y);
void eraseEnemy1(int &e1x, int &e1y);
void Enemy2(int &e2x, int &e2y);
void eraseEnemy2(int &e2x, int &e2y);
void Enemy3(int &e3x, int &e3y);
void eraseEnemy3(int &e3x, int &e3y);
void moveEnemy1(string &direction1, int &e1x, int &e1y, int &e1);
string cdirection1(string &direction1, int &e1y);
void moveEnemy2(string &direction2, int &e2x, int &e2y, int &e2);
string cdirection2(string &direction2, int &e2y);
void moveEnemy3(string &direction3, int &e3x, int &e3y, int &e3);
string cdirection3(string &direction3, int &e3x);
void Player(int &px, int &py);
void erasePlayer(int &px, int &py);
void movePlayerLeft(int &px, int &py, int &score, int &bx, int &by, int
&playerHealth);
void movePlayerRight(int &px, int &py, int &score, int &bx, int &by, int
&playerHealth);
```

```
void movePlayerUp(int &px, int &py, int &score, int &bx, int &by, int
&playerHealth);
void movePlayerDown(int &px, int &py, int &score, int &bx, int &by, int
&playerHealth);
void playerHealthDecrement(int &playerHealth, int &px, int &py, int &e1x, int &e1y,
int &e2x, int &e2y, int &e3x, int &e3y);
void loadCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int
&e2x, int &e2y, int &e3x, int &e3y, int &score, int &playerHealth, int
&enemyHealth, int &e1, int &e2, int &e3);
void readCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int
&e2x, int &e2y, int &e3x, int &e3y, int &score, int &playerHealth, int
&enemyHealth, int &e1, int &e2, int &e3);
void gameLoop(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int
&e2y, int &e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &bx,
int &by, string &direction1, string &direction2, string &direction3, int &e1, int &e2,
int &e3, int &kx, int &ky);
string getField(string record, int field);
void printScore(int &score);
string setcolor(unsigned short color);
void moveFireRight(int &px, int &py, int &score, int &enemyHealth, int &e1, int
&e2, int &e3);
void moveFireLeft(int &px, int &py, int &score, int &enemyHealth, int &e1, int &e2,
int &e3):
void printFireRight(int &px, int &py);
void printFireLeft(int &px, int &py);
void eraseFire(int &px, int &py);
string controls();
void Header();
string rules();
void bounsPill();
void printEnemyHealth(int enemyHealth);
void printPlayerHealth(int playerHealth);
void printBonusPill(int &bx, int &by);
void printKey(int &kx, int &ky);
void printPlayerCoordinates(int &px, int &py);
void printBonusPillCoordinates(int &bx, int &by);
string mainMenu();
void clearScreen();
void clearHeader();
void wrongOption();
bool pillCheck();
bool keyCheck();
bool bonusCheck();
string about();
```

9. Complete Code

```
#include <iostream> // Library for input output functons
#include <windows.h> // Library for using getCharAtxy function
#include <conio.h> // Library for getch function
#include <ctime> // Library for srand function
#include <iomanip> // Library for setw function
#include <fstream> // Library for file handling
#include <stdlib.h> // Library for abort function
using namespace std;
```

// Function Prototypes

```
void maze();
char getCharAtxy(short int x, short int y);
void gotoxy(int x, int y);
void Enemy1(int &e1x, int &e1y);
void eraseEnemy1(int &e1x, int &e1y);
void Enemy2(int &e2x, int &e2y);
void eraseEnemy2(int &e2x, int &e2y);
void Enemy3(int &e3x, int &e3y);
void eraseEnemy3(int &e3x, int &e3y);
void moveEnemy1(string &direction1, int &e1x, int &e1y, int &e1);
string cdirection1(string &direction1, int &e1y);
void moveEnemy2(string &direction2, int &e2x, int &e2y, int &e2);
string cdirection2(string &direction2, int &e2y);
void moveEnemy3(string &direction3, int &e3x, int &e3y, int &e3);
string cdirection3(string &direction3, int &e3x);
void Player(int &px, int &py);
void erasePlayer(int &px, int &py);
void movePlayerLeft(int &px, int &py, int &score, int &bx, int &by, int &playerHealth);
void movePlayerRight(int &px, int &py, int &score, int &bx, int &by, int &playerHealth);
void movePlayerUp(int &px, int &py, int &score, int &bx, int &by, int &playerHealth);
void movePlayerDown(int &px, int &py, int &score, int &bx, int &by, int &playerHealth);
void playerHealthDecrement(int &playerHealth, int &px, int &py, int &e1x, int &e1y, int &e2x,
int &e2y, int &e3x, int &e3y);
void loadCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int
&e2y, int &e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &e1, int &e2,
void readCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int
&e2y, int &e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &e1, int &e2,
int &e3);
void gameLoop(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int &e2y, int
&e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &bx, int &by, string
&direction1, string &direction2, string &direction3, int &e1, int &e2, int &e3, int &kx, int
&ky);
string getField(string record, int field);
void printScore(int &score);
string setcolor(unsigned short color);
void moveFireRight(int &px, int &py, int &score, int &enemyHealth, int &e1, int &e2, int &e3);
void moveFireLeft(int &px, int &py, int &score, int &enemyHealth, int &e1, int &e2, int &e3);
```

