

COMP8710 Class 4.1 – Collections

Introduction

Over the next few classes, we will practice the processing of collections. In this class, you will write code in the traditional “imperative” style. In the following classes, we will rewrite this code using functional constructs. For now, don’t worry about using functional code — use for-each loops or loops with iterators for these exercises.

Setup

Download the file `MusicTracks.zip` from the module Moodle page and unzip the file. `MusicTracks` folder contains an IntelliJ project; open it in IntelliJ. *You can use another professional IDE (e.g. Eclipse) if you like.*

There are four classes: `Main`, `MusicLibrary`, `Track` and `TrackReader`. All your work will be in the class `MusicLibrary`; you do not need to edit the other classes.

Task

In class `MusicLibrary`, you will find method stubs (unimplemented skeletons) for 8 methods, starting with `printList`. Implement these methods (in parts I and II).

The main method in the `Main` class includes some calls to test your methods. Execute the project after implementing each method and check that the result is what you expected.

Finishing

We will continue to use this project for the next two classes. Make sure you finish the tasks before the next class.