**รายงานเกม Quoridor**

**จัดทำโดย**

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**วิชา 2110215 PROGRAMMING METHODOLOGY**

**ภาคเรียนที่ 2 ปีการศึกษา 2019**

**จุฬาลงกรณ์มหาวิทยาลัย**

**บทนำ**

นิสิต 2 คนได้เล่นเกมกระดาน Quoridor แต่ไม่พอใจในกฎของเกม จึงคิดที่จะทำเกม Quoridor ของตัวเองขึ้นมาแทน

**วิธีเอาชนะเกม:**

เกมใหม่นี้มีกฎเหมือนเดิม นั่นก็คือ ไปอีกฝั่งของกระดานให้ได้ แต่ก็ได้กฎใหม่ขึ้นมา ซึ่งก็คือ ลดพลังชีวิตของศัตรูให้เหลือ 0

**กฎการเล่น:**

1. เริ่มเกม

ผู้เล่นแต่ละฝั่งจะต้องเลือกสีของหมากตัวเอง (ต้องเลือกคนละสี หากเป็นสีเดียวกัน จะไม่มีปุ่ม next ขึึ้นให้เล่นเกม) เมื่อเริ่มเกมมา ผู้เล่นจะมีไอเท็มเริ่มต้นดังต่อไปนี้:

* ระเบิด 3 ลูก
* Barricade 10 อัน
* Barricade Removal 5 ครั้ง
* 3 Life Point

1. ในแต่ละเทิร์น ผู้เล่นจะต้องทำ 1 อย่างดังนี้:

* เดิน : เลือกเดินได้ 4 ทิศทาง : ขึ้น ลง ซ้าย ขวา โดยท่ีผู้เล่นจะไม่สามารถเดินผ่าน Barricade หรือ เดินทับหมากของผู้เล่นอื่นได้
* วาง Barricade : เลือกวาง Barricade ส่วนไหนก็ได้ตรงช่องกระดาน โดยให้เลือกวางแนวตั้งกับแนวนอน โดยที่กฎการวางนั้นมีอยู่ข้อเดียว : ฝั่งตรงข้ามและเราจะ**ต้อง**เดินไปจุดเกิดและฝั่งตรงข้ามกับจุดเกิดของตนเองได้หลังจากที่วางไปแล้ว ไม่งั้นจะไม่สามารถวางได้
* Remove Barricade : เลือกเอา Barricade ที่อยู่บนกระดานออก อันไหนก็ได้
* วางระเบิด : ลงตรงไหนก็ได้ของกระดาน เมื่อฝั่งใดก็ได้เดินไปทับระเบิดจะกลับไปจุดเกิด และลด Lifepoint ลง 1
* เกมไม่ให้คลิกที่หมากของผู้เล่น

1. Special Tile:

ทุกๆ 2 เทิร์น จะสุ่มเกิด Special Tile บนกระดาน ตรงไหนก็ได้ที่เป็นพื้นธรรมดา(ไม่มีผู้เล่น,ระเบิด หรือ Special Tile อื่นๆ) โดยมีทั้งหมด 8 แบบ ดังนี้:

1. ได้ Barricade เพิ่ม 1 อัน
2. ได้ระเบิด 1 ลูก
3. เพิ่ม Life point ผู้เล่นที่เหยียบ 1 ถ้าผู้เล่นเหยียบขณะมี Life point 3 จะไม่เกิดอะไรขึ้น
4. Move Player : สุ่มผู้เล่นที่เหยียบเดินไปทิศไหนก็ได้ 1 ทิศ โดยถ้าสุ่มเดินแล้วมี Barricade หรือผู้เล่นอื่นอยู่ก็จะไม่เดิน
5. Move Other Player : สุ่มผู้เล่นฝั่งตรงข้ามเดินไปทิศไหนก็ได้โดยกฎเหมือนกับ Move Player แต่จะบังคับฝั่งตรงข้ามใช้เทิร์นและกลับมาเทิร์นตัวเองทันที
6. Remove All Barricade : ทำให้ Barricade ทั้งหมดบนกระดานหายไป
7. Remove All Special Tile : ทำให้ Special Tile ทั้งหมดบนกระดานหายไป
8. Random Special Tile สุ่มเอฟเฟกต์ของ Special Tile 7 อันข้างบนเมื่อเหยียบลงไป

รูปภาพประกอบด้วย รูปวาด

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติรูปภาพประกอบด้วย วัตถุ, รูปวาด, นาฬิกา

