# CSC251 Project Gradebook Application Sample Execution

The following is a sample execution of a solution that uses each menu item at least once. It’s very, very long, mostly because Course.toString prints its roster with assignments. Doing that is fine for debugging with with few and small courses, but once those components of your program are working, I recommend modifying toString to remove the roster. Doing this will not affect your grade.

User input is ***like this***.

## Sample Execution

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***0***

What's the department? ***CSC***

What's the course number? ***151***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***0***

What's the department? ***DBA***

What's the course number? ***120***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***0***

What's the department? ***CSC***

What's the course number? ***251***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***1***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={}]

[1] Course [department=DBA, courseNumber=120, roster={}]

[2] Course [department=CSC, courseNumber=251, roster={}]

***1***

How many students? ***45***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***1***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={}]

[1] Course [department=DBA, courseNumber=120, roster={129=[], 130=[], 131=[], 133=[], 197=[], 136=[], 138=[], 139=[], 140=[], 141=[], 146=[], 149=[], 156=[], 157=[], 159=[], 161=[], 163=[], 100=[], 164=[], 103=[], 168=[], 169=[], 171=[], 107=[], 172=[], 174=[], 112=[], 114=[], 115=[], 118=[], 183=[], 119=[], 184=[], 122=[], 188=[], 124=[], 125=[], 126=[]}]

***Note that displaying the roster as part of Course.toString is not required. I recommend using it only for small debugging runs, and removing it thereafter.***

[2] Course [department=CSC, courseNumber=251, roster={}]

***2***

How many students? ***35***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***1***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={}]

[1] Course [department=DBA, courseNumber=120, roster={129=[], 130=[], 131=[], 133=[], 197=[], 136=[], 138=[], 139=[], 140=[], 141=[], 146=[], 149=[], 156=[], 157=[], 159=[], 161=[], 163=[], 100=[], 164=[], 103=[], 168=[], 169=[], 171=[], 107=[], 172=[], 174=[], 112=[], 114=[], 115=[], 118=[], 183=[], 119=[], 184=[], 122=[], 188=[], 124=[], 125=[], 126=[]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[], 129=[], 194=[], 195=[], 131=[], 132=[], 133=[], 134=[], 198=[], 138=[], 140=[], 141=[], 144=[], 145=[], 146=[], 149=[], 163=[], 101=[], 103=[], 104=[], 168=[], 170=[], 173=[], 115=[], 116=[], 181=[], 184=[], 122=[], 187=[], 188=[], 189=[], 190=[]}]

***0***

How many students? ***75***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***2***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={130=[], 131=[], 132=[], 134=[], 136=[], 138=[], 141=[], 145=[], 146=[], 154=[], 155=[], 157=[], 158=[], 159=[], 163=[], 164=[], 165=[], 166=[], 168=[], 170=[], 172=[], 174=[], 176=[], 177=[], 178=[], 179=[], 183=[], 185=[], 188=[], 193=[], 195=[], 197=[], 199=[], 101=[], 102=[], 103=[], 105=[], 109=[], 110=[], 111=[], 112=[], 115=[], 116=[], 118=[], 119=[], 120=[], 125=[], 126=[], 127=[]}]

[1] Course [department=DBA, courseNumber=120, roster={129=[], 130=[], 131=[], 133=[], 197=[], 136=[], 138=[], 139=[], 140=[], 141=[], 146=[], 149=[], 156=[], 157=[], 159=[], 161=[], 163=[], 100=[], 164=[], 103=[], 168=[], 169=[], 171=[], 107=[], 172=[], 174=[], 112=[], 114=[], 115=[], 118=[], 183=[], 119=[], 184=[], 122=[], 188=[], 124=[], 125=[], 126=[]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[], 129=[], 194=[], 195=[], 131=[], 132=[], 133=[], 134=[], 198=[], 138=[], 140=[], 141=[], 144=[], 145=[], 146=[], 149=[], 163=[], 101=[], 103=[], 104=[], 168=[], 170=[], 173=[], 115=[], 116=[], 181=[], 184=[], 122=[], 187=[], 188=[], 189=[], 190=[]}]

