

Overview

Write a software program that compares two directories and detects duplicate files. C# or Java is preferred but you can use C or C++ if you are not comfortable with C# or Java. You may use any development tool or integrated development environment. Examples include, but are not limited to, Visual Studio Community, Visual Studio Code, and Eclipse. Use your best judgment to fulfill the requirements below.

This exercise should typically take 1-2 hours to complete. Spend no more than 3 hours. If there are features that could not be completed within the recommended time frame, please document this.

Requirements

- The program will take as input a single command and two directory paths.
- Depending on the command, the program will do one of the following:
 - Display a list of all files from one directory (and subdirectories) that duplicate any files in the other directory (and subdirectories).
 - Delete all files from one directory (and subdirectories) that duplicate any files in the other directory (and subdirectories).
 - Copy all files that are *not* duplicates from one directory (and subdirectories) to the other directory (and subdirectories).
- Files are duplicates if their contents are identical. The file name and path do not matter.
- Write production quality code and use good programming practices and documentation.
- Explain any design decisions that you make. Explain any testing considerations that are not included in the code you provide.

Submission

Include all source files, documentation files, and supporting files in one ZIP file, then email the ZIP file to Aerotech and describe approximately how much time was spent developing this program.