

lass			
ameState			
amediate	Method	Input	Expected Value
	inctiou inctiou	mput	Expedica value
	testGetPlayer	getPlayer() Player.getName()	"Player"
		-	
		movePlayer(Direction.WEST) movePlayer(Direction.SOUTH) movePlayer(Direction.EAST) movePlayer(Direction.EAST) movePlayer(Direction.EAST)	FALSE
	testIsGameOver	mover algorithments.	TRUE
	testGetAvailableDirectionFromPlayerPosition	getAvailableDirectionFromPlayerPosition()	"WEST"
	testGetPlayerStartLocation	getPlayer() Player.getCurrentLocation()	getPlayerStartLocation()
	testGetPlayerEndLocation	getPlayer() Player.getPlayerEndLocation()	"(3, 4)"
		Player.getPlayerStartLocation()	"(2, 2)"
		movePlayer(Direction.WEST)	"(2, 1)"
	testMovePlayer	movePlayer(Direction.SOUTH)	"(3, 1)"
	testPlayerCurrentLocation	getPlayerCurrentLocation()	"(2, 2)"
	testInterconnectivity	getDungeon()	getNeighbours().size()
	testTreasureInRightLocation	getDungeon() Dungeon.isCave() Dungeon.getTreaure	TRUE
	testTreasurePercentage	getDungeon() Dungeon.isCave() Dungeon.getTreaure	
	testPlayerTravelStatus	movePlayer(Direction.WEST) movePlayer(Direction.SOUTH)	"(2, 2), (2, 1), (3, 1)"
	testPlayerPickingTreasure	movePlayer(Direction.WEST) movePlayer(Direction.SOUTH) movePlayer(Direction.EAST) movePlayer(Direction.EAST) movePlayer(Direction.EAST)	"(2, 2) (2, 1) (3, 1), (3, 2) (3, 3) (3, 4)"
	testTreasureNullAfterPicking	getDungeon() locationInfo() movePlayer(Direction.WEST) movePlayer(Direction.SOUTH) movePlayer(Direction.WEST) movePlayer(Direction.NORTH) Player.travelStatus()	"(2, 2) (2, 1, (3, 1) (3, 0) (2, 0)"
	testIllegalMove	movePlayer(Direction.NORTH)	IllegalArgumentException
	testDungeonCreation	getDungeon() getNeighbours().size()	
	testPathLength	getPlayerStartLocation() getPlayerEndLocation()	distance = getPlayerStartLocation() - getPlayerEndLocation() distance >= 5

meTestWrapping			
	testGameStateWrapping	GameState(-10, -10, -1, "wrapping", 20, null)	IllegalArgumentException
	testGetPlayer	GameState.getPlayer().getName()	"Player"
		GameState.isGameOver()	FALSE
	testlsGameOver	GameState.movePlayer(Direction.NORTH); GameState.movePlayer(Direction.NORTH); GameState.movePlayer(Direction.NORTH); GameState.movePlayer(Direction.NORTH); GameState.movePlayer(Direction.EAST); GameState.movePlayer(Direction.EAST); GameState.movePlayer(Direction.EAST);	TRUE
		GameState.getAvailableDirectionsFromPlayerPosition().toString()	"[SOUTH, EAST, WEST]"
	testGetAvailableDirectionsFromPlayerPosition	GameState.getAvailableDirectionsFromPlayerPosition().size()	3
	testGetPlayerStartLocation	GameState.getPlayerStartLocation().toString()	"(2, 4)"
	testGetPlayerEndLocation	GameState.getPlayerEndLocation().toString()	"(4, 7)"
		GameState.getDungeon() GameState.getPlayer().getCurrentLocation().toString()	"(2, 4)"
		GameState.movePlayer(Direction.EAST) GameState.getPlayer().getCurrentLocation().toString()	"(2, 5)"
	toetMovoDlover	GameState.movePlayer(Direction.NORTH) GameState.movePlayer(Direction.NORTH) GameState.movePlayer(Direction.EAST) GameState.movePlayer(Direction.NORTH)	"(9, 6)"
	testMovePlayer	GameState.getPlayer().getCurrentLocation().toString() GameState.getDungeon()	
