

Programming Activity 1

You have one hour to complete a program that reads a series of courses and grades, and returns a summary of how many courses there are and what the average GPA is. The format of the data you will be reading is as follows:

```
CS  234      A
MAT 243      B+
...
```

Namely, each line consists of a sequence of letters indicating the department, followed by a number of spaces and then the course number. After one or more spaces a letter grade for the course is present. The letter grades correspond to GPA scores as follows:

A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
F	0
W	The course should not count at all towards the total or the GPA calculation.

You are given some start code to help you get started. You will need to:

1. Check out (clone) the grades project from GitHub: <https://github.com/sdp-resources/grades>
2. Start a new IntelliJ project based off of the directory where you cloned the project.
3. Make sure to include the JUnit4 library to the classpath, by using the intention context menu on the import part of Main.java.
4. There are a few tests there in the Main class, which you can run by *creating a new JUnit4 configuration to run all tests in the package sdp*. They should all be failing right now.

The method you need to write, processGrades is given as input a “scanner”. A scanner is going to skip whitespaces and return the remaining “tokens” to you when you call an appropriate next... method of it. Check out the Java Scanner documentation¹ for more details.

¹<https://docs.oracle.com/javase/7/docs/api/java/util/Scanner.html>