***0***

What's the assignment name? ***EstimateGrade***

How many points?***55***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***2***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={130=[Assignment [name=EstimateGrade, possiblePoints=55, score=38]], 131=[Assignment [name=EstimateGrade, possiblePoints=55, score=49]], 132=[Assignment [name=EstimateGrade, possiblePoints=55, score=46]], 134=[Assignment [name=EstimateGrade, possiblePoints=55, score=48]], 136=[Assignment [name=EstimateGrade, possiblePoints=55, score=44]], 138=[Assignment [name=EstimateGrade, possiblePoints=55, score=39]], 141=[Assignment [name=EstimateGrade, possiblePoints=55, score=44]], 145=[Assignment [name=EstimateGrade, possiblePoints=55, score=47]], 146=[Assignment [name=EstimateGrade, possiblePoints=55, score=41]], 154=[Assignment [name=EstimateGrade, possiblePoints=55, score=38]], 155=[Assignment [name=EstimateGrade, possiblePoints=55, score=47]], 157=[Assignment [name=EstimateGrade, possiblePoints=55, score=45]], 158=[Assignment [name=EstimateGrade, possiblePoints=55, score=49]], 159=[Assignment [name=EstimateGrade, possiblePoints=55, score=44]], 163=[Assignment [name=EstimateGrade, possiblePoints=55, score=51]], 164=[Assignment [name=EstimateGrade, possiblePoints=55, score=39]], 165=[Assignment [name=EstimateGrade, possiblePoints=55, score=43]], 166=[Assignment [name=EstimateGrade, possiblePoints=55, score=38]], 168=[Assignment [name=EstimateGrade, possiblePoints=55, score=40]], 170=[Assignment [name=EstimateGrade, possiblePoints=55, score=46]], 172=[Assignment [name=EstimateGrade, possiblePoints=55, score=45]], 174=[Assignment [name=EstimateGrade, possiblePoints=55, score=40]], 176=[Assignment [name=EstimateGrade, possiblePoints=55, score=38]], 177=[Assignment [name=EstimateGrade, possiblePoints=55, score=52]], 178=[Assignment [name=EstimateGrade, possiblePoints=55, score=50]], 179=[Assignment [name=EstimateGrade, possiblePoints=55, score=51]], 183=[Assignment [name=EstimateGrade, possiblePoints=55, score=53]], 185=[Assignment [name=EstimateGrade, possiblePoints=55, score=52]], 188=[Assignment [name=EstimateGrade, possiblePoints=55, score=47]], 193=[Assignment [name=EstimateGrade, possiblePoints=55, score=46]], 195=[Assignment [name=EstimateGrade, possiblePoints=55, score=44]], 197=[Assignment [name=EstimateGrade, possiblePoints=55, score=54]], 199=[Assignment [name=EstimateGrade, possiblePoints=55, score=53]], 101=[Assignment [name=EstimateGrade, possiblePoints=55, score=43]], 102=[Assignment [name=EstimateGrade, possiblePoints=55, score=49]], 103=[Assignment [name=EstimateGrade, possiblePoints=55, score=54]], 105=[Assignment [name=EstimateGrade, possiblePoints=55, score=47]], 109=[Assignment [name=EstimateGrade, possiblePoints=55, score=41]], 110=[Assignment [name=EstimateGrade, possiblePoints=55, score=39]], 111=[Assignment [name=EstimateGrade, possiblePoints=55, score=46]], 112=[Assignment [name=EstimateGrade, possiblePoints=55, score=51]], 115=[Assignment [name=EstimateGrade, possiblePoints=55, score=41]], 116=[Assignment [name=EstimateGrade, possiblePoints=55, score=43]], 118=[Assignment [name=EstimateGrade, possiblePoints=55, score=50]], 119=[Assignment [name=EstimateGrade, possiblePoints=55, score=45]], 120=[Assignment [name=EstimateGrade, possiblePoints=55, score=42]], 125=[Assignment [name=EstimateGrade, possiblePoints=55, score=44]], 126=[Assignment [name=EstimateGrade, possiblePoints=55, score=43]], 127=[Assignment [name=EstimateGrade, possiblePoints=55, score=42]]}]

