model Videogame - PLAYERS\_SIZE=21 - LEVELS\_SIZE =21 -levels[] : array -players[] :array +addPlayer(idPlayer, namePlayer): String +searchEmptyPosPlayer() : int +levelImposibleToAdd(numberLevel) : boolean 3...21 Player +addLevel(numberLevel, requiredScore) : String - id : String +validateIfLevelExist(numberLevel) : int - nickname : String +validateIfPlayerExist(namePlayer) : int - score : int - numberLives : int +addTreasureToLevel(numberLevel,selectionType, url, score): String - LevelPlayer: int +validateIfEnemyExist(numberLevel, enemyId): boolean +Player(id, nickname, initialScore, +addEnemyToLevel(id, selectionType, scorelfWin, scorelfLose): String numberLives, levelPlayer) +get\*:():\* +setPlayerScore(namePlayer: String, newScorePlayer: int): String +set\*:()\* +searchPlayerLevel(namePlayer): int +levelUpPlayer(namePlayer): String +showLevelInfo(numberLevel): String +countTreasuresInGame(selectionTypeTresure): String +countEnemiesInGame(selectionTypeEnemy): String +showMostRepeatenTreasure(): String +showMostValuableEnemyInGame(): String +showConsonantsEnemy(selctionTypeEnemy): String +ordenatePlayersInGame(): [] Players +showTop5BestScores(): String Enemy -id : String 10...21 4...10 -selectionType : int Level <<enumeration>> -typeEnemy : TypeEnemy TypeEnemy -TREASURE\_SIZE : 10 OGRE ABSTRACT -scoreIfWin : int -ENEMY\_SIZE: 10 BOSS MAGICIAN -treasures[] : array -scorelfLose : int -enemys[] : array -positionX: double -number : int -positionY: double -requiredScore : int -difficulty: String +Enemy(id, selectionType,scoreifWin, scorelfLose, positionX, positionY) +get\*():\* +Level(number, requiredScore, dificulty) +set\*():\* +get\*():\* +set\*():\* +addTreasureWithObject(treasure): String +addEnemyWithObject(enemy): String +validateIfEnemyAlreadyExist(idEnemy): boolean +showLevelInfo(): String Treasure -selectionType: int +showOnlyEnemy(): String -typeTreasure: int +showOnlyTreasures(): String -url: String +countTreasuresByType(selectionType): int <<enumeration>> TypeTreasure -score: int :-----Use------+countEnemyByType(typeEnemy): int DIAMOND ESMERALD -quantyOfTreasure: int +searchMostRepeatenTreasure(): String RUBY GOLD -positionX: double +countDiamondsInLevel(): int 4...10 -positionY: double +countEsmeraldsInLevel(): int +countRubiesInLevel(): int +Treasure(selectionType, url, score, quantyOfTreasure, positionX, positionY) +countGoldsInLevel(): int +get\*():\* +showScoreMostValuableEnemy(): int +set\*():\* +showTypeMostValuableEnemy(): int + convertTypeEnemytoString(selectionType): String+countConsonantsEnemy(): int

Main

-videogame: Videogame

+main(String[] args): void

+showMenu(option): int

-reader: Scanner

+getOption(): int