



+ buyDefense(price: int)

+ gainMoney (moneyGained : int)

+ attack([][]grid: String, anEnemy: Enemy, damage: int, xD: int, yD: int, eX: int, eY: int, range: int)

+ getDistance(otherX: int, otherY: int, defenderX: int, defenderY): int

+ enemylsWithinRange(defenderX: int, defenderY: int, eX: int, eY: int, range: int) : boolean

+ defenderSelection ([][]grid: String)



Extends

Defender

- damage: Integer

- xCoord: int

- yCoord: int

- range: int

+ coordInput: Scanner

+ Defender (name: String, [][]grid: String, aDamage: int, aRange: int)

+ getRange(): int

+ getDamage(): int

+ getXCoord(): int

+ getYCoord(): int

+ setXYCoord ([][]grid: String, damage: int, range: int)

+ placeDefense ([][]grid: String, name: String)

+ containsPath ([][]grid: String, xCoord: int, yCoord: int)

+ getYcoord(): int

+ getEnemyHealth(): int

+ healthToString (anEnemy: Enemy): String

+ generateEnemny ([][]grid: String,anEnemy: Enemy)

+ moveEnemy (aMap: Map, [][]grid: String, anEnemy: Enemy, anPlayer: Player)

+ checkEnemyCrossed ([aMap: Map, anEnemy: Enemy)

+ attack (aPlayer:Player)

+ takeDamage (damage: int)

+ checkIfDead ([][]grid: String, aPlayer: Player)

+ isOnMap ([][]grid: String)

+ removeEnemy ([][]grid: String)

+ isDead(): boolean

+ hasCrossed(): boolean