```
void printFireRight(int &px, int &py);
void printFireLeft(int &px, int &py);
void eraseFire(int &px, int &py);
string controls();
void Header();
string rules();
void bounsPill();
void printEnemyHealth(int enemyHealth);
void printPlayerHealth(int playerHealth);
void printBonusPill(int &bx, int &by);
void printKey(int &kx, int &ky);
void printPlayerCoordinates(int &px, int &py);
void printBonusPillCoordinates(int &bx, int &by);
string mainMenu();
void clearScreen();
void clearHeader();
void wrongOption();
bool pillCheck();
bool keyCheck();
bool bonusCheck();
string about();
// Main Function
main()
    int px = 30, py = 1, e1x = 2, e1y = 1, e2x = 75, e2y = 21, e3x = 72, e3y = 16; //
Variables for player and enemy coordinates
   int score = 0;
for storing score
   int enemyHealth = 75;
for storing enemies health
   int e1 = 0, e2 = 0, e3 = 0;
Variables for counting number of hits to each enemy
   int playerHealth = 50;
                                                                                   // Variable
for storing player health
   int bx, by;
Variables for bonus pill coordinates
   int kx, ky;
Variables for key coordinates
   string direction1 = "down";
for enemy1 direction
   string direction2 = "up";
for enemy2 direction
   string direction3 = "left";
for enemy3 direction
   string filename = "Coordinates.txt";
for storing coordinates file name
 // While loop for running whole system
    system("cls"); // Clearing Screen
       string option = mainMenu(); // Storing option returned by user from main menu
        if (option == "1") // If option is '1'
```

```
// Resetting all coordinates, health, score and directions
    px = 30, py = 1, e1x = 2, e1y = 1, e2x = 75, e2y = 21, e3x = 72, e3y = 16;
    score = 0;
    enemyHealth = 75, e1 = 0, e2 = 0, e3 = 0;
    playerHealth = 50;
    direction1 = "down";
    direction2 = "up";
    direction3 = "left";

// Calling of gameLoop function to run the game
    gameLoop(filename, px, py, e1x, e1y, e2x, e2y, e3x, e3y, score, playerHealth,
enemyHealth, bx, by, direction1, direction2, direction3, e1, e2, e3, kx, ky);
```

```
// Printing controls
string control = controls();
cout << control << endl;
}
else if (option == "4") // If option is '4'
{
    // Clearing screen and printing header
    clearHeader();</pre>
```

```
// Function for running the whole game
void gameLoop(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int &e2y, int
&e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &bx, int &by, string
&direction1, string &direction2, string &direction3, int &e1, int &e2, int &e3, int &kx, int
                          // Taking any key and clearing screen
   clearScreen();
                          // Printing the maze
   maze();
   Enemy1(e1x, e1y);
                          // Printing enemy1
                          // Printing enemy2
   Enemy2(e2x, e2y);
   Enemy3(e3x, e3y);
                          // Printing enemy3
   Player(px, py);
                          // Printing player
   printBonusPill(bx, by); // Printing bonus pill
```

// While loop for running game

```
if (GetAsyncKeyState(VK_LEFT)) // If player presses left arrow key
           movePlayerLeft(px, py, score, bx, by, playerHealth);
       if (GetAsyncKeyState(VK_RIGHT)) // If player presses right arrow key
           movePlayerRight(px, py, score, bx, by, playerHealth);
       if (GetAsyncKeyState(VK_UP)) // If player presses up arrow key
           movePlayerUp(px, py, score, bx, by, playerHealth);
       if (GetAsyncKeyState(VK_DOWN)) // If player presses down arrow key
           movePlayerDown(px, py, score, bx, by, playerHealth);
       if (GetAsyncKeyState('X')) // If player presses x
           printFireRight(px, py);
           moveFireRight(px, py, score, enemyHealth, e1, e2, e3);
       if (GetAsyncKeyState('Z')) // If player presses z
           printFireLeft(px, py);
           moveFireLeft(px, py, score, enemyHealth, e1, e2, e3);
       if (GetAsyncKeyState(VK_LCONTROL)) // If player presses left contol key
           gotoxy(1, 31);
       printScore(score);
       printEnemyHealth(enemyHealth);
Enemies health
       printPlayerHealth(playerHealth);
```

