## ProgrammaArnaldo 2021 - Esercizio 3





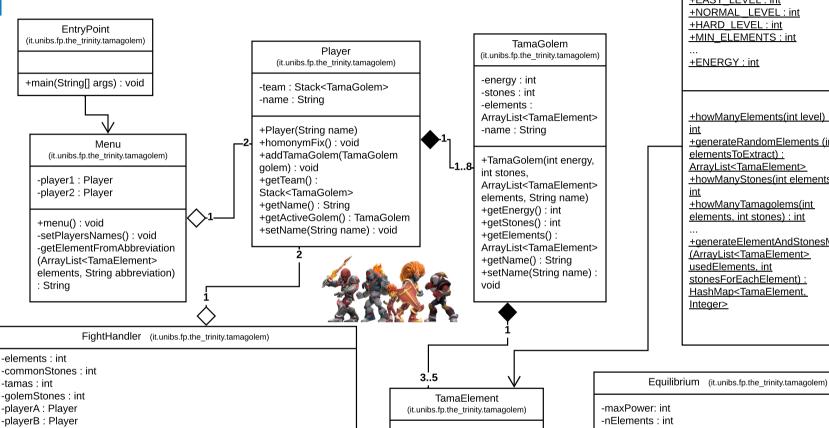
FightUtils (it.unibs.fp.the\_trinity.tamagolem)

+EASY LEVEL: int +NORMAL LEVEL: int +HARD LEVEL : int +MIN ELEMENTS: int

+ENERGY: int



Interface



+howManyElements(int level): +generateRandomElements (int elementsToExtract): ArrayList<TamaElement> +howManyStones(int elements): +howManyTamagolems(int elements, int stones): int +generateElementAndStonesMap (ArrayList<TamaElement> usedElements, int stonesForEachElement):

HashMap<TamaElement,

Integer>

-usedElements : ArrayList<TamaElement> -numberOfElementAndStones: HashMap<TamaElement, Integer> +FightHandler(int matchLevel, Player playerA, Plater playerB) +LetThemFight(): void -addTamaGolems(): void +getElements(): int +getCommonStones(): int +getTamas(): int +getGolemStones(): int +getPlayerA(): Player +getPlaverB(): Plaver +getUsedElements(): ArrayList<TamaElement> +getNumberOfElementAndStones(): HashMap<TamaElement, Integer>

-nElements: int -matrix : int∏∏ +TamaElement: enum -abbreviation : String +IF LOWER: int +EACH CASE: int -index : int +IF HIGHER: int +TamaElement(String abbreviation, int index)

+containsAbbreviation(String

abbreviation): boolean

+getIndex : int

+getAbbreviation(): String

- +Equilibrium(int maxPower, int nElements)
- -generateMatrix(): void
- -randomInteger(int min, int max, int... exclude)
- -swapCells(int rowA, int colA, int rowB, int colB, int CONDITION)
- +getEquilibriumMatrix(): int∏∏
- +getnElements(): int
- +calculateInteraction(TamaElement a, TamaElement b): int