	TestTreasureInRightLocation	isCave() getTreasure()	TRUE
	testToStringTravelStatus	GameState.getDungeon() isCave() getTreasure() toStringPlayerTravelStatus()	"Player has traveled to the following locations: [(2, 4)].\n" + "Treasures: {}"
	testPlayerPickingTreasure	GameState.movePlayer(Direction.EAST); GameState.movePlayer(Direction.EAST); GameState.movePlayer(Direction.SOUTH); GameState.movePlayer(Direction.SOUTH); GameState.movePlayer(Direction.WEST); GameState.movePlayer(Direction.WEST); GameState.movePlayer(Direction.SOUTH); GameState.movePlayer(Direction.EAST); GameState.movePlayer(Direction.EAST); toStringPlayerTravelStatus()	"Player has traveled to the following locations: [(2, 4) (2, 5) (2, 6) " + "(3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (5, 5) (5, 6)].\n" + "Treasures: {DIAMONDS=14, RUBIES=9, SAPPHIRES=15}"
		GameState.movePlayer(Direction.EAST) GameState.movePlayer(Direction.EAST) GameState.movePlayer(Direction.SOUTH) printPlayerTravelStatus()	"Player has traveled to the following locations: [(2, 4) (2, 5) " + "(2, 6) (3, 6)].\n" + Treasures: {DIAMONDS=7, RUBIES=2, SAPPHIRES=9}" Player has traveled to the following locations: [(2, 4) (2, 5) " +
	testTreasureNullAfterPick	movePlayer(Direction.WEST) movePlayer(Direction.EAST) printPlayerTravelStatus()	"(2, 6) (3, 6) (3, 5) (3, 6)].\n" + "Treasures: {DIAMONDS=7, RUBIES=2, SAPPHIRES=9}"
	testillegalMove	movePlayer(Direction.NORTH)	IllegalArgumentException
	testPathLength	getPlayerStartLocation() getPlayerEndLocation()	distance = getPlayerStartLocation() - getPlayerEndLocation() distance >= 5

		GameState(6, 10, 1000, "wrapping", 20, random) getAvailableDirectionsFromPlayerPosition().toString()	"[SOUTH, WEST, EAST, NORTH]"
		movePlayer(Direction.NORTH) getPlayerCurrentLocation().toString()	"(3, 8)"
		getAvailableDirectionsFromPlayerPosition().toString()	"[EAST, WEST, SOUTH, NORTH]"
		movePlayer(Direction.SOUTH) getPlayerCurrentLocation().toString()	"(4, 8)"
		getAvailableDirectionsFromPlayerPosition().toString()	"[WEST, EAST, SOUTH, NORTH]"
		movePlayer(Direction.EAST) getPlayerCurrentLocation().toString()	"(4, 9)"
		get Available Directions From Player Position (). to String ()	"[WEST, EAST, SOUTH, NORTH]"
	tootDloverMeyements AllDirections	movePlayer(Direction.WEST) getPlayerCurrentLocation().toString()	"(4, 8)"
	testPlayerMovementsAllDirections		
Location			
	testIncorrectLocation	new Location()	IllegalArgumentException
	testGetName	getName()	"(0, 0)"
	testGetRowCoordinate	getRowCoordinate()	0
	testGetColCoordinate	getColCoordinate()	0
	testJoinLocationToNorthDirection	Location.joinLocationToNorthDirection(Location()) Location.getNeighbours().get(Direction.NORTH)	Location(0, 2, rand)
	testJoinLocationToSouthDirection	Location.joinLocationToSouthDirection(Location()) Location.getNeighbours().get(Direction.SOUTH)	Location(1, 2, rand)
	testJoinLocationToEastDirection	Location.joinLocationToEastDirection(Location()) Location.getNeighbours().get(Direction.EAST)	Location(1, 2, rand)