```
printPlayerCoordinates(px, py);
player coordinates
       printBonusPillCoordinates(bx, by);
bonus pill coordinates
       playerHealthDecrement(playerHealth, px, py, e1x, e1y, e2x, e2y, e3x, e3y); //
Decreasing player health
       direction1 = cdirection1(direction1, ely);
                                                                                   // Changing
       moveEnemy1(direction1, e1x, e1y, e1);
       direction2 = cdirection2(direction2, e2y);
       moveEnemy2(direction2, e2x, e2y, e2);
       direction3 = cdirection3(direction3, e3x);
       moveEnemy3(direction3, e3x, e3y, e3);
       Sleep(250);
Controlling pace of the game
       if (playerHealth == 00) // If player health becomes 0
           clearHeader();
           gotoxy(0, 15); // Go to the given coordinates
           setcolor(4);
```

```
if (playerHealth == 00) // If player health becomes 0
{
    clearHeader();
    gotoxy(0, 15); // Go to the given coordinates
    setcolor(4);
    cout << "You Lose! Better Luck Next Time." << endl;
    abort(); // Terminating program
}
if (enemyHealth == 00 || pillCheck()) // If enemies health becomes zero or there are
no pills left
{
    if (keyCheck()) // If there is no key in the maze
    {
        printKey(kx, ky); // Printing key
    }
}
if (bonusCheck()) // If there is no bonus pill in the maze
{
        printBonusPill(bx, by); // Printing bouns pill
}
if (score > 1000) // If player grabs the key
{
        clearHeader();
        gotoxy(0, 15); // Go to the given coordinates
        setcolor(4);
        cout << "You Win! You Have Successfully Escaped The Mystery Maze." << endl;
        abort(); // Terminating program
}
</pre>
```

```
// Loading current game data into a file
    loadCoordinatesFile(filename, px, py, e1x, e1y, e2x, e2y, e3x, e3y, score,
playerHealth, enemyHealth, e1, e2, e3);
}
}
```

```
void maze() // Function for printing maze
{
```

```
setcolor(9);
```

```
cout <<
" << endl;
cout <<
              " << endl;
cout <<
"|| %%%%%%%%%%%%%%%%%
               %%%%%%%%%%%%%%%%%
  %%%%%%%%%%%%% o %%%
|| " << endl;
                                    %%%%%
            .|%| |%|.....o.....|%|
" << endl;
|%|. o ..|%|. ||
                                " << endl;
             o|%| %%%%%% %%%%%%
                                    %%%%%
             " << endl;
cout <<
" << endl;
'|| %%%%%%%
|| " << endl;
                 %%%%%
'|| o ......|%| o
|| " << endl;
cout << "|| |%|..
cout <<
            0 |%|. %%%%% .|%|.
          " << endl:
cout <<
  || " << endl;
"|| |%|.. %%%%%%%%%%% |%|%%%%%%%%%%% o|%| .|%|%%%%%%
 || " << endl;
cout << "|| .....o.....
<< endl;
                                         " << endl;
cout <<
"|| |%|...|%| %%%%%%%%%%%%%%
            " << endl;
 cout <<
             o|%| o %%%%% o
8 %%%%%%%%%%%%%%%%%%%
|%|. |%|%%%%
```

```
cout <<
               " << endl;
  cout <<
                  " << endl;
  cout <<
###########
                  " << endl;
  cout <<
            " << endl;
                             THE MYSTERY
MAZE
                                                " << endl;
  cout <<
            " << endl;
  cout <<
###########
             " << endl;
  setcolor(4);
  cout << endl
      << endl
            -> Press Left Control Key To Return to Main Menu...";
void Header() // Function for printing header
  setcolor(9);
  )" << endl;
string mainMenu() // Function for printing main menu
  setcolor(3);
  cout << " #########;
  cout << endl</pre>
```