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติรูปภาพประกอบด้วย รูปวาด

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติรูปภาพประกอบด้วย โต๊ะ

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติ

Get 1 Barricade Get 1 Bomb Heal 1 Move Player

รูปภาพประกอบด้วย ภาพหน้าจอ

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติรูปภาพประกอบด้วย รูปวาด

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติรูปภาพประกอบด้วย นาฬิกา

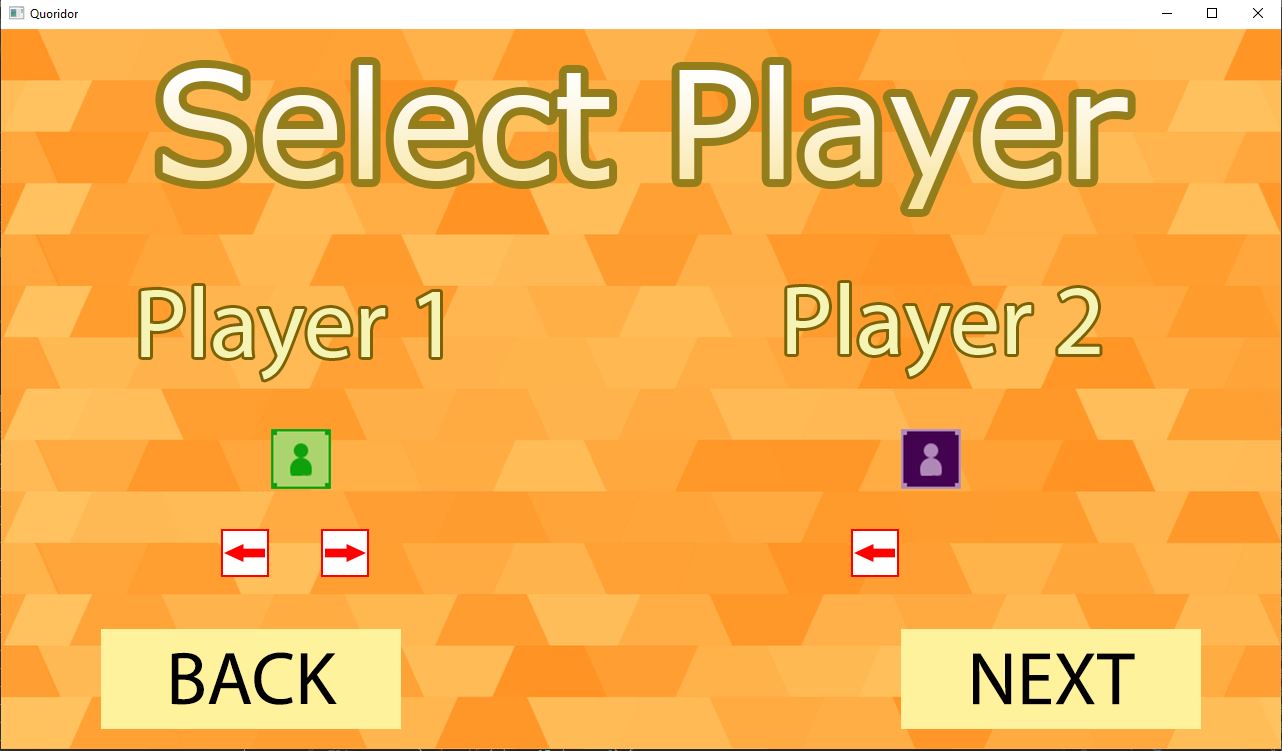
