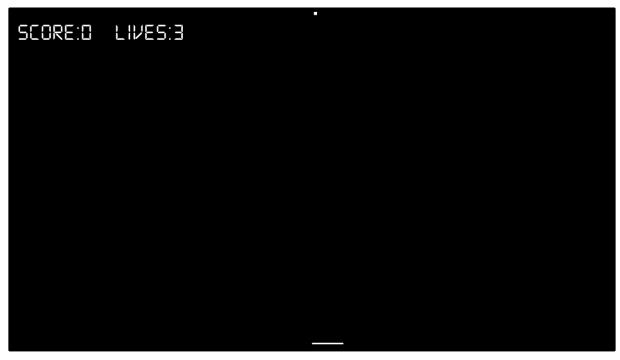
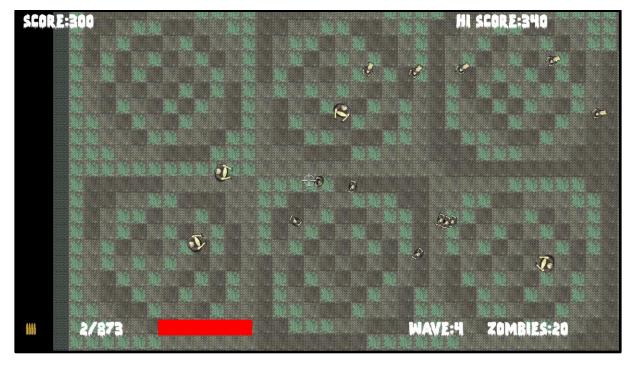
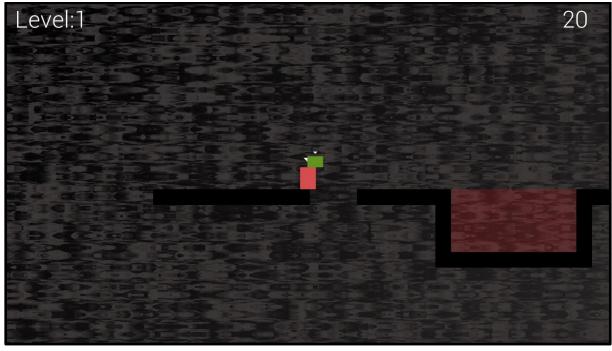
Chapter 1: C++, SFML, Visual Studio, and Starting the First Game