```
MAIN MENU " << endl;
    cout << " ######### << endl;</pre>
    string option;
    setcolor(4);
    cout << endl;</pre>
   cout << " 1. New Game" << endl;
cout << " 2. Resume Game" << endl
               2. Resume Game" << endl;</pre>
               3. Controls" << endl;</pre>
    cout << " 4. Rules" << endl;</pre>
    cout << " 5. Story Of The Game" << endl;</pre>
    cout << " 6. Exit" << endl</pre>
         << endl;
    getline(cin >> ws, option);
    return option;
// Function for loading game data into the coordinates file
void loadCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int
&e2y, int &e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &e1, int &e2,
int &e3)
    fstream file;
   file.open(filename, ios::out);
    file << px << "," << py << "," << e1x << "," << e1y << "," << e2x << "," << e2y << "," <<
e3x << "," << e3y << "," << score << "," << playerHealth << "," << enemyHealth << <sup>"</sup>," << e1 <<
    file.close();
// Function for resetting game data from a file
void readCoordinatesFile(string filename, int &px, int &py, int &e1x, int &e1y, int &e2x, int
&e2y, int &e3x, int &e3y, int &score, int &playerHealth, int &enemyHealth, int &e1, int &e2,
int &e3)
    fstream file;
    file.open(filename, ios::in);
    string line;
    while (getline(file, line))
            px = stoi(getField(line, 1));
            py = stoi(getField(line, 2));
            e1x = stoi(getField(line, 3));
            e1y = stoi(getField(line, 4));
            e2x = stoi(getField(line, 5));
            e2y = stoi(getField(line, 6));
            e3x = stoi(getField(line, 7));
            e3y = stoi(getField(line, 8));
            score = stoi(getField(line, 9));
            playerHealth = stoi(getField(line, 10));
            enemyHealth = stoi(getField(line, 11));
```

```
e1 = stoi(getField(line, 12));
           e2 = stoi(getField(line, 13));
           e3 = stoi(getField(line, 14));
    file.close();
string getField(string record, int field) // Function for returning the required data from a
    int commaCount = 1;
   string item;
    for (int x = 0; x < record.length(); x++)
       if (record[x] == ',')
            commaCount = commaCount + 1;
       else if (commaCount == field)
            item = item + record[x];
   return item;
void clearScreen()
{ // Function for Clearing screen
   setcolor(8);
   cout << end1</pre>
              Press Any Key to Continue.." << endl;
   getch();
   system("cls");
void clearHeader()
{ // Function for clearing screen and printing header
    system("cls");
   Header();
void wrongOption()
{ // Function for clearing screen and printing header if user enters wrong option
                Wrong Option Entered..." << endl;
   clearScreen();
   Header();
char getCharAtxy(short int x, short int y)
{ // Function for checking character at given coordinates
   CHAR_INFO ci;
   COORD xy = \{0, 0\};
```

```
SMALL_RECT rect = {x, y, x, y};
   COORD coordBufSize;
   coordBufSize.X = 1;
   coordBufSize.Y = 1;
   return ReadConsoleOutput(GetStdHandle(STD_OUTPUT_HANDLE), &ci, coordBufSize, xy, &rect) ?
ci.Char.AsciiChar : ' ';
void gotoxy(int x, int y)
{ // Function for going to given coordinates
    COORD coordinates;
   coordinates.X = x;
   coordinates.Y = y;
   SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coordinates);
void Enemy1(int &e1x, int &e1y)
{ // Function for printing enemy1
   gotoxy(e1x, e1y);
   setcolor(5);
void eraseEnemy1(int &e1x, int &e1y)
{ // Function for erasing enemy1
    gotoxy(e1x, e1y);
void moveEnemy1(string &direction1, int &e1x, int &e1y, int &e1)
       eraseEnemy1(e1x, e1y);
       if (direction1 == "down")
           e1y = e1y + 1;
       if (direction1 == "up")
           e1y = e1y - 1;
       Enemy1(e1x, e1y);
       eraseEnemy1(e1x, e1y);
string cdirection1(string &direction1, int &e1y)
{ // Function for changing enemy1 direction
    if (direction1 == "down" && e1y >= 21)
       direction1 = "up";
    if (direction1 == "up" && e1y <= 1)</pre>
```

```
direction1 = "down";
   return direction1;
void Enemy2(int &e2x, int &e2y)
{ // Function for printing enemy2
   gotoxy(e2x, e2y);
   setcolor(5);
   cout << "[2]";
void eraseEnemy2(int &e2x, int &e2y)
{ // Function for erasing enemy2
   gotoxy(e2x, e2y);
void moveEnemy2(string &direction2, int &e2x, int &e2y, int &e2)
       eraseEnemy2(e2x, e2y);
       if (direction2 == "up")
           e2y = e2y - 1;
       if (direction2 == "down")
           e2y = e2y + 1;
       Enemy2(e2x, e2y);
       eraseEnemy2(e2x, e2y);
string cdirection2(string &direction2, int &e2y)
{ // Function for changing enemy2 direction
   if (direction2 == "up" && e2y <= 1)</pre>
       direction2 = "down";
   if (direction2 == "down" && e2y >= 21)
       direction2 = "up";
void Enemy3(int &e3x, int &e3y)
{ // Function for printing enemy3
   gotoxy(e3x, e3y);
   setcolor(5);
```

