```
#include "U8glib.h"
const byte backlight = 11;
const byte joyY = A8;
const byte joYY = A1;
const byte joYY = A1;
const byte sandamPin = A5;

volatile bool buttonPressed = false;

U8GLIB_PCD8544 u8g(8, 4, 7, 5, 6); // CLK=8, DIN=4, CE=7, DC=5, RST=6

typedef struct{
    byte xCoor;
    point;
    short joyXCenter = 510;
short joyXCenter = 510;
short joyXCenter = 510;
bool boolRegisters[5] = {false, false, false, false, false};
unsigned long lastTimer = 0;
unsigned short score = 0;
proint snake[80] = {{(21, 24), (21, 25), (21, 26), (21, 27), (21, 28), (21, 29), (21, 38), (21, 31);
    point pointRegisters[10] = {{(0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0), (0, 0)
```

```
myPoint -> xCoor = 0;
myPoint -> yCoor = 0;
snakeLength = 10;
// snakeLength = 10;
// snake[countSnake = 8: countSnake < 10; countSnake++){
    snake[countSnake] .xCoor = 21;
    snake[countSnake] .xCoor = 24 + countSnake;
}
myPoint -> xCoor = 0;
myPoint -> yCoor = 0;
}
}

//depending on the directin the snake is currently heading, increment by 1 unit
void snakeMove(byte snakeDirection){
    for(byte countSnake = snakeLength - 1; countSnake > 0; countSnake--){
        snake[countSnake] = snake[countSnake - 1];

        snake[countSnake] = snake(countSnake - 1];

        snake | snake | snake| snake|
```

```
pointRegisters -> yCoor = random(2, 33);
    **flag = false;
    return true;
}

return false;

//determines if point is acquired, and increments point if it is
//parameter: the location of the point as a point pointer
//returns true is point is acquired, false otherwise
bool checkRandomPoint(point* myPoint) {

if(snake -> xCoor == myPoint -> xCoor && snake -> yCoor == myPoint -> yCoor){
    snake[snakelength] .xCoor = snake[snakelength - 1] .yCoor;
    snakelength = snakelength + 1;

//score = score + map(score, 0, 600, 2, 30);
    if(score <= 10) score = score + 3;
    else if(score <= 00) score = score + 10;
    else if(score <= 00) score = score + 50;
    else if(score <= 00) score = score + 50;
    else if(score <= 100) score = score + 50;
    else if(score <= 100) score = score + 25;
    else if(score <= 100) score = score + 25;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else score = score + 500;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <= 100) score = score + 20;
    else if(score <
```

```
pinMode(joyX, INPUT);
pinMode(joyY, INPUT);
pinMode(joyY, INPUT)
pi
```