```
- identifier : int
 gameBlock: int
 gameType: int
 gameStages: int
 totalDiamonds: int

    virusMode : bool

                                                                                            Board
userFileNames : vector <string>
                                                  level: int
boards : vector <Board>
                                                - identifier : int

    player : Player

                                                - boardName : string
+ gameCount : static int

    n : int

+ addBoard(in : int, in : string) : void
                                                - m:int
                                          1..*
+ Game()
                                                - rowOrigin : int
+ displayGame(): void
                                                - colOrigin : int
+ loadRandomBoards(): void
                                                - infoBoxIdent : int
+ getPlayerInfo(): void
                                                - availableDiamonds : int
+ run(): void
                                                  availableMonsters: int
+ loadUserBoards(): void
                                                  availablePowerups : int
+ ~Game()
                                                  availableDoors : int
                                                - availableWalls : int
                                                  virusModeBoard: bool
                                                - helpShown : bool
                                                  matrix: Element
                                                  monsters: vector < Monster>
                                                + boardCount : static int
                                                + Board()
                                                + Board(in identifier : int)
                                                + displayBoard(): void
                1
                                                + positionObjects(): void
                Player
                                                + readBoard(in level : int, in filename : string) : void
                                                + createTheMatrix(in level : int, in filename : string) : void
    nDiamonds: int
                                                + openDoor(): bool
    nPowers : int
                                                + validateMovement(in : int, in : int, in : char, in : bool, in : bool, in : Player, in : int) : void
    nLives: int
                                                + getBoardName(): string
    name: string
    playerCount : static int
                                                + getNumberDiamonds(): string
                                                + play(in &player : Player) : string
  + Player()
                                                + getBoardLevel(): int
  + Diamonds(): int
                                                + getNumberDiamonds(): int
  + Powerups(): int
                                                + virusMonsters(in emptyRows : int, in emptyCols : int) : void
  + Lives(): int
                                                + moveMonsters(): void
  + incrementDiamonds(): void
                                                + clearMonsters(): void
  + incrementPowerups(): void
                                                + switchVirusMode(): void
  + incrementLives(): void
                                                + creator(): void
  + decrementDiamonds(): void
                                                  ~Board()
  + decrementPowerups(): void
  + decrementLives(): void
                                                                                             1..*
  + liveBoost(in boost : int) : void
                                                                                             1..*
  + getName(): string
  + updateName(in : string) : string
                                                                                              Element
                                                                  - idtag : int
                                                                  + xcoord : int
                                                                  + ycoord : int
                          Monster
                                                                  - type: string
 + updateMonsterCoords(in : int, in : int) : void
                                                                  + symbol : char
  + getMonsterY(): int
                                                                  + objectCount : static int
  + Monster()
                                                                + deletedCount : static int
  + Monster(in : int, in : int, in : string, in : char)
                                                                  + Element()
 + getMonsterX(): int
                                                                  + Element(in id : int, in x : int, in y : int, in t : string, in s : char)
 + getSymbol(): char
                                                                  + showElement(): void
  + ~Monster()
                                                                  + updateSymbol(in newS : char) : void
                                                                  + updateElement(in x : int, in y : int, in t : string, in s : char) : void
                                                                  + getSymbol(): char
                                                                  + ~Element()
```

Game