คำอธิบายที่สร้างขึ้นโดยอัตโนมัติ

Move other Player Remove All player Remove special tile Random

Main Menu จะมีหน้าตาแบบนี้

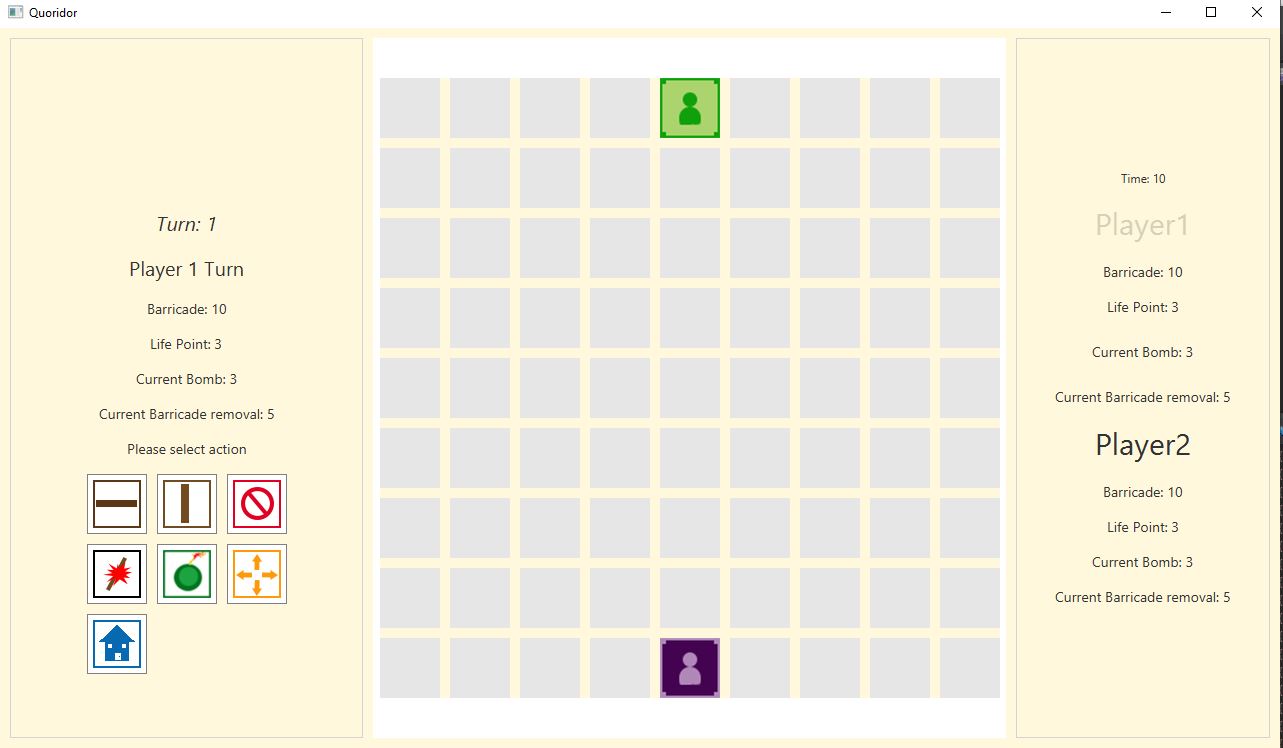


เมื่อกด Play จะไปหน้าเลือกหมาก ต้องเป็นหมากคนละสีถึงจะไปหน้าต่อไปได้



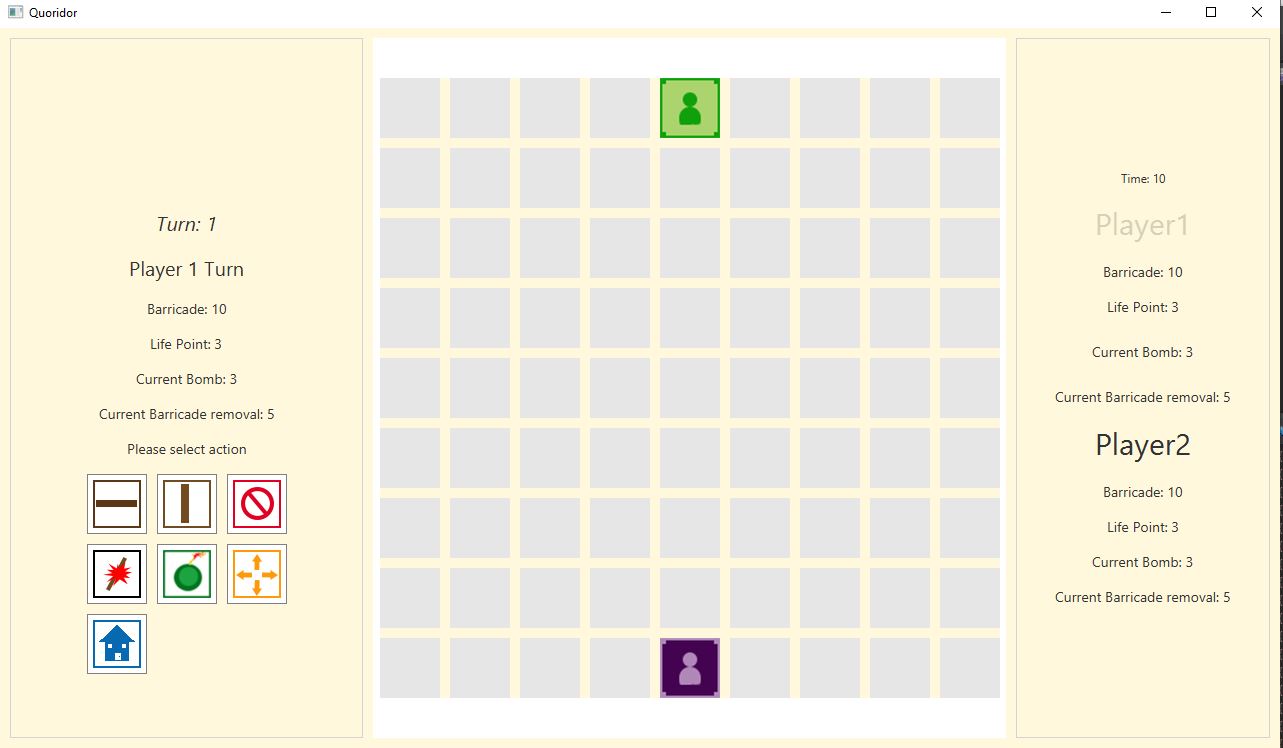
หน้าเกมจะมีหน้าตาแบบนี้

Player 1 จะอยู่ตรงนี้



Player 2 อยู่ตรงนี้

สามารถเลือกทำได้ 4 อย่าง



ทำลาย Barricade

วางระเบิด

เดิน บน ล่าง ซ้าย ขวา

วาง Barricade

กลับหน้า Main menu