[1] Course [department=DBA, courseNumber=120, roster={129=[], 130=[], 131=[], 133=[], 197=[], 136=[], 138=[], 139=[], 140=[], 141=[], 146=[], 149=[], 156=[], 157=[], 159=[], 161=[], 163=[], 100=[], 164=[], 103=[], 168=[], 169=[], 171=[], 107=[], 172=[], 174=[], 112=[], 114=[], 115=[], 118=[], 183=[], 119=[], 184=[], 122=[], 188=[], 124=[], 125=[], 126=[]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[], 129=[], 194=[], 195=[], 131=[], 132=[], 133=[], 134=[], 198=[], 138=[], 140=[], 141=[], 144=[], 145=[], 146=[], 149=[], 163=[], 101=[], 103=[], 104=[], 168=[], 170=[], 173=[], 115=[], 116=[], 181=[], 184=[], 122=[], 187=[], 188=[], 189=[], 190=[]}]

***0***

What's the assignment name? ***JacksLunch***

How many points?***100***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***2***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={130=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 131=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 132=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 134=[Assignment [name=EstimateGrade, possiblePoints=55, score=48], Assignment [name=JacksLunch, possiblePoints=100, score=74]], 136=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 138=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=96]], 141=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 145=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 146=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 154=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=92]], 155=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 157=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 158=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=87]], 159=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 163=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 164=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 165=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 166=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 168=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 170=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 172=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 174=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=81]], 176=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=91]], 177=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 178=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 179=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 183=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 185=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 188=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 193=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=89]], 195=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 197=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 199=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 101=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 102=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=99]], 103=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=97]], 105=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=79]], 109=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=84]], 110=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 111=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 112=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 115=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 116=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 118=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 119=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 120=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=83]], 125=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 126=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=70]], 127=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=99]]}]

[1] Course [department=DBA, courseNumber=120, roster={129=[], 130=[], 131=[], 133=[], 197=[], 136=[], 138=[], 139=[], 140=[], 141=[], 146=[], 149=[], 156=[], 157=[], 159=[], 161=[], 163=[], 100=[], 164=[], 103=[], 168=[], 169=[], 171=[], 107=[], 172=[], 174=[], 112=[], 114=[], 115=[], 118=[], 183=[], 119=[], 184=[], 122=[], 188=[], 124=[], 125=[], 126=[]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[], 129=[], 194=[], 195=[], 131=[], 132=[], 133=[], 134=[], 198=[], 138=[], 140=[], 141=[], 144=[], 145=[], 146=[], 149=[], 163=[], 101=[], 103=[], 104=[], 168=[], 170=[], 173=[], 115=[], 116=[], 181=[], 184=[], 122=[], 187=[], 188=[], 189=[], 190=[]}]

***1***

What's the assignment name? ***MovieDB***

How many points?***75***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***2***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={130=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 131=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 132=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 134=[Assignment [name=EstimateGrade, possiblePoints=55, score=48], Assignment [name=JacksLunch, possiblePoints=100, score=74]], 136=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 138=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=96]], 141=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 145=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 146=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 154=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=92]], 155=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 157=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 158=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=87]], 159=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 163=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 164=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 165=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 166=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 168=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 170=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 172=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 174=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=81]], 176=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=91]], 177=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 178=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 179=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 183=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 185=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 188=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 193=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=89]], 195=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 197=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 199=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 101=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 102=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=99]], 103=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=97]], 105=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=79]], 109=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=84]], 110=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 111=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 112=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 115=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 116=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 118=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 119=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 120=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=83]], 125=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 126=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=70]], 127=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=99]]}]

