

CS 104 MSG Activity 7:
2-Dimensional Arrays
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Week 8

Given the array declaration below, complete the following problems.

```
float[] [] gradebook = new float[25][4]
```

Exercise 1.

Suppose that in `gradebook[i][j]`, `i` is the student ID and `j` is the assignment (0 is Midterm 1, 1 is Lab Exam, 2 is Midterm 2, and 3 is Final Exam). How could you compute the average grade on Midterm 1?

Exercise 2.

Suppose that in `gradebook[i][j]`, `i` is the student ID and `j` is the assignment (0 is Midterm 1, 1 is Lab Exam, 2 is Midterm 2, and 3 is Final Exam). How could you compute the average grade on an given assignment index `i`?

Exercise 3.

Suppose the class is graded in a total points fashion. Write a function `finalGrade(float[] [] gradebook, int id)` to compute the final grade of a given student with ID `id`.

Exercise 4.

Suppose the class is graded in a total points fashion. Write a function `finalGrades(float[] [] gradebook)` that returns a (one-dimensional) array of student final grades. You are encouraged to use the `finalGrade(float[] [] gradebook, int id)` function you created earlier.