ไม่สามารถเดินได้ถ้ามี Barricade ขวางอยู่

![รูปภาพประกอบด้วย ภาพหน้าจอ

คำอธิบายที่สร้างขึ้นโดยอัตโนมัติ](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFTVVMAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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หมากสีม่วงพยายามจะเดินมาตรงนี้ แต่ไม่ได้เพราะ Barricade ขวางอยู่

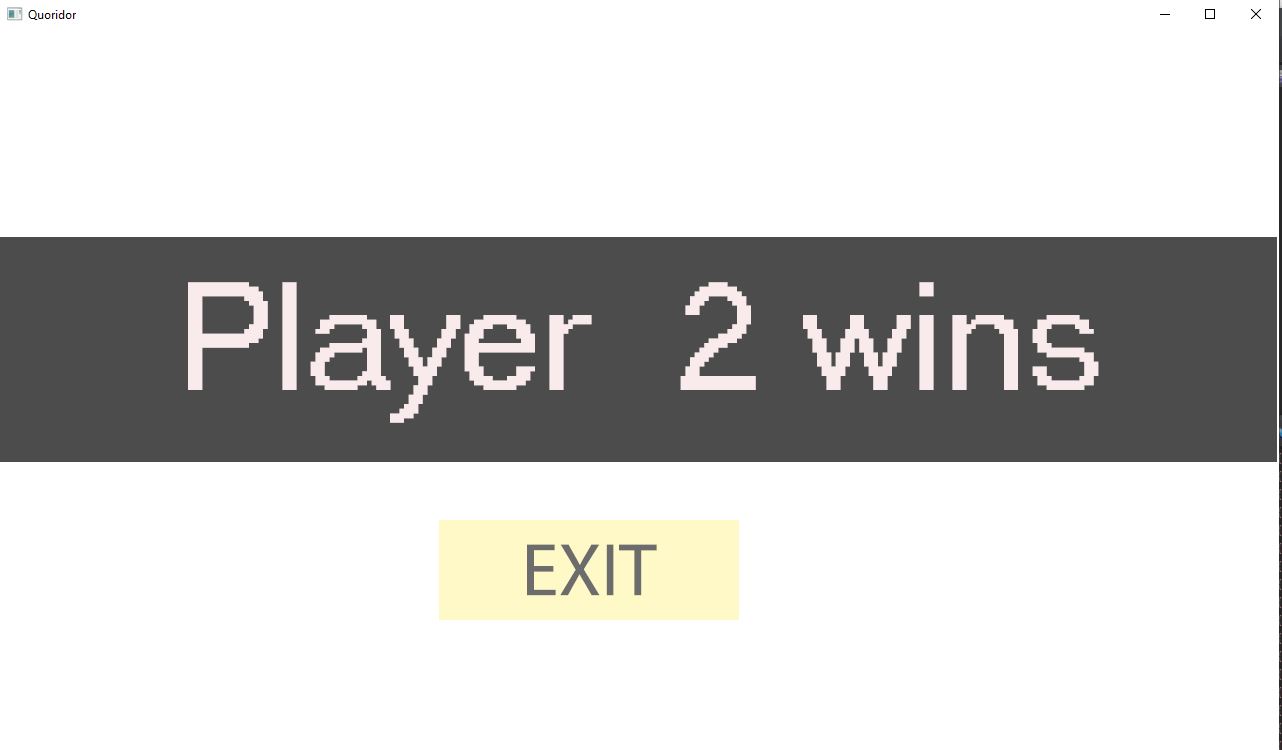
หากเลือกวาง Barricade แล้วหมากทั้งสองฝั่งไม่สามารถเดินไปจุดเกิดและฝั่งชนะได้ จะไม่ให้วาง