[1] Course [department=DBA, courseNumber=120, roster={129=[Assignment [name=MovieDB, possiblePoints=75, score=53]], 130=[Assignment [name=MovieDB, possiblePoints=75, score=61]], 131=[Assignment [name=MovieDB, possiblePoints=75, score=61]], 133=[Assignment [name=MovieDB, possiblePoints=75, score=72]], 197=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 136=[Assignment [name=MovieDB, possiblePoints=75, score=55]], 138=[Assignment [name=MovieDB, possiblePoints=75, score=71]], 139=[Assignment [name=MovieDB, possiblePoints=75, score=74]], 140=[Assignment [name=MovieDB, possiblePoints=75, score=67]], 141=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 146=[Assignment [name=MovieDB, possiblePoints=75, score=56]], 149=[Assignment [name=MovieDB, possiblePoints=75, score=68]], 156=[Assignment [name=MovieDB, possiblePoints=75, score=54]], 157=[Assignment [name=MovieDB, possiblePoints=75, score=73]], 159=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 161=[Assignment [name=MovieDB, possiblePoints=75, score=69]], 163=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 100=[Assignment [name=MovieDB, possiblePoints=75, score=54]], 164=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 103=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 168=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 169=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 171=[Assignment [name=MovieDB, possiblePoints=75, score=53]], 107=[Assignment [name=MovieDB, possiblePoints=75, score=67]], 172=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 174=[Assignment [name=MovieDB, possiblePoints=75, score=64]], 112=[Assignment [name=MovieDB, possiblePoints=75, score=58]], 114=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 115=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 118=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 183=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 119=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 184=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 122=[Assignment [name=MovieDB, possiblePoints=75, score=68]], 188=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 124=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 125=[Assignment [name=MovieDB, possiblePoints=75, score=74]], 126=[Assignment [name=MovieDB, possiblePoints=75, score=63]]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[], 129=[], 194=[], 195=[], 131=[], 132=[], 133=[], 134=[], 198=[], 138=[], 140=[], 141=[], 144=[], 145=[], 146=[], 149=[], 163=[], 101=[], 103=[], 104=[], 168=[], 170=[], 173=[], 115=[], 116=[], 181=[], 184=[], 122=[], 187=[], 188=[], 189=[], 190=[]}]

***2***

What's the assignment name? ***EmployeeManagerExec***

How many points?***65***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***2***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={130=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 131=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 132=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 134=[Assignment [name=EstimateGrade, possiblePoints=55, score=48], Assignment [name=JacksLunch, possiblePoints=100, score=74]], 136=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 138=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=96]], 141=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 145=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 146=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 154=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=92]], 155=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=78]], 157=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 158=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=87]], 159=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 163=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 164=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 165=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 166=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 168=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 170=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=75]], 172=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=77]], 174=[Assignment [name=EstimateGrade, possiblePoints=55, score=40], Assignment [name=JacksLunch, possiblePoints=100, score=81]], 176=[Assignment [name=EstimateGrade, possiblePoints=55, score=38], Assignment [name=JacksLunch, possiblePoints=100, score=91]], 177=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 178=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 179=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 183=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 185=[Assignment [name=EstimateGrade, possiblePoints=55, score=52], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 188=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=85]], 193=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=89]], 195=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=88]], 197=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=82]], 199=[Assignment [name=EstimateGrade, possiblePoints=55, score=53], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 101=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 102=[Assignment [name=EstimateGrade, possiblePoints=55, score=49], Assignment [name=JacksLunch, possiblePoints=100, score=99]], 103=[Assignment [name=EstimateGrade, possiblePoints=55, score=54], Assignment [name=JacksLunch, possiblePoints=100, score=97]], 105=[Assignment [name=EstimateGrade, possiblePoints=55, score=47], Assignment [name=JacksLunch, possiblePoints=100, score=79]], 109=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=84]], 110=[Assignment [name=EstimateGrade, possiblePoints=55, score=39], Assignment [name=JacksLunch, possiblePoints=100, score=73]], 111=[Assignment [name=EstimateGrade, possiblePoints=55, score=46], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 112=[Assignment [name=EstimateGrade, possiblePoints=55, score=51], Assignment [name=JacksLunch, possiblePoints=100, score=80]], 115=[Assignment [name=EstimateGrade, possiblePoints=55, score=41], Assignment [name=JacksLunch, possiblePoints=100, score=93]], 116=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=76]], 118=[Assignment [name=EstimateGrade, possiblePoints=55, score=50], Assignment [name=JacksLunch, possiblePoints=100, score=71]], 119=[Assignment [name=EstimateGrade, possiblePoints=55, score=45], Assignment [name=JacksLunch, possiblePoints=100, score=94]], 120=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=83]], 125=[Assignment [name=EstimateGrade, possiblePoints=55, score=44], Assignment [name=JacksLunch, possiblePoints=100, score=72]], 126=[Assignment [name=EstimateGrade, possiblePoints=55, score=43], Assignment [name=JacksLunch, possiblePoints=100, score=70]], 127=[Assignment [name=EstimateGrade, possiblePoints=55, score=42], Assignment [name=JacksLunch, possiblePoints=100, score=99]]}]