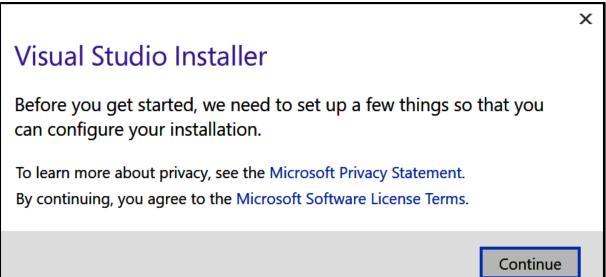


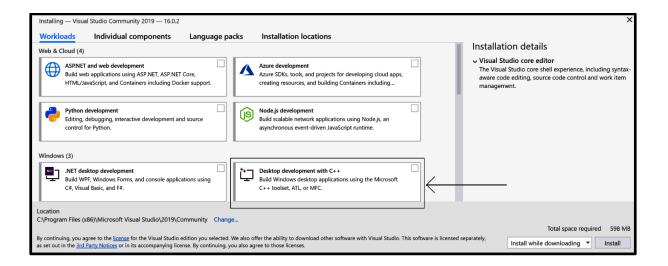


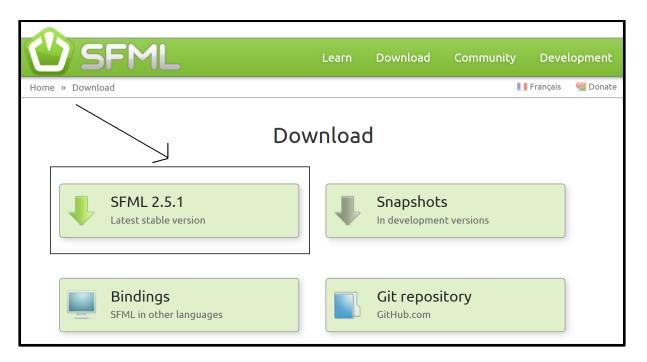


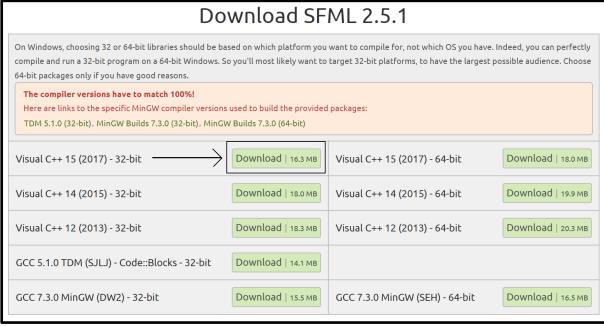


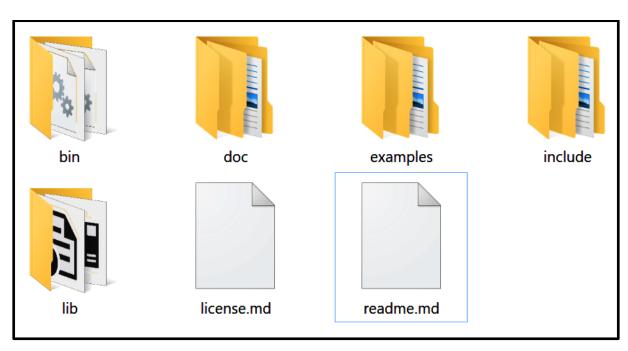


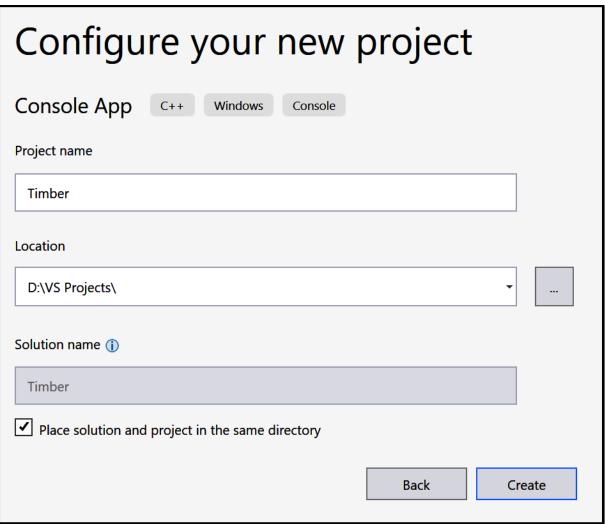


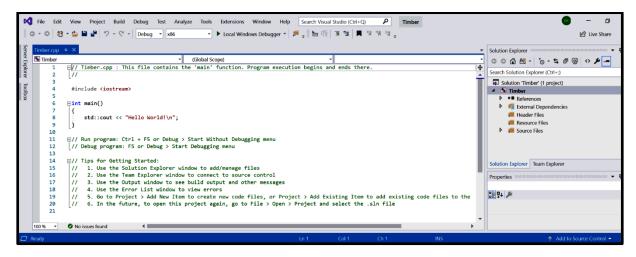


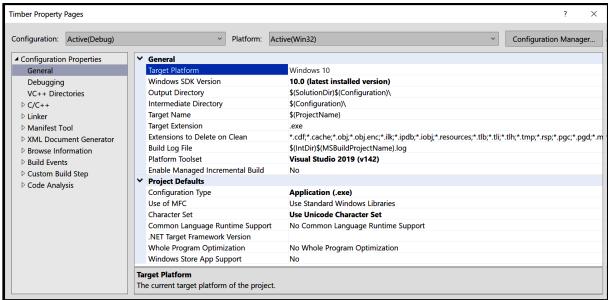


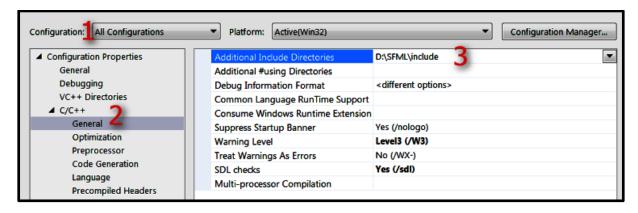


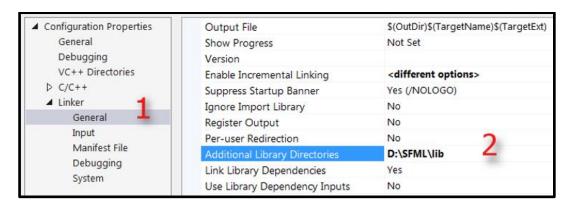


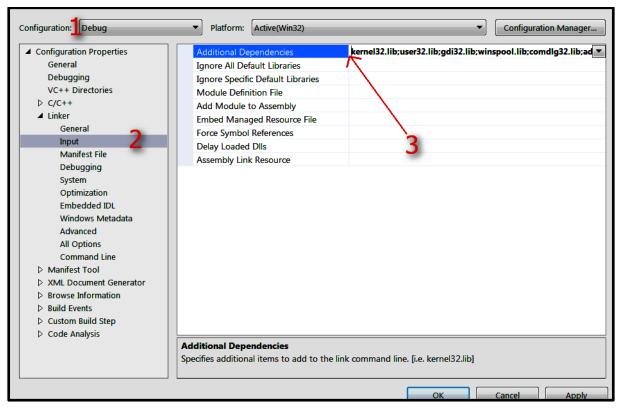




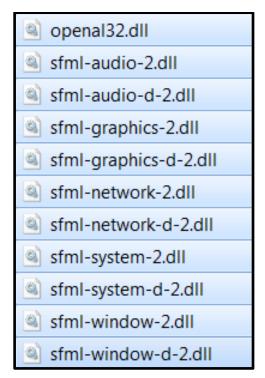


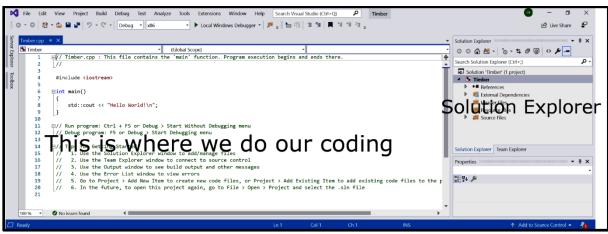


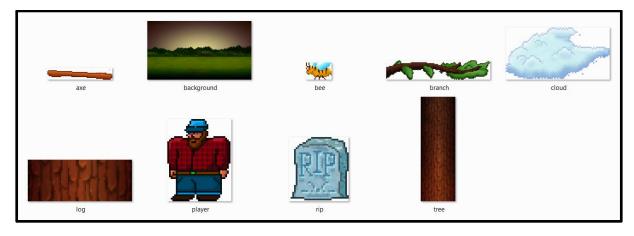


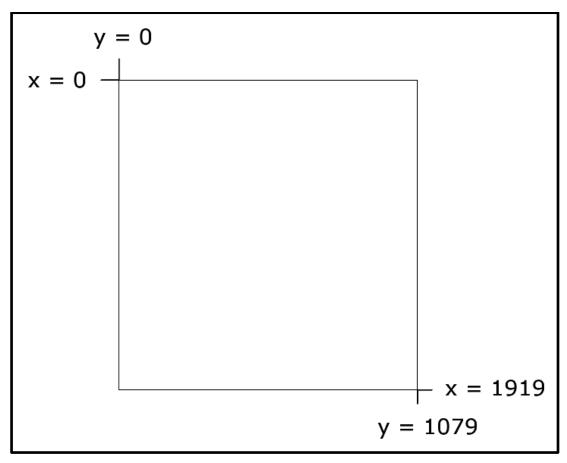


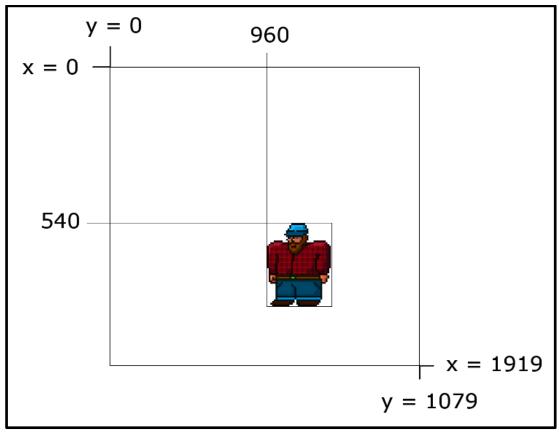


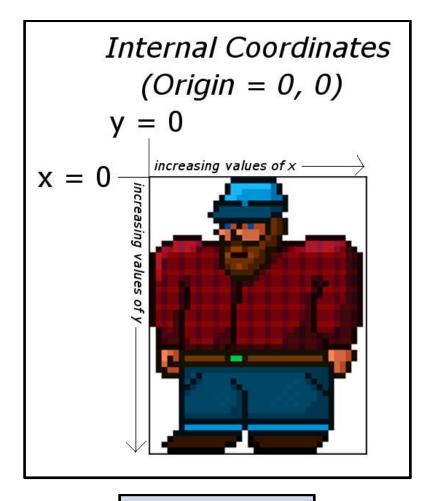












▶ Local Windows Debugger ▼

Update all the game objects (move them, see if they collided, Al, etc.)