![รูปภาพประกอบด้วย ภาพหน้าจอ

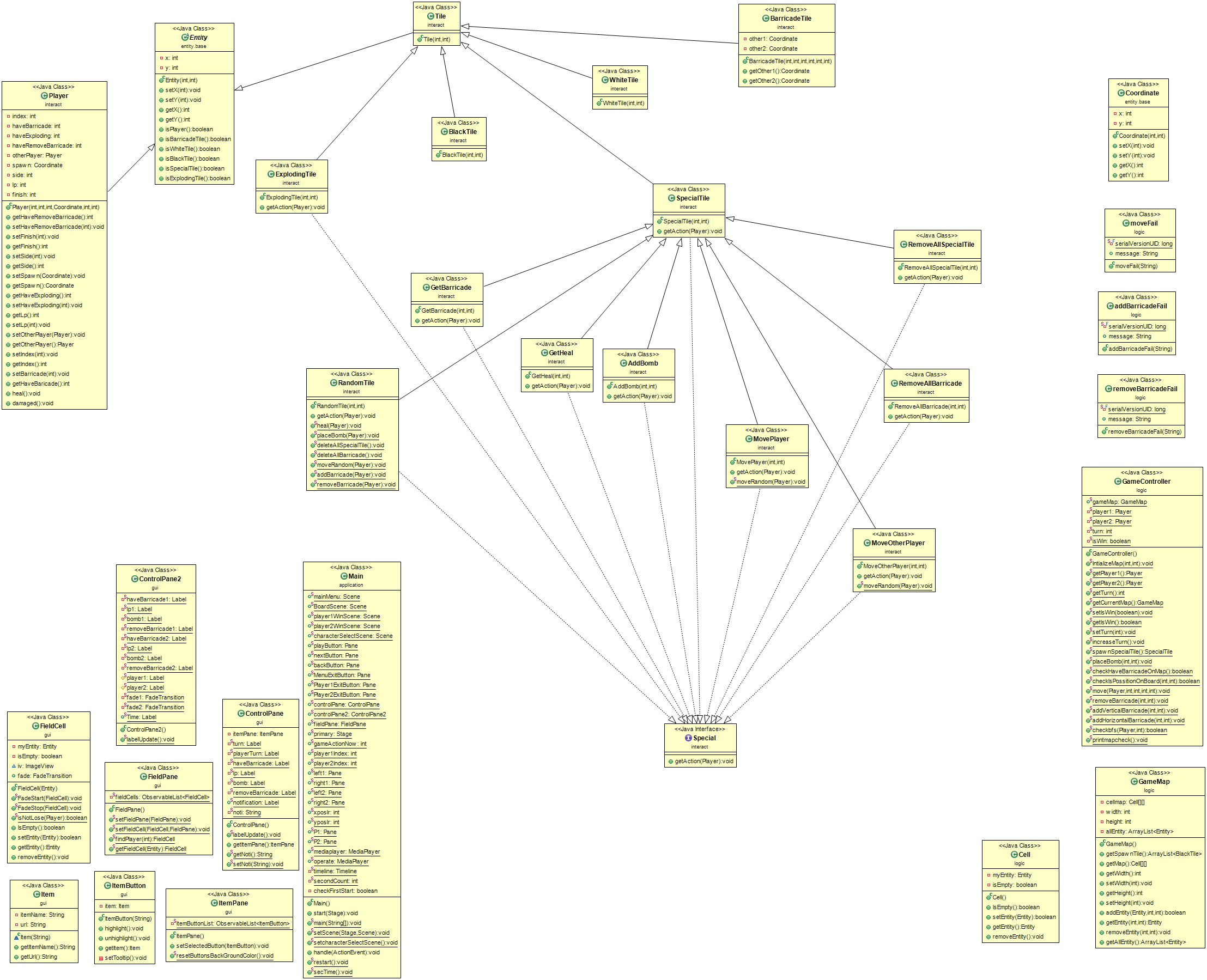
คำอธิบายที่สร้างขึ้นโดยอัตโนมัติ](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFTVVMAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMDowNToxNiAxNDo0MDoyNgAyMDIwOjA1OjE2IDE0OjQwOjI2AAAAQQBTAFUAUwAAAP/hCxdodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIwLTA1LTE2VDE0OjQwOjI2LjcwMDwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5BU1VTPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAu8FAgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZ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ถ้าวางตรงนี้ทั้งสองฝั่งจะเดินไปกลับไม่ได้ จะไม่ให้วาง

เมื่อ Player ชนะจะขึ้นหน้าแบบนี้



**UML DIAGRAM**

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**Package Overview**

* **Private**
* **Public**

**# Protected**

**Underlined Static**

1. **Package: entity.base**

สำหรับเป็น object ใน interact เพื่อให้ใช้ได้ง่ายๆ

1.1 Class: coordinate

Fields

* int x
* int y

Method

|  |  |
| --- | --- |
| + Coordinate(int x, int y) | Initialize object |
| + void setX() | ปรับค่า x |
| + void setY() | ปรับค่า y |
| + int getX() | คืนค่า x |
| + int getY() | คืนค่า y |

