Robot

- safetyMargin: int

- batteryLevel: int

- orderstatus: Boolean

- uid: String

- lastNum: int

- getBatteryLevel(): int

- decreaseBatteryLevel(): void

- orderDecision: Boolean

- needsCharging(): Boolean

- move(): void

- pickUpItems: void

- dropOrder(): void

+ getRobotX: int

+ getRobotY: int

+ getShelfX: int

+ getShelfY: int

+ getPackingX: int

+ getPackingY: int

PathFindingStrategy

+ aStarAlgo(): void

+ executeAStar(): void

CostEstimationStrategy

- startPoint: Point

- endPonit: Point

+ distanceCalculator: double

+ totalDistanceEstimator: double