Respond to any screen touches from the user

Draw all the game objects in there up-to-date positions



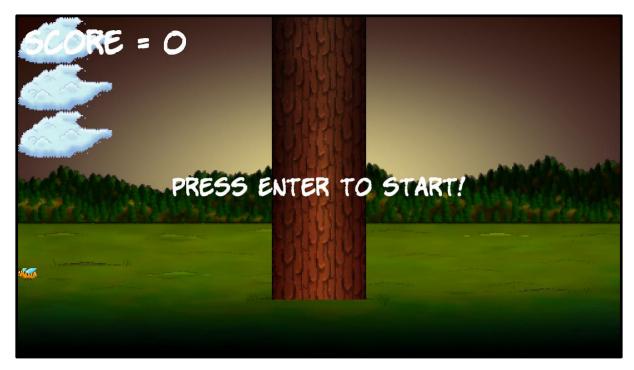


Chapter 2: Variables, Operators, and Decisions – Animating Sprites





Chapter 3: C++ Strings and SFML Time – Player Input and HUD

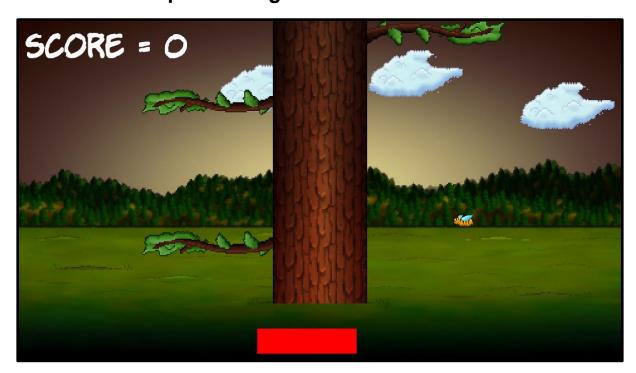








Chapter 4: Loops, Arrays, Switches, Enumerations, and Functions – Implementing Game Mechanics



Chapter 5: Collisions, Sound, and End Conditions – Making the Game Playable

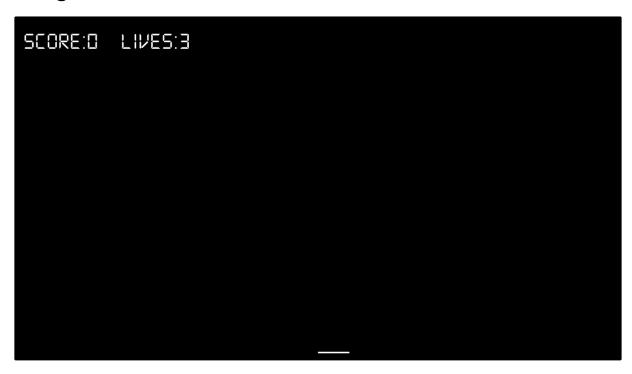








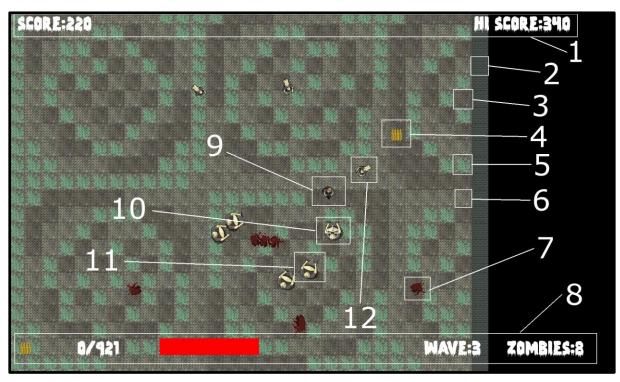
Chapter 6: Object-Oriented Programming – Starting the Pong Game

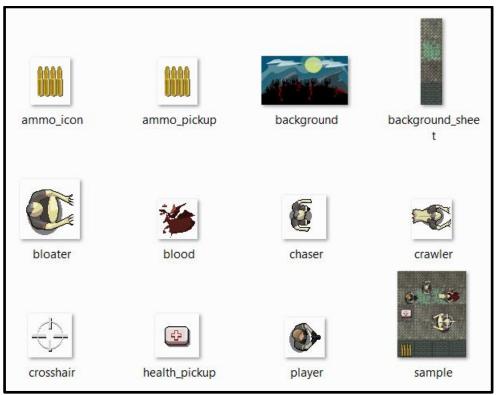


Chapter 7: Dynamic Collision Detection and Physics – Finishing the Pong Game



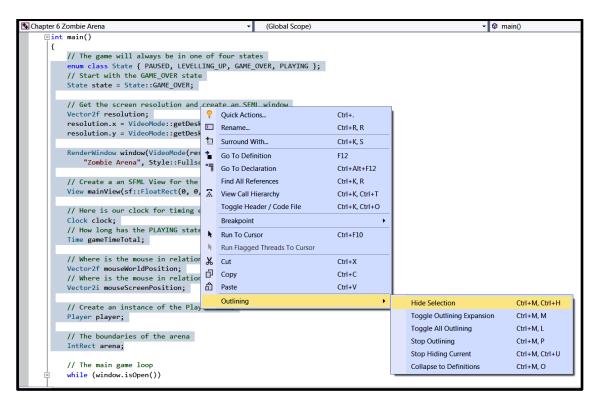
Chapter 8: SFML Views – Starting the Zombie Shooter Game





