A clone of "The Line" game. The game will be made using Unity and C# and it is only for the purpose of demonstrating my game development skillset as a part of an interview process for a job position. It won't cover all the features that are part of the original game but will include and not include some of these features as outlined below:

- 3 features NOT needed for this game clone
 - X6 boost and path logic
 - o Sound
 - Jump booster
- 2 features being added
 - o Invicibility
 - Size shrinker

Couple key points to mention:

- Use of VContainer for dependency injection
 - o Avoid tight coupling between different systems and classes
- Use object pooling (potentially use existing implementation in VContainer)
- Road guard blocks
 - These are the blocks that user needs to avoid and surrounds/blocks the road;
 road on the other hand is an empty space void of the "road guard blocks"
- Road guard block generator that would generate blocks to fit the screen
- For UI, will be adopting MVC design pattern

Architecture Overview

- Systems
 - GameSystem
 - Managing overall flow of the game including UI state management
 - Will include game state
 - RoadSystem
 - Manage road generation
 - Using object pool to manage RoadGuardBlock instances
 - GameEventSystem
 - Event listener registration
 - Propagates events to listeners
 - BoosterSystem
 - Invincibility and size shrinker booster handling
- Other Classes
 - InputHandler
 - Handling of player input and appropriate response
 - Use command design pattern if possible
 - RoadGuardBlock
 - RoadGuardBlockGroup
 - ObjectPool
 - PlayerSpawnSystem