<<interface>> Dungeon +getDungeon:String +getGameBoardRows(): int +getGameBoardColumns(): int +getFinalEdgeList(): List +getGameBoard(): Cave[][] +isGameOver(): boolean +movePlayer(Direction): String +getWrapping(): boolean +shootArrow(int distance, <<interface>> Direction direction): String Location +pickUpItem(int): String <<interface>> +quitGame(): String Treasure +getTreasureList(): List +getNeighborList(): List +getArrowListSize(): int +getTreasure(): Treasure +getMonsterListSize(): int +getName(): String AbstractLocation Point2D TreasureImpl -Point2D(int row, column) -int row +Enum TreasureType: DIAMOND, SAPHIRE, -neighborList(List<Integer>) -int column RUBY #Ruby #Diamond DungeonImpl -treasureList(List<Treasure>) -arrowList(List<Treasure>) #getRow #getColumn #Sapphire -boolean: wraps -setLocation(): void -int: rows #TreasureFactory -int: columns -int: interconnect -int: treasure Cave -gameBoard [][] #TreasureFactory -#getTreasureFromEnum(TreasureType): Treasure -int: startLocation -int index -int: endLocation -List<Edge> potEdgeList -List<Edge> leftOverEdge -List<Edge> finalEdgeList -MonsterList(List<Monster>) #getRow(): int #getColumn(): int <<interface>> -Player player Player -int: difficulty #getIndex(): int -RandomNumberGenerator #getSet(): int -int: genSeed +move(int, List<Direction>, List<Treasure>): void #adjSet(int): void -boolean: quitFlag +getPlayerStatus(): void #addNeighbor(int): void #getNeighbors(): List #addTreasure(Treasure): void +enterDungeon(int, List<Direction>, List<Treasure>): void +getTreasureList(): List<Treasure> #getTreasureFromCave(): List +shootArrow(Direction, distance): void -runKruscals(): String #getArrowsFromCave(): List #addMonster(Monster): void -findCaves(List<Cave>): void -setUpPlayer(): String -getPossibleDirection(int): List<Direction> #getMonsterHealth(): int #addArrow(CrookedArrow): void #getMonster(): Monster -getStartPoint(List): String -findEndPoint(int): String
-findCaveByIndex(int): Cave Player -getPotentialEdgeList(): List<Edge> -int playerLocation -getCavesByIndex(): List<Integer> -addEdge(List<List<Integer>>, int, int): void -List treasureList -findCaves(List<Cave>):void -List directions -addMonstersToDungeon(List<Cave>): void -List currentTreasure -checkForEnd(): boolean ` -List quiver -addArrows(): void -checkSmell():int -updatePlayerLocation(int, List<Direction>, List<Treasure>): void -getOppositeDirection(Direction): Direction -updateTreasure(): void <<interface>> Monster Edge +getHealth(): int -int cave1 +takeDamage(): int -int cave2 -Direction directionToCave1 -Direction directionToCave2 CrookedArrow +getDirection(Cave, Cave) :Direction #compareSets(): boolean #getLeftSet(): int #getRightSet(): int -int distance -Direction: direction #getLeftIndex(): int Otyugh #shootArrow(int, Direction): void #addNeighbors(): void
-getDirectiontoCave1():Direction
-getDriectionToCave2(): Direction +toString(): String