// The main game loop
while (window.isOpen())

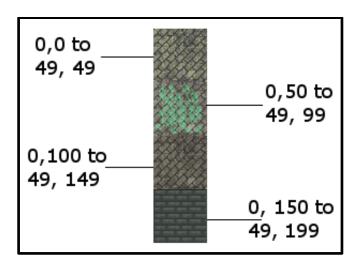
{

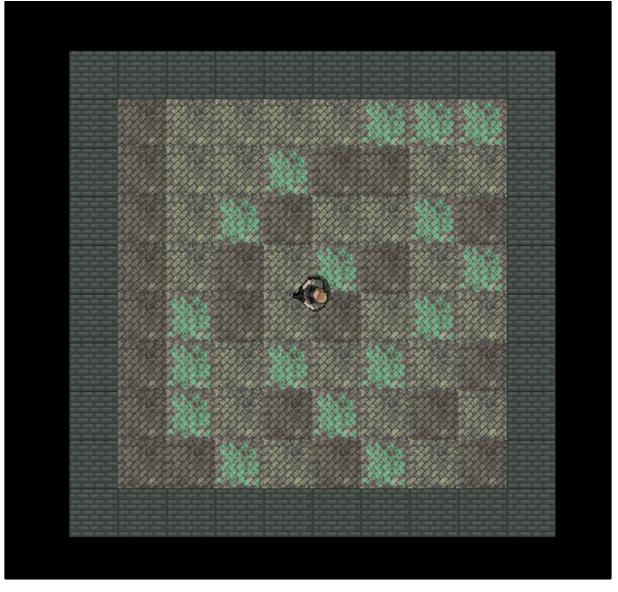


```
int main()
{
    ...
    // The main game loop
    while (window.isOpen())
    {
```

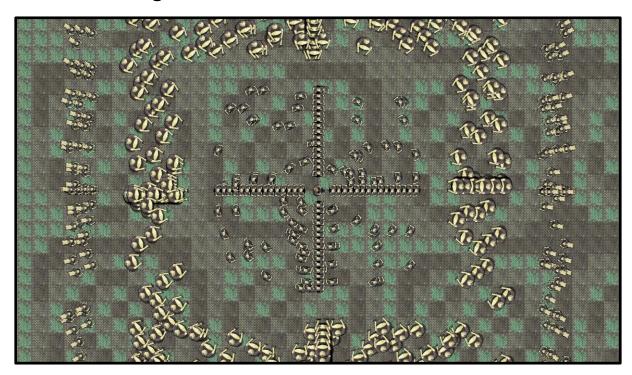


Chapter 9: C++ References, Sprite Sheets, and Vertex Arrays

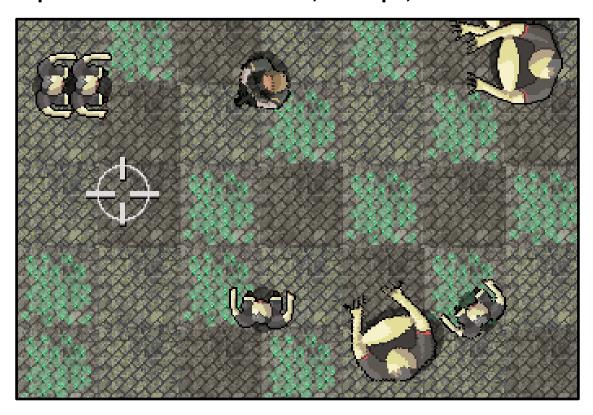


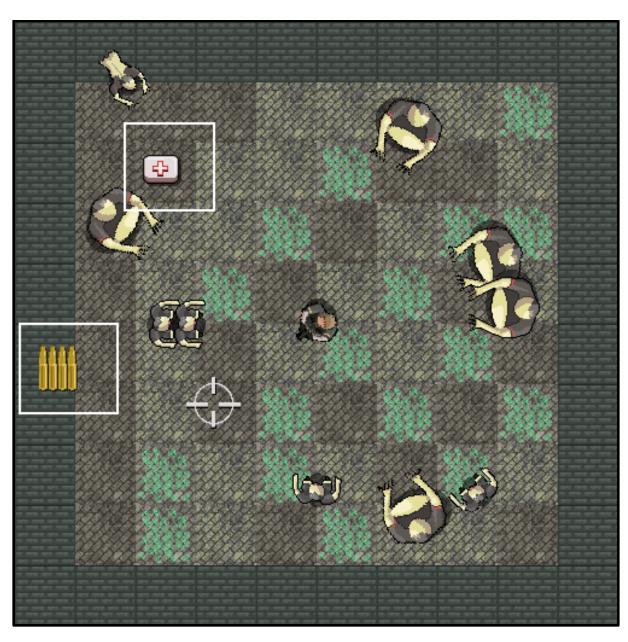


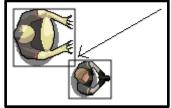
Chapter 10: Pointers, the Standard Template Library, and Texture Management



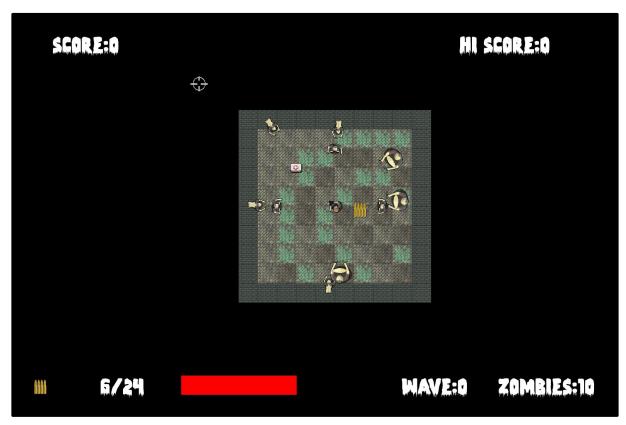
Chapter 11: Collision Detection, Pickups, and Bullets



