

Sorts

Instance Variables

+ Object[][] array

Methods

+ mergeSort()
+ sortAlphabetically()
+ sortNumerically()

Stats

Instance Variables

+ Object[][] array

Methods

+ min()
+ max()
+ mode()
+ stanDev()
+ mean()
+ median()

Searches

Instance Variables

+ Object[][] array

+ Object inputValue

Methods

+ searchArray(Object
inputValue)

Woo

Main Method

Assignment

Instance Variables

+ String name
+ int grade

Methods

+ toString()

Test

Instance Variables

+ String name
+ int grade

Methods

+ test()
+ tes(String name)
+ test(String name, int grade)
+ toString()

Quiz

Instance Variables

+ String name
+ int grade

Methods

+ quiz()
+ quiz(String name)
+ quiz(String name, int grade)
+ toString()

Homework

Instance Variables

+ String name
+ int grade

Methods

+ homework()
+ homework(String name)
+ homework(String name, int
grade)
+ toString()

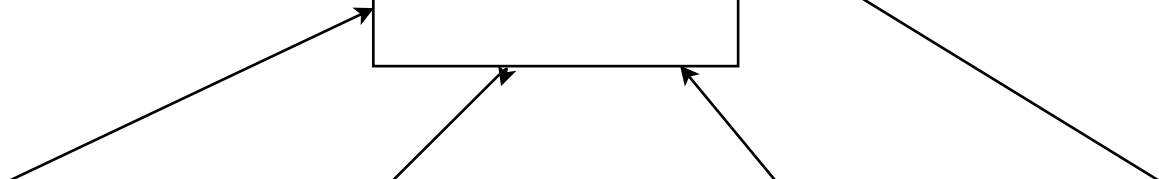
Project

Instance Variables

+ String name
+ int grade

Methods

+ project()
+ project(String name)
+ project(String name, int grade)
+ toString()



Login

Interface

Student

Instance Variables

- + String firstName
- + String middleInitial
- + String lastName
- + int studentID
- + String sex
- + int birthMonth //two digits
- + int birthDate //two digits
- + int birthYear //four digits
- + int graduatingYear //four digits
- + String email
- String password

Methods

- + printClassGrades(String className) //prints a 2D arrayList of all assignments and grades for a single class
- + printAssignments(String sortingType) //assignments sorted alphabetically, lo-hi, hi-lo
- + desiredAverageCalculator(float average) // student inputs a desired average and the next test grade the student must get is returned
- + assignmentComment(String assignmentName, String message)
- + logout()

Teacher

Instance Variables

- + String firstName
- + String lastName
- + String email
- String password
- + String StudentSortType
- + String ClassSortType

Methods

- + newClass()
- + printClasses(String ClassSortType)
- + printStudents(String StudentSortType)
- + newAssignment(String assignmentName) // makes a new column in the 2D array of grades
- + gradeAssignment(Object[] student, Object[] assignment, float grade)
- + classStats(String assignment, String statType) // returns a mean, histogram, etc.
- + assignmentComment(String studentFirstName, String studentLastNamre, String assignmentName, String message)
- + logout()

Parent

Instance Variables

- + String childFirstName
- + String childLastName
- + String childStudentID
- + String firstName
- + String lastName
- + String email
- String password

Methods

- + printGrades() //prints a 2D arrayList of all assignments and grades
- + logout() //logs out of account