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F25 CIS D035A 11Y, 622 Java

Assignment 6

Due Date: Dec 4th

Submitted: Dec 4th

Class Diagram

exception Package

Student Grading Exception
- int errorNo
- String errorMessage
+ logMessage () → void
+ fixMissingFile() → String
+ getErrorNo () → int

Exception

↑ extends

Contains

util package

FileIO
+ read File (String, Student[])
+ serialize Student Grade (StuGrade, Str)
+ deserialize Student Grade (String)

Throws Exception

Uses

Uses Serializes

Model Package

∨ S Student
- int SID
- int[] scores
+ getSID() → int
+ getScores () → int[]
+ setSID (int) → void
+ setScore (int, int) → void
+ print() → void
+ Student()
+ Student (int, int[])

Student Grade
- Student student
- Statistics statistics
+ StudentGrade (Student, stud)
+ printGradeReport ()

Contains

Statistics
- int[] low scores
- int[] high scores
- float[] avg scores
+ find low (Student[])
+ find high (Student[])
+ find avg (Student[])
+ print (int) → void

Contains

Serializable

Contains ↗ ↗ extends

Uses

Contains

driver package

Driver 1
+ static void main()
+ Driver1

(Uses)

Contains Uses

Driver 2
+ static void main()
+ Driver2

Contains Uses

Driver 3
+ static void main ()
+ Driver 3

Uses

Uses

adapter package

Student API Impl
- Student[] students
- Statistics stats
+ Student API Impl () → void
+ print Statistics () → void
+ printScore (int) → void

Uses

Student API
(interface)
+ print Statistics () → void
+ printScore (int) → void

Realization
(Implements)