

visited: Node[][] # edges: List<Edge> # columnCount: int # rowCount: int # start: Coordinates # goal: Coordinates # randomSeed: int # random: Random # thiefPenalty: double # thiefFrequency: double # goldFrequency: double # goldAmount: int # isWrappingMaze: boolean # isRoomMaze: boolean # perfectExitCount: int # targetEdgeCount: int # exitCount: int # goldNodeCount: int # thiefNodeCount: int

PerfectMazeConfiguration

+ PerfectMazeConfiguration(rowCount. columnCount, start, goal, thiefPenalty, thiefFrequency, goldFrequency, goldAmount, isWrappingMaze, randomSeed)

RoomMazeConfiguration

+ RoomMazeConfiguration(rowCount, columnCount, start, goal, thiefPenalty, thiefFrequency, goldFrequency. goldAmount, isWrappingMaze, targetEdgeCount, randomSeed)

<<Interface>> Builder

- + setColumnCount(int count): Builder
- + setRowCount(int count): Builder
- + setStart(int column, int row): Builder
- + setGoal(int column, int row): Builder
- + setThiefPenalty(double penalty): Builder
- + setThiefFrequency(double freq): Builder
- + setGoldFrequency(double freq): Builder
- + setGoldAmount(int amt): Builder
- + setTargetEdgeCount(int count): Builder
- + setRandomSeed(int randomSeed): Builder
- + setIsWrappingMaze(boolean wrapping): Buillder

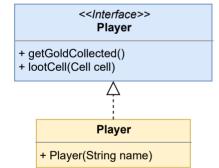
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- + setIsRoomMaze(boolean isRoom): Builder
- + build(): Maze



Maze2dBuilder

- columnCount: int
- rowCount: int
- randomSeed: int
- thiefPenalty: double
- thiefFrequency: double
- goldFrequency: double
- goldAmount: int
- isWrappingMaze: boolean
- isRoomMaze: boolean
- targetEdgeCount: int
- start: Coordinates
- goal: Coordinates



<<Interface>> Game

- + getPlayer(): Player + getMaze(): Maze
- + getPath(): Path
- + getScore(): int
- + isOver(): boolean
- + movePlayer(Direction dir): boolean
- + start(): void



MazeGame

+ MazeGame(Player p, Maze m)