```
void eraseEnemy3(int &e3x, int &e3y)
{ // Function for erasing enemy3
    gotoxy(e3x, e3y);
void moveEnemy3(string &direction3, int &e3x, int &e3y, int &e3)
{ // Function for moving enemy3
   if (e3 < 5)
       eraseEnemy3(e3x, e3y);
       if (direction3 == "left")
           e3x = e3x - 2;
       if (direction3 == "right")
       Enemy3(e3x, e3y);
        eraseEnemy3(e3x, e3y);
string cdirection3(string &direction3, int &e3x)
{ // Function for changing enemy3 direction
   if (direction3 == "left" && e3x <= 6)</pre>
       direction3 = "right";
   if (direction3 == "right" && e3x >= 72)
       direction3 = "left";
   return direction3;
void Player(int &px, int &py)
{ // Function for printing player
   gotoxy(px, py);
   setcolor(2);
   cout << "(P)";
void erasePlayer(int &px, int &py)
{ // Function for erasing player
   gotoxy(px, py);
    cout << " ";
void movePlayerLeft(int &px, int &py, int &score, int &bx, int &by, int &playerHealth)
```

```
if (getCharAtxy(px - 1, py) == ' ')
    erasePlayer(px, py);
   Player(px, py);
else if (getCharAtxy(px - 1, py) == '.')
   erasePlayer(px, py);
    px = px - 1;
    Player(px, py);
    score += 1;
else if (getCharAtxy(px - 1, py) == '*')
   erasePlayer(px, py);
    px = px - 1;
    Player(px, py);
    playerHealth += 5;
   printBonusPill(bx, by);
else if (getCharAtxy(px - 1, py) == 'o')
   erasePlayer(px, py);
    px = px - 1;
    Player(px, py);
    playerHealth -= 5;
else if (getCharAtxy(px - 1, py) == '$')
    erasePlayer(px, py);
    px = px - 1;
    Player(px, py);
    score += 1000;
```

void movePlayerRight(int &px, int &py, int &score, int &bx, int &by, int &playerHealth)
{ // Function for moving player right

```
if (getCharAtxy(px + 3, py) == ' ')
{
    erasePlayer(px, py);
    px = px + 1;
    Player(px, py);
}
else if (getCharAtxy(px + 3, py) == '.')
{
    erasePlayer(px, py);
    px = px + 1;
    Player(px, py);
    score += 1;
}
else if (getCharAtxy(px + 3, py) == '*')
{
    erasePlayer(px, py);
    px = px + 1;
    Player(px, py);
    px = px + 1;
    Player(px, py);
    px = px + 1;
    Player(px, py);
    playerHealth += 5;
```

```
printBonusPill(bx, by);
}
else if (getCharAtxy(px + 3, py) == 'o')
{
    erasePlayer(px, py);
    px = px + 1;
    Player(px, py);
    playerHealth -= 5;
}
else if (getCharAtxy(px + 3, py) == '$')
{
    erasePlayer(px, py);
    px = px + 1;
    Player(px, py);
    score += 1000;
}
```

void movePlayerUp(int &px, int &py, int &score, int &bx, int &by, int &playerHealth)
{ // Function for moving player up

```
if (getCharAtxy(px, py - 1) == ' ' \&\& getCharAtxy(px + 1, py - 1) == ' ' \&\& getCharAtxy(px + 1, py - 1) == ' ' &\& getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' ' ' ' && getCharAtxy(px + 1, py - 1) == ' '
    2, py - 1) == ' ')
                        erasePlayer(px, py);
                        py = py - 1;
                        Player(px, py);
            else if (getCharAtxy(px, py - 1) == '.' || getCharAtxy(px + 1, py - 1) == '.' ||
getCharAtxy(px + 2, py - 1) == '.')
                        erasePlayer(px, py);
                        Player(px, py);
                        score += 1;
           else if (getCharAtxy(px, py - 1) == '*' || getCharAtxy(px + 1, py - 1) == '*' ||
getCharAtxy(px + 2, py - 1) == '*')
                        erasePlayer(px, py);
                        py = py - 1;
                        Player(px, py);
                        playerHealth += 5;
                         printBonusPill(bx, by);
            else if (getCharAtxy(px, py - 1) == 'o' || getCharAtxy(px + 1, py - 1) == 'o' ||
getCharAtxy(px + 2, py - 1) == 'o')
                        erasePlayer(px, py);
                        Player(px, py);
                        playerHealth -= 5;
           else if (getCharAtxy(px, py - 1) == '$' || getCharAtxy(px + 1, py - 1) == '$' ||
getCharAtxy(px + 2, py - 1) == '$')
                        erasePlayer(px, py);
                         py = py - 1;
                         Player(px, py);
                         score += 1000;
```

