

Main

+ main(args: String[]): void

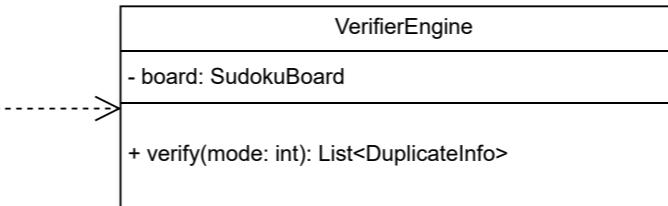
create

SudokuVerifier

- board: SudokuBoard
 - mode: int

+ runValidation(): void
 - printDuplicates(dups: List<DuplicateInfo>, type: RegionType): void

Use



VerifierEngine

+ verify(mode: int): List<DuplicateInfo>

Use

DuplicateInfo

- regionType: RegionType
 - index: int
 - value: int
 - positions: int[]

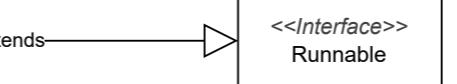
Use

Use

Use

<<Interface>> Validator

+ run(): void
 + validate(): void

<<Interface>>
Runnable

Use

<<enumeration>> RegionType

ROW
 COL
 BOX

RowValidator

- board: SudokuBoard
 - dups: List<DuplicateInfo>
 - row: int
 + run(): void
 + validate(): void

ColValidator

- board: SudokuBoard
 - dups: List<DuplicateInfo>
 - col: int
 + run(): void
 + validate(): void

BoxValidator

- board: SudokuBoard
 - dups: List<DuplicateInfo>
 - boxIndex: int
 + run(): void
 + validate(): void

creates

ValidatorFactory

+ createRowValidator(board: SudokuBoard, dups: List<DuplicateInfo>, index: int): Validator
 + createColValidator(board: SudokuBoard, dups: List<DuplicateInfo>, index: int): Validator
 + createBoxValidator(board: SudokuBoard, dups: List<DuplicateInfo>, index: int): Validator

SudokuBoard

- grid: int[][]
 + getGrid(): int[][]