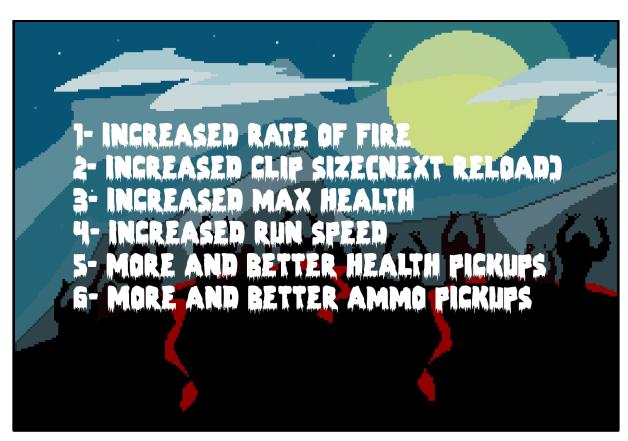




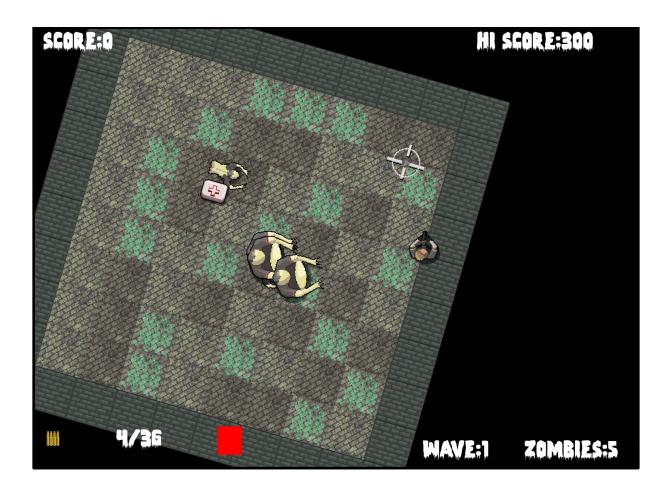
Chapter 12: Layering Views and Implementing the HUD



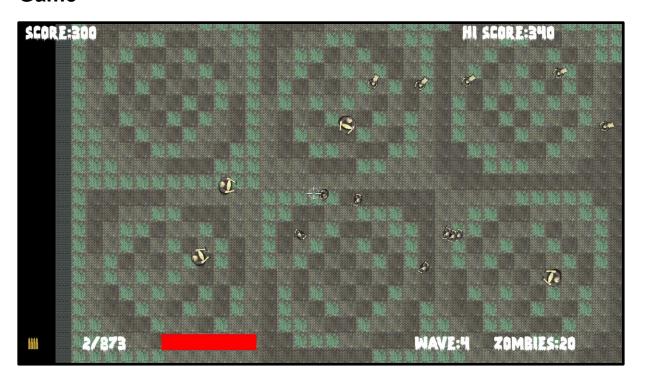




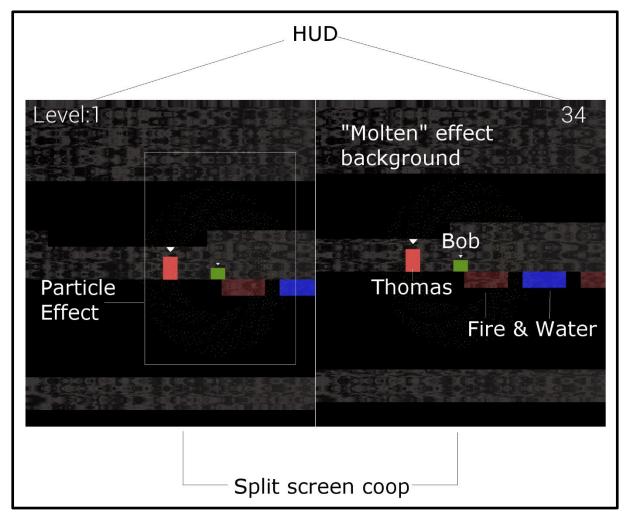


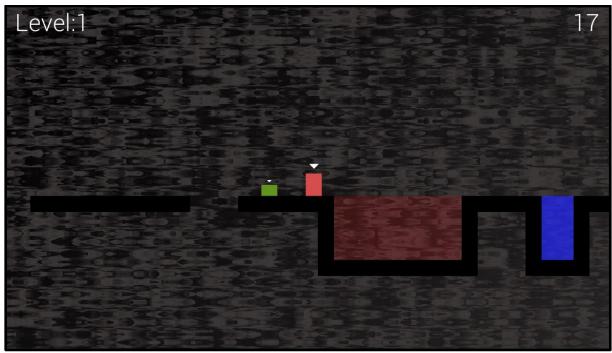


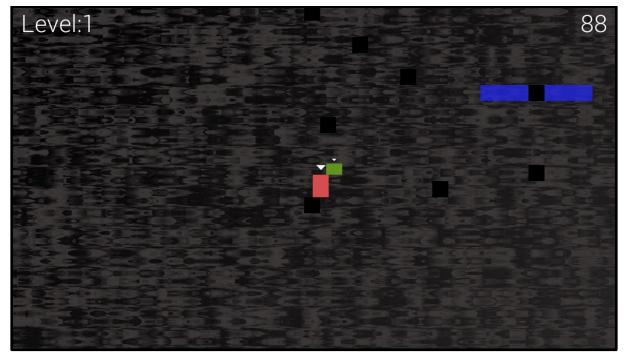
Chapter 13: Sound Effects, File I/O, and Finishing the Game

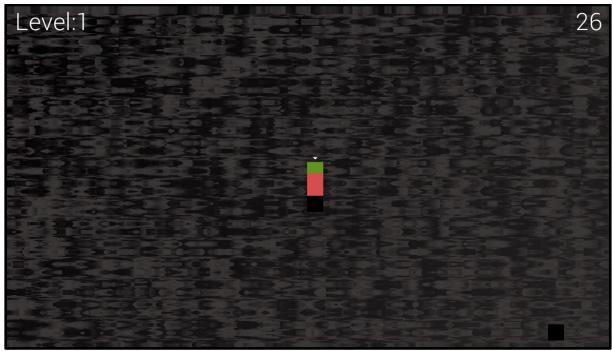


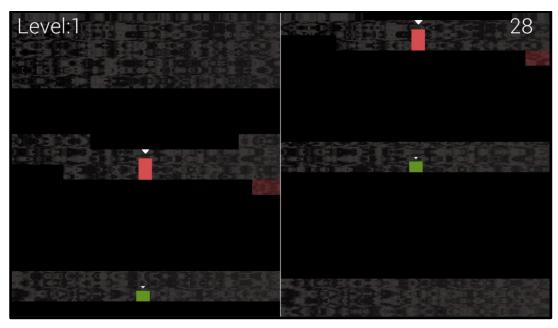
Chapter 14: Abstraction and Code Management – Making Better Use of OOP



