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DATE: November 04, 2024

## **Drawable Shape**

#### Drawable Shape

- centerX: intcenterY: intcolor: String
- + DrawableShape()
- + DrawableShape(centerX: int, centerY: int, color: String)
- + getCenterX(): int
- + setCenterX(x: int): void
- + getCenterY(): int
- + setCenterY(y: int): void
- + getColor(): String
- + setColor(color: String): void
- + draw( ): void
- + moveAxis(centerX: int, centerY: int): void

### Square

- sideLength: int
- + Square()
- + Square(sideLength: int)
- + getSideLength(): int
- + setSideLength(sideLength: int): void
- + calculatePerimeter(): void
- + calculateArea(): void
- + drawSquare(): void



# Patient-Billing Person - name: String - centerX: int - centerY: int - color: String + Person() + Person(initialName: String) + getName(): String + setName(newName: String): void + hasSameName(otherPerson Person) + getCenterY(): int + getColor( ): String + draw(): void + moveAxis(centerX: int, centerY: int): void + writeOutput(): void Doctor - specialty: String - officeVisitFee: double + Doctor() + Doctor(name: String, specialty: String, officeVisitFee: double) + getSpecialty(): String + setSpecialty(specialty: String): void + getOfficeVisitFee( ): double + setOfficeVisitFee(officeVisitFee: double): void + isEqual(otherDoctor: Doctor): boolean Billing - patient: Patient - doctor: Doctor + Billing() + Billing(doctor: Doctor, patient: Patient) + getPatient(): Patient + setPatient(patient: Patient): void + getDoctor(): Doctor + setDoctor(doctor: Doctor): void + getTotalIncome(): double + setTotalIncome(income: double): void + calculateTotalIncome(): double + isEqual(otherBilling: Billing): boolean + writeOutput(): void Patient - number: String + Patient() + Patient(name: String, number: String) + getNumber(): String + setNumber(number: String): void

+ isEqual(otherPatient: Patient): boolean