```
void movePlayerDown(int &px, int &py, int &score, int &bx, int &by, int &playerHealth)
       // Function for moving player down
              if (getCharAtxy(px, py + 1) == ' ' \&\& getCharAtxy(px + 1, py + 1) == ' ' \&\& getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharAtxy(px + 1, py + 1) == ' k getCharA
                             erasePlayer(px, py);
                             py = py + 1;
                             Player(px, py);
              else if (getCharAtxy(px, py + 1) == '.' || getCharAtxy(px + 1, py + 1) == '.' ||
getCharAtxy(px + 2, py + 1) == '.')
                             erasePlayer(px, py);
                             Player(px, py);
                              score += 1;
              else if (getCharAtxy(px, py + 1) == '*' || getCharAtxy(px + 1, py + 1) == '*' ||
getCharAtxy(px + 2, py + 1) == '*')
                             erasePlayer(px, py);
                              py = py + 1;
                             Player(px, py);
                              playerHealth += 5;
                              printBonusPill(bx, by);
              else if (getCharAtxy(px, py + 1) == 'o' || getCharAtxy(px + 1, py + 1) == 'o' ||
 getCharAtxy(px + 2, py + 1) == 'o')
                             erasePlayer(px, py);
                             py = py + 1;
                            Player(px, py);
                             playerHealth -= 5;
              else if (getCharAtxy(px, py + 1) == '$' || getCharAtxy(px + 1, py + 1) == '$' ||
getCharAtxy(px + 2, py + 1) == '$')
                             erasePlayer(px, py);
                             py = py + 1;
                             Player(px, py);
                              score += 1000;
void playerHealthDecrement(int &playerHealth, int &px, int &py, int &e1x, int &e1y, int &e2x,
int &e2y, int &e3x, int &e3y)
{ // Function for checking conditions and decreasing player health
              if (getCharAtxy(px, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) == '[' || getCharAtxy(px + 1, py + 1) ==
       2, py + 1) == '[')
                              playerHealth -= 5;
              else if (getCharAtxy(px, py - 1) == ']' || getCharAtxy(px + 1, py - 1) == ']' ||
getCharAtxy(px + 2, py - 1) == ']')
```

```
playerHealth -= 5;
   else if (getCharAtxy(px + 3, py) == '[')
        playerHealth -= 5;
   else if (getCharAtxy(px - 1, py) == ']')
        playerHealth -= 5;
   else if (py == e3y)
        if (px == e3x || px + 1 == e3x || px + 2 == e3x || px == e3x + 2 || px + 1 == e3x + 2
| | px + 2 == e3x + 2 |
            playerHealth = 0;
   else if (py == e1y)
        if (px == e1x \mid | px + 1 == e1x \mid | px + 2 == e1x \mid | px == e1x + 2 \mid | px + 1 == e1x + 2
| | px + 2 == e1x + 2 |
            playerHealth = 0;
    else if (py == e2y)
        if (px == e2x \mid | px + 1 == e2x \mid | px + 2 == e2x \mid | px == e2x + 2 \mid | px + 1 == e2x + 2
| | px + 2 == e2x + 2 |
            playerHealth = 0;
void printScore(int &score)
{ // Function for printing score
    gotoxy(87, 25);
    setcolor(9);
    cout << "SCORE = " << score;</pre>
void printEnemyHealth(int enemyHealth)
{ // Function for printing enemy health
    gotoxy(84, 7);
    setcolor(9);
    gotoxy(90, 8);
    cout << enemyHealth;</pre>
void printPlayerHealth(int playerHealth)
 // Function for printing player health
    gotoxy(85, 2);
   setcolor(9);
```

