

```
class Student {
   name <String>
   id <String>
   score <Score>
class Score {
    scores <Map> {subject => grade}
    getTotalScore(){
    input: none
    output: <Number> (total scores)
   }
    getAverage(){
   input: none
    output: <Number> (average)
   }
class Scoresheet {
    students <Set> {Student} (students whose scores need to be printed)
    allStudents <Map> {id => Student} (all input students)
    scoresheetTitle <String>
    appendStudent(){
    input: <Student>
    output: none
    }
    getStudentTotalScores(){
    input: none
    output: <Array> (all students' total scores)
    getAverage(){
    input: none
    output: <Number> (the average of all students' total score)
   }
    getMedian(){
    input: none
    output: <Number> (the median of all students' total score)
    printScoreSheet(){
    input: none
    output: <String> (the scores of selected students)
    }
```

```
function inInputValid(){
    input: <String> ('name, id, subject: grade,...')
    output: <Boolean>
}

function isStudentIdValid(){
    input: <String> ('id1, id1, id3,...')
    output: <Boolean>
}

function addScores(){
    input: <String> ('name, id, subject: grade,...')
    output: <String> (student's name)
}

function showHints(){
    input: <String> (prompt)
    output: <String> (user's input according to the prompt)
}

function printScores(){
    input: <String> ('id1, id1, id3,...')
    output: none
}
```