[1] Course [department=DBA, courseNumber=120, roster={129=[Assignment [name=MovieDB, possiblePoints=75, score=53]], 130=[Assignment [name=MovieDB, possiblePoints=75, score=61]], 131=[Assignment [name=MovieDB, possiblePoints=75, score=61]], 133=[Assignment [name=MovieDB, possiblePoints=75, score=72]], 197=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 136=[Assignment [name=MovieDB, possiblePoints=75, score=55]], 138=[Assignment [name=MovieDB, possiblePoints=75, score=71]], 139=[Assignment [name=MovieDB, possiblePoints=75, score=74]], 140=[Assignment [name=MovieDB, possiblePoints=75, score=67]], 141=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 146=[Assignment [name=MovieDB, possiblePoints=75, score=56]], 149=[Assignment [name=MovieDB, possiblePoints=75, score=68]], 156=[Assignment [name=MovieDB, possiblePoints=75, score=54]], 157=[Assignment [name=MovieDB, possiblePoints=75, score=73]], 159=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 161=[Assignment [name=MovieDB, possiblePoints=75, score=69]], 163=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 100=[Assignment [name=MovieDB, possiblePoints=75, score=54]], 164=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 103=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 168=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 169=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 171=[Assignment [name=MovieDB, possiblePoints=75, score=53]], 107=[Assignment [name=MovieDB, possiblePoints=75, score=67]], 172=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 174=[Assignment [name=MovieDB, possiblePoints=75, score=64]], 112=[Assignment [name=MovieDB, possiblePoints=75, score=58]], 114=[Assignment [name=MovieDB, possiblePoints=75, score=66]], 115=[Assignment [name=MovieDB, possiblePoints=75, score=52]], 118=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 183=[Assignment [name=MovieDB, possiblePoints=75, score=70]], 119=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 184=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 122=[Assignment [name=MovieDB, possiblePoints=75, score=68]], 188=[Assignment [name=MovieDB, possiblePoints=75, score=59]], 124=[Assignment [name=MovieDB, possiblePoints=75, score=60]], 125=[Assignment [name=MovieDB, possiblePoints=75, score=74]], 126=[Assignment [name=MovieDB, possiblePoints=75, score=63]]}]

[2] Course [department=CSC, courseNumber=251, roster={192=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=47]], 129=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=45]], 194=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=50]], 195=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=46]], 131=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=55]], 132=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=45]], 133=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=64]], 134=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=64]], 198=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=52]], 138=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=57]], 140=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=50]], 141=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=47]], 144=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=54]], 145=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=49]], 146=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=60]], 149=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=60]], 163=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=62]], 101=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=48]], 103=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=53]], 104=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=55]], 168=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=59]], 170=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=64]], 173=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=59]], 115=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=49]], 116=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=48]], 181=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=63]], 184=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=54]], 122=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=56]], 187=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=62]], 188=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=62]], 189=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=57]], 190=[Assignment [name=EmployeeManagerExec, possiblePoints=65, score=64]]}]