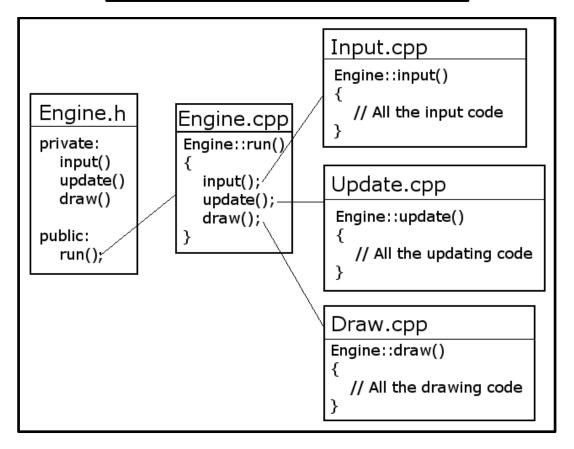






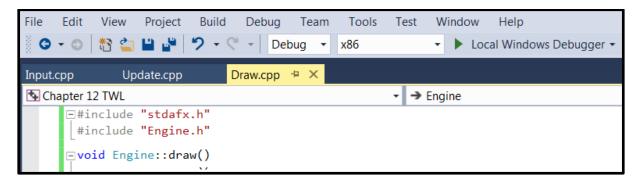




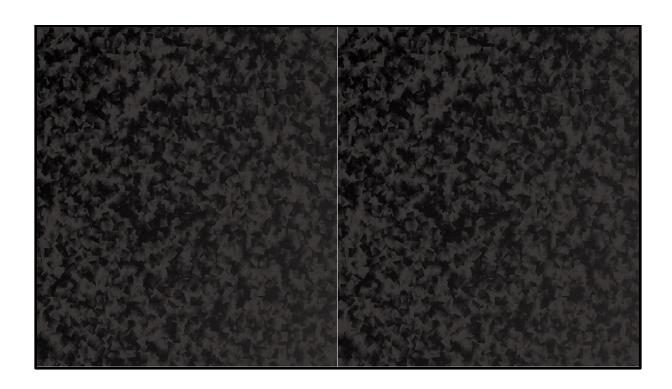


m_LeftView on top of m_BGLeftView

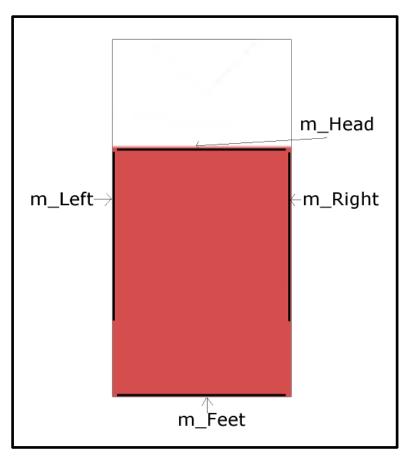
m_RightView on top of m_BGRightView

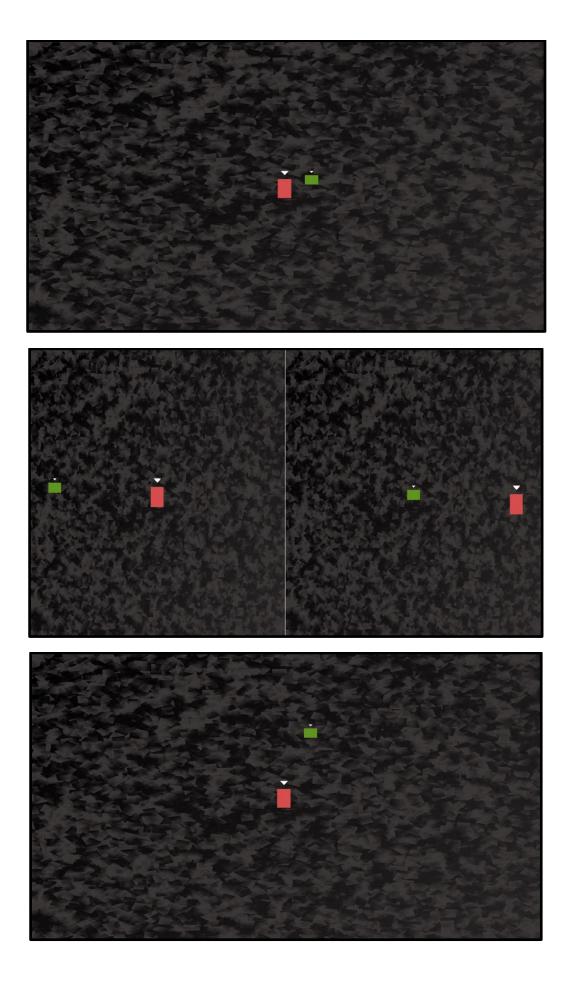




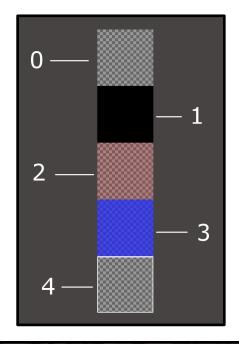


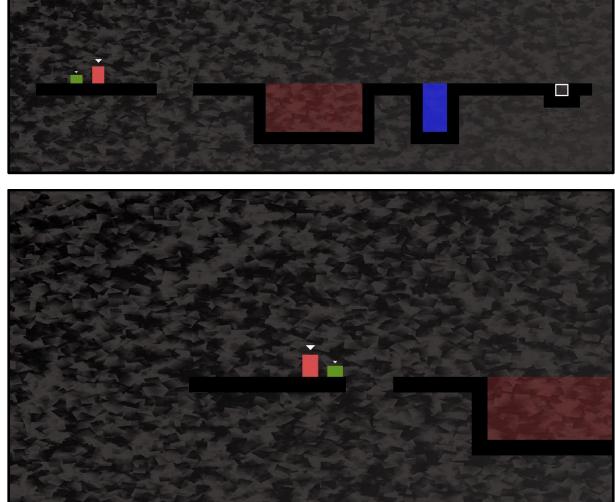
Chapter 15: Advanced OOP – Inheritance and Polymorphism

