COMP8710 Class 5.1 – Processing streams (1)

Introduction

In this class, we will start to rewrite the code from Class 4.1 in a functional style. We will not finish all methods today; some will be left for next class.

Setup

Open your **MusicTracks** project from Class 4.1. Again, you may want to take a copy for safe-keeping first; we will modify the project now, and maybe you would like to keep a copy of last week's solution.

Task

1. Rewrite the methods in **PART I** of MusicLibrary (methods printList to getTimeByArtist) to use stream processing methods. Your methods should not contain any loops anymore!

2. Assume you are looking for a backing track to fit a video you are editing.You need a track that is short (to fit your scene) and old (to fit the mood of the video). Add the method:

    > void printOldAndShort(int year, int maxTime)

    that prints out all tracks that are published in or before year, and have a running time of at most maxTime. The Main class contains a test for this method, currently commented out. Uncomment this to test your new method.

Finishing

Make sure you complete the exercises before starting on Part II. Ask for help if you have difficulty.