***2***

What's the assignment name? ***DataSetGeneric***

How many points?***90***

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***8***

Sally Sweet with id 103

Sally Sweet with id 115

Jack Hunter with id 131

Sophie Princess with id 138

Sophie Princess with id 141

Jack Hunter with id 146

Sally Sweet with id 163

Sophie Princess with id 168

Jack Hunter with id 188

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***3***

What's the student's id? Hunter, Jack studentid=101

Hunter, Jack studentid=104

Hunter, Jack studentid=107

Hunter, Jack studentid=110

Hunter, Jack studentid=116

Hunter, Jack studentid=119

Hunter, Jack studentid=122

Hunter, Jack studentid=125

Hunter, Jack studentid=131

Hunter, Jack studentid=134

Hunter, Jack studentid=140

Hunter, Jack studentid=146

Hunter, Jack studentid=149

Hunter, Jack studentid=155

Hunter, Jack studentid=158

Hunter, Jack studentid=161

Hunter, Jack studentid=164

Hunter, Jack studentid=170

Hunter, Jack studentid=173

Hunter, Jack studentid=176

Hunter, Jack studentid=179

Hunter, Jack studentid=185

Hunter, Jack studentid=188

Hunter, Jack studentid=194

Hunter, Jack studentid=197

Princess, Sophie studentid=102

Princess, Sophie studentid=105

Princess, Sophie studentid=111

Princess, Sophie studentid=114

Princess, Sophie studentid=120

Princess, Sophie studentid=126

Princess, Sophie studentid=129

Princess, Sophie studentid=132

Princess, Sophie studentid=138

Princess, Sophie studentid=141

Princess, Sophie studentid=144

Princess, Sophie studentid=156

Princess, Sophie studentid=159

Princess, Sophie studentid=165

Princess, Sophie studentid=168

Princess, Sophie studentid=171

Princess, Sophie studentid=174

Princess, Sophie studentid=177

Princess, Sophie studentid=183

Princess, Sophie studentid=189

Princess, Sophie studentid=192

Princess, Sophie studentid=195

Princess, Sophie studentid=198

Sweet, Sally studentid=100

Sweet, Sally studentid=103

Sweet, Sally studentid=109

Sweet, Sally studentid=112

Sweet, Sally studentid=115

Sweet, Sally studentid=118

Sweet, Sally studentid=124

Sweet, Sally studentid=127

Sweet, Sally studentid=130

Sweet, Sally studentid=133

Sweet, Sally studentid=136

Sweet, Sally studentid=139

Sweet, Sally studentid=145

Sweet, Sally studentid=154

Sweet, Sally studentid=157

Sweet, Sally studentid=163

Sweet, Sally studentid=166

Sweet, Sally studentid=169

Sweet, Sally studentid=172

Sweet, Sally studentid=178

Sweet, Sally studentid=181

Sweet, Sally studentid=184

Sweet, Sally studentid=187

Sweet, Sally studentid=190

Sweet, Sally studentid=193

Sweet, Sally studentid=199

***146***

for Jack Hunter

In course CSC151

EstimateGrade 41 out of 55 for 75

JacksLunch 78 out of 100 for 78

In course DBA120

MovieDB 56 out of 75 for 75

In course CSC251

EmployeeManagerExec 60 out of 65 for 92

DataSetGeneric 84 out of 90 for 93

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***4***

***Note that from here to the end of the document I’m deleting the roster information returned by Course.toString***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster{}]

[1] Course [department=DBA, courseNumber=120, roster={ }]

[2] Course [department=CSC, courseNumber=251, roster={ }]

***0***

Hunter, Jack studentid=101

Hunter, Jack studentid=110

Hunter, Jack studentid=116

Hunter, Jack studentid=119

Hunter, Jack studentid=125

Hunter, Jack studentid=131

Hunter, Jack studentid=134

Hunter, Jack studentid=146

Hunter, Jack studentid=155

Hunter, Jack studentid=158

Hunter, Jack studentid=164

Hunter, Jack studentid=170

Hunter, Jack studentid=176

Hunter, Jack studentid=179

Hunter, Jack studentid=185

Hunter, Jack studentid=188

Hunter, Jack studentid=197

Princess, Sophie studentid=102

Princess, Sophie studentid=105

Princess, Sophie studentid=111

Princess, Sophie studentid=120

Princess, Sophie studentid=126

Princess, Sophie studentid=132

Princess, Sophie studentid=138

Princess, Sophie studentid=141

Princess, Sophie studentid=159

Princess, Sophie studentid=165

Princess, Sophie studentid=168

Princess, Sophie studentid=174

Princess, Sophie studentid=177

Princess, Sophie studentid=183

Princess, Sophie studentid=195

Sweet, Sally studentid=103

Sweet, Sally studentid=109

Sweet, Sally studentid=112

Sweet, Sally studentid=115

Sweet, Sally studentid=118

Sweet, Sally studentid=127

Sweet, Sally studentid=130

Sweet, Sally studentid=136

Sweet, Sally studentid=145

Sweet, Sally studentid=154

Sweet, Sally studentid=157

Sweet, Sally studentid=163

Sweet, Sally studentid=166

Sweet, Sally studentid=172

Sweet, Sally studentid=178

Sweet, Sally studentid=193

Sweet, Sally studentid=199

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***5***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={}]

[1] Course [department=DBA, courseNumber=120, roster={}]

[2] Course [department=CSC, courseNumber=251, roster={}]

***2***

What's the student id?

