Employee (interface)
- amountDue() : Integer
- amountDue(int) : Integer

AbstractEmployee (class)
- NEGATIVE_OVERTIME_MSG : String
- rate : Integer
- hours : Integer
- AbstractEmployee(Integer, Integer)
- getRate() : Integer
- getHours() : Integer
- equals(Object) : boolean
- hashCode() : int
- amountDue() : Integer
- amountDue(int) : Integer

IManagement (interface)
- DISMISS_MSG : String
- dismiss() : void

IWorker (interface)
- COMPLAIN_MSG : String
- complain() : void

Management (class)
- subordinates : Integer
- subordinateCost : Integer
- Management(Integer, Integer, Integer, Integer)
- Management(Integer, Integer, Integer)
- getSubordinateCost() : Integer
- getSubordinates() : Integer
- amountDue() : Integer
- dismiss() : void

Worker (class)
- Worker(Integer, Integer)
- complain() : void

IllegalOvertimeException
- IllegalOvertimeException(String)

Supervisor (class)
- COMPENSATION_PER_EACH_WAREHOUSEWORKER : int
- Supervisor(Integer, Integer, Integer)

Dispatcher (class)
- COMPENSATION_PER_DRIVER : Integer
- Dispatcher(Integer, Integer, Integer)

Manager (class)
- COMPENSATION_PER_EACH_CASHIER : Integer
- Manager(Integer, Integer, Integer)

Cashier (class)
- Cashier(Integer, Integer)

WarehouseWorker (class)
- ALLOWED_OVERTIME : int
- OVERTIME_NOT_ALLOWED_MSG : String
- WarehouseWorker(Integer, Integer)
- amountDue(int) : Integer

Driver (class)
- OVERTIME_NOT_ALLOWED_MSG : Strin
- Driver(Integer, Integer)
- amountDue(int) : Intege

Class AbstractEmployee:

Integer amountDue() ： Pre-condition: hours and rate are non-negative.

Post-condition: return value is non-negative.

Integer amountDue(int overtimeHours) : Pre-condition: overtime hours are non-negative.

Post-codition: return value is non-negative.

class: Management

- Class Supervisor: LSP holds. No methods violate the contract with base class. Neither Preconditions are strengthened, nor Postconditions are weakened.

- Class Dispatcher: LSP holds. No methods violate the contract with base class. Neither Preconditions are strengthened, nor Postconditions are weakened.

- Class Management: LSP holds. No methods violate the contract with base class. Neither Preconditions are strengthened, nor Postconditions are weakened.

class: Worker

- Class Cashier: LSP holds. No methods violate the contract with base class.

- Class WarehouseWorker: Violates LSP. In amountDue(int overtimeHours) function, when overtime hours is more than maximum overtime allowed, an exception will be thrown. Preconditions are strengthened.

- Class Driver: Violates LSP. amountDue(int overtimeHours) method will throw an illegal overtime exception.