1.2 Abstract Class: Entity

Fields

* Int x
* Int y

Method

|  |  |
| --- | --- |
| + Entity(int x, int y) | Initialize object |
| + void setX() | set ค่า x |
| + void setY() | set ค่า y |
| + int getX() | คืนค่า x |
| + int getY() | คืนค่า y |
| + boolean isPlayer() | ตรวจสอบว่าเป็น class Player หรือไม่ |
| + boolean isBarricadeTile() | ตรวจสอบว่าเป็น class Barricade หรือไม่ |
| + boolean isWhiteTile() | ตรวจสอบว่าเป็น class WhiteTile หรือไม่ |
| + boolean isSpecialTile() | ตรวจสอบว่าเป็น class SpecialTile หรือไม่ |
| + boolean isExplodingTile() | ตรวจสอบว่าเป็น class ExplodingTile หรือไม่ |

1. **Package: interact**

2.1 Interface: Special

Method

|  |  |
| --- | --- |
| + getAction(Player e) | ทำ Action พิเศษกับ Player |

2.2 Class: Tile extends Entity

Method

|  |  |
| --- | --- |
| + Tile(int x,int y) | Initialize object |

2.3 Class: ExplodingTile extends Tile implements Special

|  |  |
| --- | --- |
| + ExplodingTile(int x,int y) | Initialize object |
| + void getAction(Player player) | -decrease 1 lp of player  -respawn player at spawn position |

2.4 Class: WhiteTile extends Tile

Method

|  |  |
| --- | --- |
| + WhiteTile(int x,int y) | Initialize object |

2.5 Class:BlackTile extends Tile

Method

|  |  |
| --- | --- |
| + BlackTile(int x,int y) | Initialize object |

2.6 Class: Player extends Entity

Fields

* Int index -> character type(there are 7 types, 1 to 7)
* Int haveBarricade
* Int haveExploding
* Int haveRemoveBarricade
* Player otherPlayer
* Coordinate spawn
* Int side -> player side(can only be 1 or 2)
* Int lp -> player lifepoint (maximum 3, dead when 0)
* Int finish -> finish position of x

Method

|  |  |
| --- | --- |
| + Player(int x,int y) | Initialize object |
| +int getHaveRemoveBarricade() | รับค่า haveRemoveBarricade |
| + void setHaveRemoveBarricade(int haveRemoveBarricade) | Set ค่า haveRemoveBarricade |
| + void setFinish() | Set finish position |
| + int getFinish | Get finish position |
| + void setSide | Set player side (can only be 1 or 2 ) |
| + int getSide | Get player side |
| + void setSpawn | Set spawn position for player |
| + Coordinate getSpawn() | Get spawn position |
| + int getHaveExploding | Get haveExploding |
| + void setHaveExploding(int haveExploding) | Set haveExploding |
| + int getLp() | Get lp |
| + void setOtherPlayer() | Set otherPlayer |
| + Player getOtherPayer() | Get otherPlayer |
| + void setIndex() | Set Index |
| + int getIndex() | Get Index |
| + void setBarricade(int haveBarricade) | Set haveBarricade |
| + int getHaveBarricade() | Get haveBarricade |
| + void heal() | Increase lp by 1 if lp if already 3 don’t increase |
| + void damaged() | Decrease lp by 1 |

2.7 Class: BarricadeTile extends Tile

Fields

* Coordinate other1
* Coordinate other2

Method

|  |  |
| --- | --- |
| + BarricadeTile(int x,int y,int X1,int Y1,int X2,int Y2) | Initialize object |
| + Coordinate getOther1() | Get other1 |
| + Coordinate getOther2() | Get other2 |

2.8 Class: SpecialTile extends Tile implements Special

Method

|  |  |
| --- | --- |
| + SpecialTile(int x,int y) | Initialize object |
| + void getAction(Player e) | This function will not be used |

2.9 Class: AddBomb extends SpecialTile implement Special

|  |  |
| --- | --- |
| + AddBomb(int x,int y) | Initialize object |
| + void getAction(Player e) | - increase 1 haveExploding of player e  -Set both ControlPane and ControlPane2 labelUpdate |

2.10 Class: GetBarricade extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + GetBarricade(int x,int y) | Initialize object |
| + void getAction(Player e) | - increase 1 haveBarricade of player e  -Set both ControlPane and ControlPane2 labelUpdate |

2.11 Class: GetHeal extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + GetHeal(int x,int y) | Initialize object |
| + void getAction(Player e) | - increase 1 lp of player e  -Set both ControlPane and ControlPane2 labelUpdate |

2.12 Class: MoveOtherPlayer extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + MoveOtherPlayer(int x,int y) | Initialize object |
| + void getAction(Player e) | - move other player randomly by using function moveRandom(Player e)  -Set both ControlPane and ControlPane2 labelUpdate |
| + void moveRandom(Player e) | Move player e in random position |