Hunter, Jack studentid=101

Hunter, Jack studentid=104

Hunter, Jack studentid=116

Hunter, Jack studentid=122

Hunter, Jack studentid=131

Hunter, Jack studentid=134

Hunter, Jack studentid=140

Hunter, Jack studentid=146

Hunter, Jack studentid=149

Hunter, Jack studentid=170

Hunter, Jack studentid=173

Hunter, Jack studentid=188

Hunter, Jack studentid=194

Princess, Sophie studentid=129

Princess, Sophie studentid=132

Princess, Sophie studentid=138

Princess, Sophie studentid=141

Princess, Sophie studentid=144

Princess, Sophie studentid=168

Princess, Sophie studentid=189

Princess, Sophie studentid=192

Princess, Sophie studentid=195

Princess, Sophie studentid=198

Sweet, Sally studentid=103

Sweet, Sally studentid=115

Sweet, Sally studentid=133

Sweet, Sally studentid=145

Sweet, Sally studentid=163

Sweet, Sally studentid=181

Sweet, Sally studentid=184

Sweet, Sally studentid=187

Sweet, Sally studentid=190

***129***

For Princess, Sophie with id 129 in CSC-251 has average 79.0

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***6***

Which Course? Make a Selection:

[0] Course [department=CSC, courseNumber=151, roster={}]

[1] Course [department=DBA, courseNumber=120, roster={}]

[2] Course [department=CSC, courseNumber=251, roster={}]

***1***

Which assignment?

Make a Selection:

[0] MovieDB

***0***

The course average for that lab is 83.65789473684211

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***7***

What's the student's id?

Hunter, Jack studentid=101

Hunter, Jack studentid=104

Hunter, Jack studentid=107

Hunter, Jack studentid=110

Hunter, Jack studentid=116

Hunter, Jack studentid=119

Hunter, Jack studentid=122

Hunter, Jack studentid=125

Hunter, Jack studentid=131

Hunter, Jack studentid=134

Hunter, Jack studentid=140

Hunter, Jack studentid=146

Hunter, Jack studentid=149

Hunter, Jack studentid=155

Hunter, Jack studentid=158

Hunter, Jack studentid=161

Hunter, Jack studentid=164

Hunter, Jack studentid=170

Hunter, Jack studentid=173

Hunter, Jack studentid=176

Hunter, Jack studentid=179

Hunter, Jack studentid=185

Hunter, Jack studentid=188

Hunter, Jack studentid=194

Hunter, Jack studentid=197

Princess, Sophie studentid=102

Princess, Sophie studentid=105

Princess, Sophie studentid=111

Princess, Sophie studentid=114

Princess, Sophie studentid=120

Princess, Sophie studentid=126

Princess, Sophie studentid=129

Princess, Sophie studentid=132

Princess, Sophie studentid=138

Princess, Sophie studentid=141

Princess, Sophie studentid=144

Princess, Sophie studentid=156

Princess, Sophie studentid=159

Princess, Sophie studentid=165

Princess, Sophie studentid=168

Princess, Sophie studentid=171

Princess, Sophie studentid=174

Princess, Sophie studentid=177

Princess, Sophie studentid=183

Princess, Sophie studentid=189

Princess, Sophie studentid=192

Princess, Sophie studentid=195

Princess, Sophie studentid=198

Sweet, Sally studentid=100

Sweet, Sally studentid=103

Sweet, Sally studentid=109

Sweet, Sally studentid=112

Sweet, Sally studentid=115

Sweet, Sally studentid=118

Sweet, Sally studentid=124

Sweet, Sally studentid=127

Sweet, Sally studentid=130

Sweet, Sally studentid=133

Sweet, Sally studentid=136

Sweet, Sally studentid=139

Sweet, Sally studentid=145

Sweet, Sally studentid=154

Sweet, Sally studentid=157

Sweet, Sally studentid=163

Sweet, Sally studentid=166

Sweet, Sally studentid=169

Sweet, Sally studentid=172

Sweet, Sally studentid=178

Sweet, Sally studentid=181

Sweet, Sally studentid=184

Sweet, Sally studentid=187

Sweet, Sally studentid=190

Sweet, Sally studentid=193

Sweet, Sally studentid=199

***163***

Sally Sweet with id 163

in CSC-151 has an average 85.0

in DBA-120 has an average 88.0

in CSC-251 has an average 84.0

Make a Selection:

[0] Create Course

[1] Populate a Course

[2] Add an Assignment

[3] Display all Labs for a Student in all courses

[4] Display all Students for a Course

[5] Display the average for a Student in a Course

[6] Display the average for an Assignment

[7] Display a student's average in all courses

[8] Display all students that are in all courses

[9] Exit

***9***