	testJoinLocationToWestDirection	Location.joinLocationToWestDirection(Location()) Location.getNeighbours().get(Direction.WEST)	Location(1, 2, rand)
	testIsCave	Location.joinLocationToNorthDirection(Location()) Location.joinLocationToSouthDirection(Location()) Location.joinLocationToEastDirection(Location()) Location.joinLocationToWestDirection(Location()) Location.isCave()	TRUE
	testSetTreasure	Location.joinLocationToNorthDirection(Location()) Location.joinLocationToSouthDirection(Location()) Location.joinLocationToEastDirection(Location()) Location.joinLocationToWestDirection(Location()) Location.setTreasure()	null
	testSetTreasureInTunnel	Location.joinLocationToNorthDirection(Location()) Location.joinLocationToSouthDirection(Location()) Location.setTreasure()	null
	testGetTreasure	Location.joinLocationToNorthDirection(Location()) Location.joinLocationToSouthDirection(Location()) Location.joinLocationToEastDirection(Location()) Location.joinLocationToWestDirection(Location()) Location.setTreasure() Location.getTreasure()	"{SAPPHIRES=4, RUBIES=8, DIAMONDS=9}"
	•	•	

	testGetNeighbours testLocationInfo	Location.joinLocationToNorthDirection(Location()) Location.joinLocationToSouthDirection(Location()) Location.joinLocationToEastDirection(Location()) Location.joinLocationToWestDirection(Location()) Location.getNeighbours().size() Location.getNeighbours().get(Direction.NORTH) Location.getNeighbours().get(Direction.SOUTH) Location.joinLocationToNorthDirection(Location()) Location.setTreasure() Location.LocationInfo()	4 Location(0, 2, rand) Location(2, 2, rand) "(0, 0), treasure: {SAPPHIRES=4, RUBIES=8, DIAMONDS=9}, " + "neighbours: {NORTH=(0, 2)}"
	testeocationino	Eccation.Eccationimo()	rieigribours. {NORTH=(0, 2)}
Character			
	testPlayerNull	Player(null)	IllegalArgumentException
	testGetName	Player.getName()	"Player"
	testaddTreasure	Treasure.getTreasure()	
	testGetTreasure	Player.getTreasures()	
	testAddTwoTreasures	Player.addTreasure(Treasure) Player.addTreasure(Treasure)	
	testGetCurrentLocation	Player.setCurrentLocation(Location(0, 0, random))	Location(0, 0, random))
	testGetCurrentLocationEmpty	Player.getCurrentLocation()	null
	testSetCurrentLocation	Player.getCurrentLocation()	Player.setCurrentLocation(Location(0, 0, random))
	testMovePlayer	Player.getCurrentLocation() Player.getCurrentLocation()	Player.setCurrentLocation(Location(0, 0, random)) Player.setCurrentLocation(Location(0, 1, random))
	testTravelStatus	Player.setCurrentLocation(Location(0, 0, random)) Player.setCurrentLocation(Location(1, 0, random)) Player.setCurrentLocation(Location(2, 0, random)) Player.toStringTravelStatus()	"Player has traveled to the following locations: [(0, 0) (1, 0) (2, 0)].\n" + "Treasures: {}"
	testTravelStatus	getDungeon() locationInfo() movePlayer(Direction.WEST) movePlayer(Direction.SOUTH) movePlayer(Direction.WEST) movePlayer(Direction.NORTH) Player.toStringTravelStatus()	"Player has traveled to the following locations: [].\n" + "Treasures: {}"
Treasure			
	testIncorrectTreasure testGetTreasure	Treasure(null)	IllegalArgumentException
	lesiderreasure	Treasure.getTreasure()	expected.put(TreasureType.DIAMONDS, 1);