

SSW 215 Individual Software Engineering

Activity 6a

Purpose: Practice using arrays and hashes in Ruby

1. Write a Ruby program named `classes.rb` that will read a list of student enrollments in classes and print a list of students in each class.

Input to your program will consist of a sequence of lines: Each line contains the last name of a student followed by the list of course numbers denoting the courses in which they are enrolled. Output should be a list of courses, with the list of enrolled students shown for each course. The courses should appear in sorted order, and the list of enrolled students should also appear in sorted order.

Here is a suggested strategy for creating this program:

- a) Create a hash of courses indexed by course numbers. The value of each course should be an array of student names.
- b) Collect the keys of the hash as a list and sort it.
- c) Retrieve and sort each array of student names as you iterate through the list of keys.

Note: You don't have to follow this strategy, but you must use at least one array and at least one hash in your program.

Example input:

```
Turing 215 322 555
Lovelace 215 322 315
Babbage 322 345
```

Example output:

```
215:
Lovelace
Turing
```

```
315:
Lovelace
```

```
322:
Babbage
Lovelace
Turing
...
```

2. Include a comment line at the beginning of your program that shows who worked on this activity.
3. Remember to exchange copies of the program and Ruby Programming Log files so that each member of the pair has a copy of each file at the end of the activity.
4. Submit your program `classes.rb` file via Canvas