```
cout << "Player Health";</pre>
   gotoxy(90, 3);
   cout << playerHealth;</pre>
void printPlayerCoordinates(int &px, int &py)
gotoxy(83, 12);
   setcolor(9);
   cout << "Player Coordinates";</pre>
   gotoxy(88, 13);
   cout << "Px = " << px;
   gotoxy(88, 14);
   cout << "Py = " << py;
void printBonusPillCoordinates(int &bx, int &by)
{ // Function for printing bonus pill coordinates
   gotoxy(84, 18);
   setcolor(9);
   gotoxy(88, 19);
   gotoxy(88, 20);
   cout << "By = " << by;
string setcolor(unsigned short color)
{ // Function for changing color
   HANDLE hcon = GetStdHandle(STD OUTPUT HANDLE);
   SetConsoleTextAttribute(hcon, color);
   return "";
void bounsPill()
{ // Function for printing bonus pill
   gotoxy(25, 9);
   setcolor(4);
void printBonusPill(int &bx, int &by)
{ // Function for printing bonus pill
   srand(time(0));
   bx = rand() \% 75;
   srand(time(0));
   by = rand() \% 20;
   while (!(getCharAtxy(bx, by) == ' ' && bx > 1 && by > 0))
       srand(time(0));
       bx = rand() \% 75;
       srand(time(0));
       by = rand() \% 20;
```

```
gotoxy(bx, by);
   setcolor(4);
void printKey(int &kx, int &ky)
{ // Function for printing key
    srand(time(0));
   kx = rand() \% 75;
   srand(time(0));
   ky = rand() \% 20;
   while (!(getCharAtxy(kx, ky) == ' ' \&\& kx > 1 \&\& ky > 0))
       srand(time(0));
       kx = rand() \% 75;
       srand(time(0));
       ky = rand() \% 20;
   gotoxy(kx, ky);
   setcolor(6);
void printFireRight(int &px, int &py)
{ // Function for printing right side fire
   gotoxy(px + 4, py);
   setcolor(4);
void printFireLeft(int &px, int &py)
{ // Function for printing left side fire
   gotoxy(px - 1, py);
   setcolor(4);
void eraseFire(int &px, int &py)
{ // Function for erasing fire
   gotoxy(px + 4, py);
void moveFireRight(int &px, int &py, int &score, int &enemyHealth, int &e1, int &e2, int &e3)
{ // Function for moving fire right
        for (int j = 1; j < 24; j++)
       if (getCharAtxy(i, j) == '>')
               if (getCharAtxy(i + 1, j) == ' ')
```

```
gotoxy(i, j);
                    gotoxy(i + 1, j);
                else if (getCharAtxy(i + 1, j) == '[')
                    if (getCharAtxy(i + 2, j) == '1')
                        score += 2;
                        enemyHealth -= 5;
                        gotoxy(i, j);
                    if (getCharAtxy(i + 2, j) == '2')
                        enemyHealth -= 5;
                        e2++;
                        gotoxy(i, j);
                    if (getCharAtxy(i + 2, j) == '3')
                        score += 2;
                        enemyHealth -= 5;
                        gotoxy(i, j);
cout << " ";</pre>
                else if (getCharAtxy(i + 1, j) == '#' || getCharAtxy(i + 1, j) == '|' ||
getCharAtxy(i+1, j) == '\%' \mid\mid getCharAtxy(i+1, j) == '.' \mid\mid getCharAtxy(i+1, j) == 'o'
|| getCharAtxy(i + 1, j) == '*')
                    gotoxy(i, j);
void moveFireLeft(int &px, int &py, int &score, int &enemyHealth, int &e1, int &e2, int &e3)
{ // Function for moving fire left
```

```
for (int j = 1; j < 24; j++)
```

```
if (getCharAtxy(i, j) == '>')
```

```
if (getCharAtxy(i - 1, j) == ' ')
    gotoxy(i, j);
cout << " ";</pre>
    gotoxy(i - 1,
```

```
else if (getCharAtxy(i - 1, j) == ']')
                    if (getCharAtxy(i - 2, j) == '1')
                        enemyHealth -= 5;
                        e1++;
                        gotoxy(i, j);
                        cout << " ";
                    if (getCharAtxy(i - 2, j) == '2')
                        score += 2;
                        enemyHealth -= 5;
                        e2++;
                        gotoxy(i, j);
                   if (getCharAtxy(i - 2, j) == '3')
                        score += 2;
                        enemyHealth -= 5;
                        e3++;
                        gotoxy(i, j);
               else if (getCharAtxy(i - 1, j) == '#' || getCharAtxy(i - 1, j) == '|' ||
getCharAtxy(i - 1, j) == '%' || getCharAtxy(i - 1, j) == '.' || getCharAtxy(i - 1, j) == 'o'
|| getCharAtxy(i - 1, j) == '*')
                   gotoxy(i, j);
                   cout << " ";
```