2.13 Class: MovePlayer extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + MoveOtherPlayer(int x,int y) | Initialize object |
| + void getAction(Player e) | - move player randomly by using function moveRandom(Player e)  -Set both ControlPane and ControlPane2 labelUpdate |
| + void moveRandom(Player e) | Move player e in random position |

2.14 Class: RemoveAllBarricade extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + RemoveallBarricade(int x,int y) | Initialize object |
| + void getAction(Player e) | - remove all barricade on the board  -Set both ControlPane and ControlPane2 labelUpdate |

2.15 Class: RemoveAllSpecialTile extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + RemoveallSpecial(int x,int y) | Initialize object |
| + void getAction(Player e) | - remove all SpecialTile on the board  -Set both ControlPane and ControlPane2 labelUpdate |

2.16 Class: RandomTile extends SpecialTile implement Special

Method

|  |  |
| --- | --- |
| + RandomTile (int x,int y) | Initialize object |
| + void getAction(Player e) | - randomly choose action(there are 7 actions move player, move other player, increase player barricade , increase remove player barricade, delete all specialTile on the board, delete all barricades on the board, heal player, increase player haveExploding.  -Set both ControlPane and ControlPane2 labelUpdate |

1. **Package: logic**

3.1 Class: addBarricadeFail extends exception

Fields

* final long serialVersionUID = 1L
* String message

Method

|  |  |
| --- | --- |
| public addBarricadeFail(String message) | Set string message |

3.2 Class: moveFail extends exception

Fields

* final long serialVersionUID = 1L
* String message

Method

|  |  |
| --- | --- |
| public moveFail(String message) | Set string message |

3.3 Class: removeBarricadeFail extends exception

Fields

* final long *serialVersionUID* = 1L
* String message

Method

|  |  |
| --- | --- |
| public RemoveBarricadeFail(String message) | Set string message |

3.4 Class: Cell

Fields

* Entity myEntity
* boolean isEmpty

Method

|  |  |
| --- | --- |
| + Cell() | Initialize object |
| + Boolean IsEmpty() | Get isEmpty |
| + setEntity(Entity e) | Set myEntity |
| + Entity getEntity() | Get myEntity |
| + void removeEntity() | -Set myEntity to null  -set isEmpty to true |

3.5 Class: GameMap

Fields

* Cell[][] cellmap
* Int width
* Int height
* ArrayList<Entity> allEntity

Method

|  |  |
| --- | --- |
| + GameMap() | Initialize object  -set height and row  -create all cell in cellmap |
| + ArrayList<BlackTile> getSpawnTile() | Get all blackTile that can be changed to specialtile |
| + Cell[][] getMap() | Get map |
| + int getWidth() | Get width |
| + void setWidth(int width) | Set width |
| + void getHeight() | Get height |
| + void setHeight(int height) | Set height |
| + boolean addEntity(Entity e,int x,int y) | Add entity to the map |
| + Entity getEntity(int x,int y) | Get entity at position (x,y) on the map |
| + removeEntity(int x,int y) | Remove entity at position (x,y) on the map |
| + ArrayList<Entity> getAllEntity() | Get all entity on the map |

3.6 Class: GameController

Fields

* GameMap gameMap
* Player player1
* Player player2
* Int turn
* Boolean isWin

Method

|  |  |
| --- | --- |
| + InitializeMap(int player1index,int player2index) | Initialize object |
| + Player getPlayer1() | Get player 1 |
| + Player getPlayer2() | Get player 2 |
| + int getTurn() | Get current turn |
| + GameMap getCurrentMap() | Get current map |
| + void setIsWin(Boolean stat) | Set isWin |
| + boolean getIsWin() | Get iswin |
| + void setTurn(int t) | Set turn |
| + void increaseTurn() | Increase turn |
| + SpecialTile spawnSpecialTile() | Spawn a specialtile randomly on the map(this function may or may not spawn the special. It depend on density of none blackTile on the map. Also a Specialtile won’t spawn near other Specialtiles ) |
| + void placeBomb(int x,int y) | Place bomb on the map |
| + boolean checkHaveBarricadeOnMap() | Return true if there is atleast one barricade tile on the map otherwise return false |
| + checkIsPossitionOnBoard(int x,int y) | Check if position (x,y) on the board (17\*17) |
| + void move(Player player,int posx,int posy,int x,int y) | Move player |
| + void removeBarricade(int x,int y) | Remove barricade on the map |
| + void addVerticalBarricade(int x,int y) | Place barricade vertically |
| + void addHorizontalBarricade(int x,int y) | Place barricade horizontally |
| + boolean checkbfs(Player pklayer,int finish) | Return true if player can get to the finish position and can get back to the spawn position(using breadth-first search algorithm), otherwise return false |
| + void printmapcheck() | Print map on console for checking |