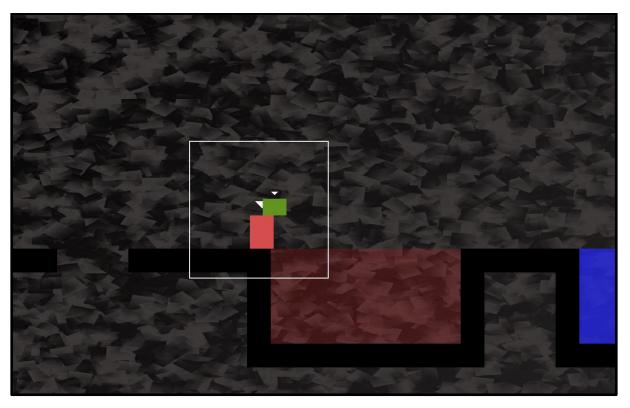


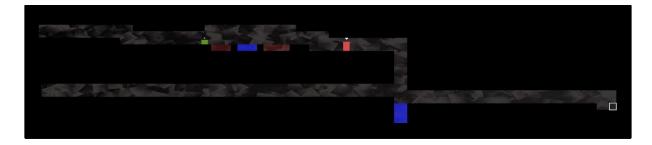


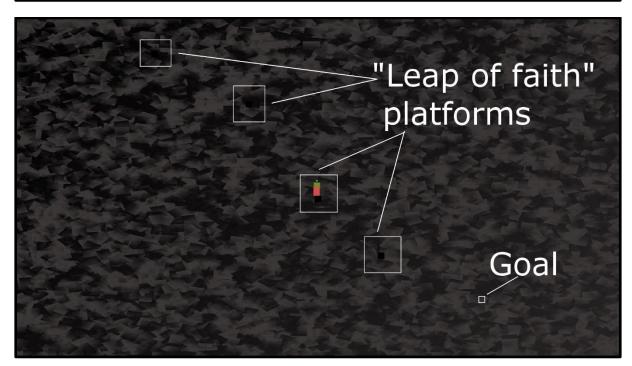
Chapter 16: Building Playable Levels and Collision Detection