```
string controls()
{ // Function for printing controls
```

```
setcolor(3);
cout << endl;</pre>
cout << " ######### << endl;</pre>
cout << " CONTROLS" << endl;</pre>
cout << " ######### << endl
    << endl
     << endl:
setcolor(4);
cout << " -> " << setw(20) << left << "Move Player Up"
     << "----" << setw(20) << right << "Arrow Key (UP)" << endl;
cout << " -> " << setw(20) << left << "Move Player Down"</pre>
     << "----" << setw(20) << right << "Arrow Key (DOWN)" << endl;
cout << " -> " << setw(20) << left << "Move Player Left"
     << "----" << setw(20) << right << "Arrow Key (LEFT)" << endl;
cout << " -> " << setw(20) << left << "Move Player Right"</pre>
     << "----" << setw(20) << right << "Arrow Key (RIGHT)" << endl;</pre>
cout << " -> " << setw(20) << left << "Shoot To Right"</pre>
```

```
<< "----" << setw(20) << right << "X" << endl;
    cout << " -> " << setw(20) << left << "Shoot To Left"</pre>
        << "----" << setw(20) << right << "Z" << endl</pre>
        << endl;
              These are the controls of the game.";
string rules()
{ // Function for printing rules
    setcolor(3);
   cout << " #######" << endl;
cout << " RULES" << endl;</pre>
   cout << " #######" << endl;</pre>
   setcolor(4);
   cout << endl</pre>
        << " -> The player has a total of 50 health points." << endl;</pre>
   cout << endl
       << " -> There are 3 enemies in the game." << endl;</pre>
   cout << " -> Each enemy has 25 health points which totals to 75 enemy health points." <<</pre>
endl;
   cout << endl</pre>
        << " -> Collect as many pills (.) as you can. " << endl;</pre>
   cout << " -> Each pill increases the score by 1." << endl;</pre>
    cout << endl
        << " -> Try to avoid the unusual looking pills (o)." << endl;</pre>
    cout << " -> Each unusual looking pill decreases the player health by 5." << endl;</pre>
        << " -> A bonus pill (*) appears randomly in the maze." << endl;</pre>
    cout << " -> Collect the bonus pill to increase player health by 5." << endl;</pre>
   cout << endl</pre>
   cout << endl
        << " -> Avoid contact with an enemy." << endl;</pre>
   cout << "
              -> Contact with an enemy decreases player health completely thus making you
lose the game." << endl;
   cout << endl</pre>
        << " -> After an enemy is killed in a position, that specific position becomes a
bomb." << endl;</pre>
   cout << " -> If you go to a bomb area , you will die and lose the game" << endl;</pre>
    cout << end1</pre>
   score by 2." << endl;
   cout << " -> 5 hits to an enemy kils it." << endl;</pre>
   cout << endl</pre>
        << " -> If the player health decreases to 0 , you lose the game." << endl;</pre>
   cout << endl</pre>
        << " -> If you collect all the pills or kill all enemies , a key ($) appears in the
maze." << endl;</pre>
               -> Collect the key to win the game and get out of the mystery maze." << endl;
   return " These are the rules of the game.";
bool pillCheck()
 // Function for checking pill in the maze
```

```
for (int y = 1; y < 24; y++)
            if (getCharAtxy(x, y) == '.')
bool keyCheck()
{ // Function for checking key in the maze
        for (int y = 1; y < 24; y++)
            if (getCharAtxy(x, y) == '$')
bool bonusCheck()
{ // Function for checking bonus pill in the maze
        for (int y = 1; y < 24; y++)
            if (getCharAtxy(x, y) == '*')
string about()
{ // Function for printing story
    setcolor(3);
   cout << " ######" << endl;
cout << " STORY" << endl;</pre>
   cout << " ######" << endl;
   setcolor(4);
```

```
cout << endl;
cout << R"(
   The mystery maze is a game in which the player finds himself trapped inside a maze amidst
enemies
   and little bombs. He has to escape the maze but in order to do so he needs a key. He can
only see
   the key when he has killed all his enemies or collected all the pills inside the maze.
With each
   step, he faces danger, evading enemies and bombs. It's a thrilling adventure that tests
his skills
   and strategic thinking. Can he find the key and make it out of the maze filled with
mysteries?
   Only time will tell!
   )" << endl;</pre>
```

```
return " This is the Story of the game.";
```