1. **Package: gui**

4.1 Class: ControlPane extends VBox

Fields

* ItemPane itemPane;
* Label turn
* Label playerTurn
* Label haveBarricade
* Label lp
* Label bomb
* Label removeBarricade
* Label notification
* String noti

Method

|  |  |
| --- | --- |
| + ControlPane() | Initialize object |
| + void labelupdate() | Update all labeles |
| + ItemPane getItemPane() | Get itemPane |
| + String getNoti() | Get noti |
| + setNoti(String noti) | Set noti |

4.2 Class: ControlPane2 extends VBox

Fields

* Label haveBarricade1
* Label lp1
* Label bomb1
* Label removeBarricade1
* Label haveBarricade2
* Label lp2
* Label bomb2
* Label removeBarricade2

# Label player1

# Label player2

* FadeTransition fade1
* FadeTransition fade2
* Label Time

Method

|  |  |
| --- | --- |
| + ControlPane2() | Initialize object |
| + labelUpdate() | Update all labeles |

4.3 Class: FieldCell extends Pane

Fields

* Entity myEntity
* Boolean isEmpty
* public FadeTransition fade

Method

|  |  |
| --- | --- |
| + FieldCell(Entity entity) | Initialize object  Set image to this Pane  addHandler(Mouse Click)  - gameActionnow = 1,2,3,4,5 for each number means type of action at the current time  addHandler(Mouse enter)  - fadeTransition  addHandler(Mouse exit)  -fadeTransition |
| + void FadeStart(FieldCell now) | For set fieldcell |
| + void FadeStop(FieldCell now) | For set fieldcell |
| + boolean isNotLose(Player p) | Check if not loose |
| + boolean IsEmpty() | Check is this field empty |
| + Boolean setEntity(Entity e) | Set Entity to this field |
| + Entity getEntity() | Get myEntity |
| + void removeEntity() | Set myEntity to null  And set isEmpty to true |

4.4 Class: FieldPane

Fields

* ObservableList<FieldCell> fieldCells

|  |  |
| --- | --- |
| + FieldPane() | Initialize object |
| +void setFieldPane(FieldPane e) | Set fieldPane |
| + void set FieldCell(FieldCell e,FieldPane E) | Set fieldCell |
| +FieldCell findPlayer(int side) | Return field cell at player is in |
| + FieldCell getFieldCell(Entity E) | Return get field cell entity E currently live in |

4.5 Class: Item

Fields

* String itemName
* String url

Method

|  |  |
| --- | --- |
| Item(String itemName) | Initialize Object |
| String getItemName() | Get itemName |
| String getUrl() | Get Url |

4.6 Class: ItemButton

Fields

* Item item

|  |  |
| --- | --- |
| + ItemButton(String itemName) | Initialize object |
| + void highlight() | Highlight button to LimeGreen color |
| + void unhighlight() | Unhighlight button |
| + Item getItem() | Get Item |
| + setTooltip() | Set tool tip |

4.7 Class: ItemPane

Fields

* ObservableList<ItemButton> itemButtonList

Method

|  |  |
| --- | --- |
| + ItemPane() | Get ItemPane |
| + void setSelectedButton(ItemButton selecteditemButton) | -resetButtonBackGroundColor()  -Set selected button |
| + void resetButtonBackGroundColor() | Reset background color |

1. **Package application**

5.1 Class Main extends Application

Fields

* Scene mainMenu
* Scene BoardScene
* Scene player1WinScene
* Scene player2WinScene
* Scene characterSelectScene
* Pane playButton
* Pane nextButton
* Pane backButton
* Pane MenuExitButton
* Pane Player1ExitButton
* Pane Player2ExitButton
* ControlPane controlPane
* ControlPane2 controlPane2
* Fieldpane fieldpane
* Stage primary
* int gameActionNow = 0
* int player1Index = 4
* int player2Index = 4
* Pane left1
* Pane left2
* Pane right1
* Pane right2
* int xposlr = 120
* int yposlr = 500
* Pane P1
* Pane P2
* Mediaplayer mediaplayer
* Mediaplayer operate
* Timeline timeline
* int secondCount
* boolean checkFirstStart = False

Method

|  |  |
| --- | --- |
| * void start(Stage primaryStage) | * set mainMenuScene * set characterSelectScene * set player1WinScene * set player2WinScene * set BoardScene * set Background music |
| * void main(String[] args) | * main method |
| * void setScene(Stage primaryStage, Scene scene) | * set Title to “Quoridor” * Set scene to primaryStage * show primaryStage |
| * void setcharacterSelectScene() | * disable left2/right2 pane if player1Index/player2Index = 1/7 * load the picture of player token from selected index * set Player1/Player2 Index using gamecontroller |
| * void handle(ActionEvent event) | * set the scene into characterSelectScene if user clicked playButton |
| * void restart() | * restart the game board |
| * void secTime() | * set time frame * update time frame |