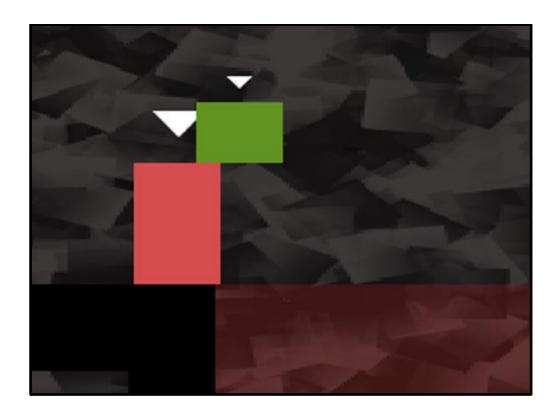




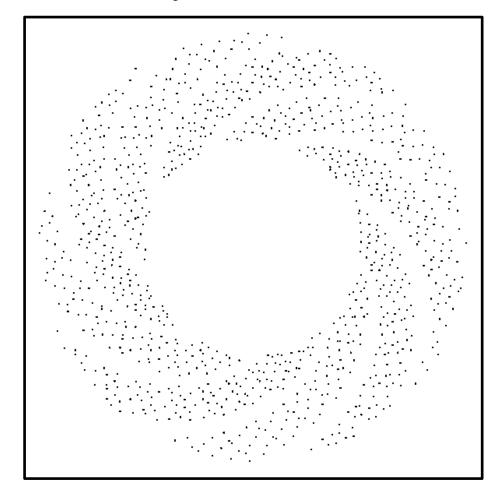


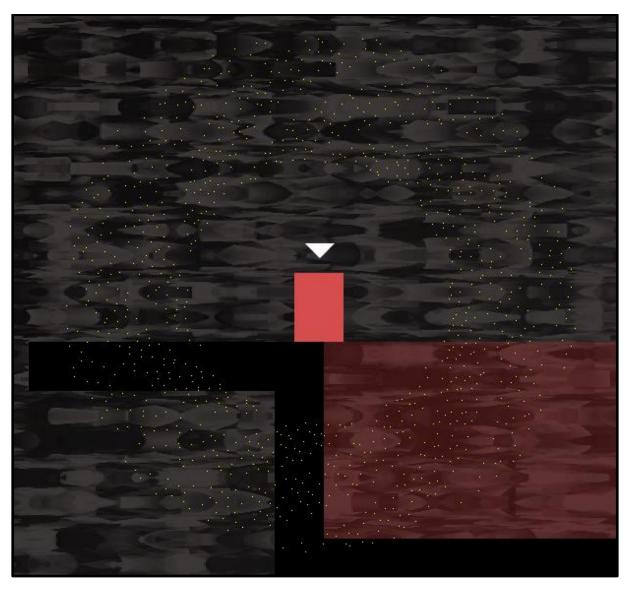


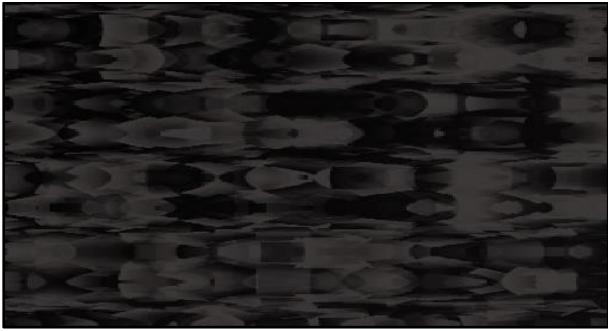




Chapter 18: Particle Systems and Shaders





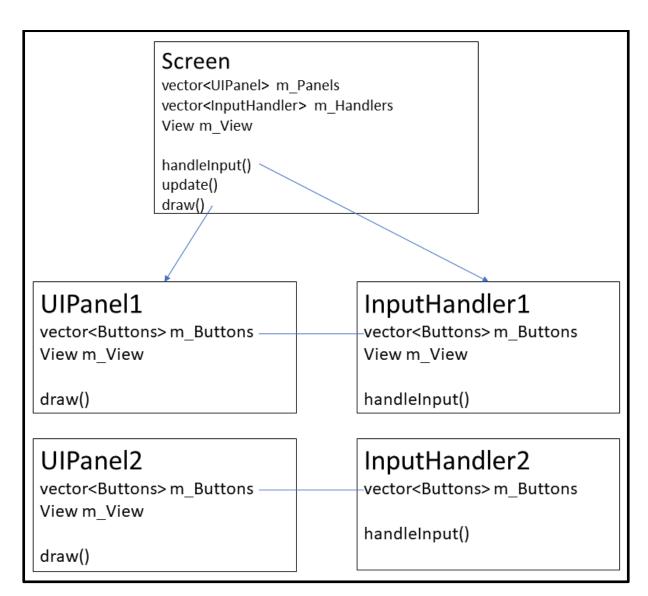


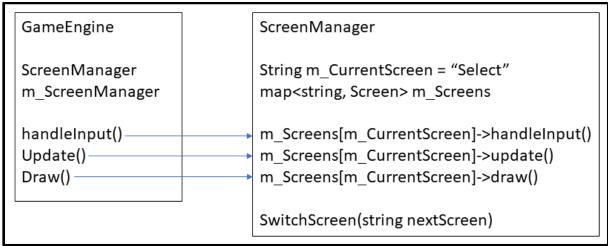
Chapter 19: Game Programming Design Patterns – Starting the Space Invaders ++ Game

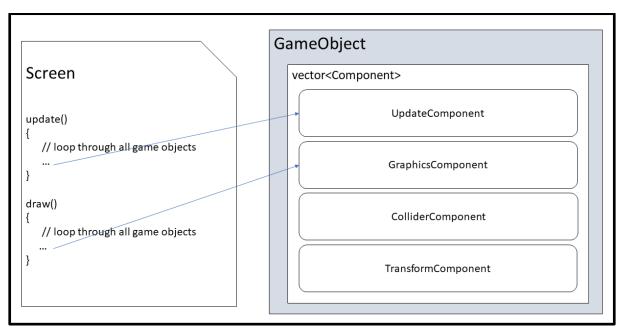


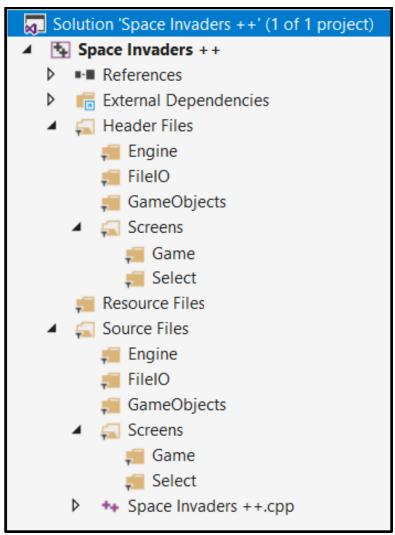






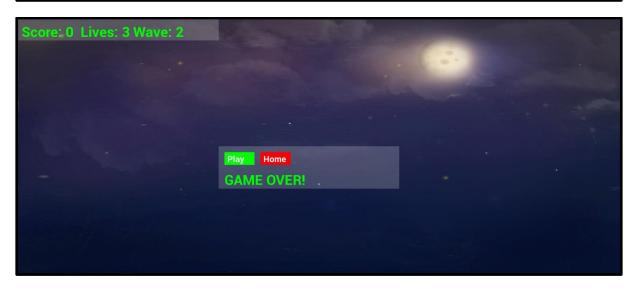




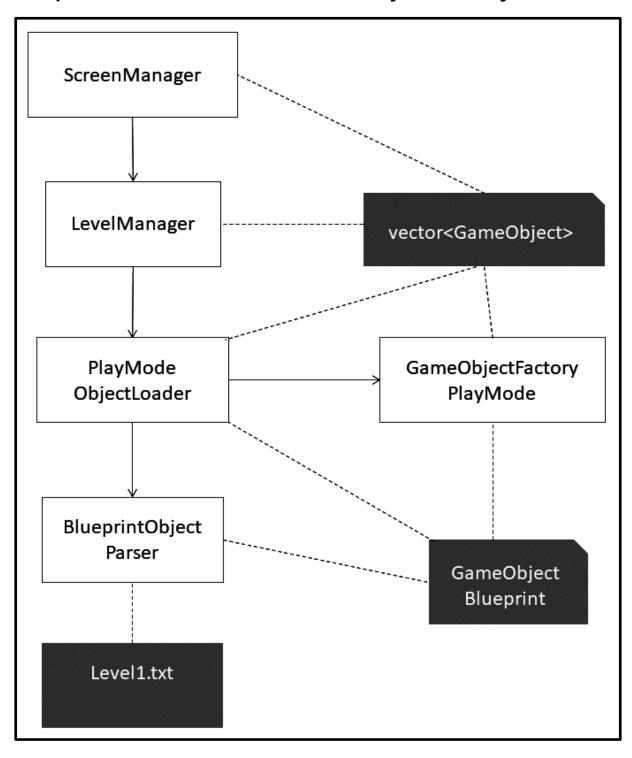




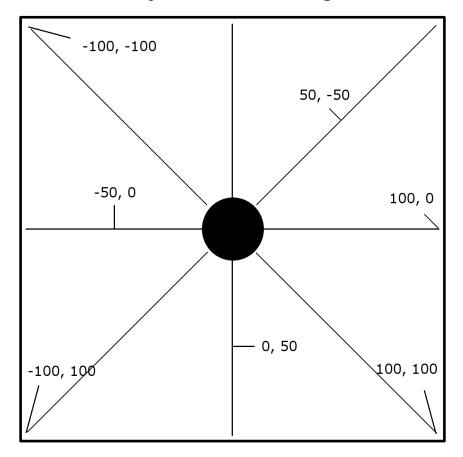




Chapter 21: File I/O and the Game Object Factory



Chapter 22: Game Objects and Building a Game



```
Space Invaders ++.cpp 😕 🗙
Space Invaders ++ 2
               #include "GameEngine.h"
       1
       2

    int main()

       3
               {
       4
       5
                    GameEngine m_GameEngine;
                    m_GameEngine.run();
       6
                    return 0;
       7
               }
```

```
GameEngine m_GameEngine;

m_GameEngine.run();

return 0;
```



