Zip Code Group Project 2.0 - User Guide

1. Overview:

This program processes CSV files containing Zip Code data and performs the following tasks:

- Converts CSV files to length-indicated format.

- Creates primary key indexes for Zip Codes.

- Searches for Zip Codes provided as command-line arguments.

2. Usage:

Compile the program:

$ g++ main.cpp Buffer.cpp -o zipcode

Run the program:

$ ./zipcode -Z<zipCode1> -Z<zipCode2> ...

Example:

$ ./zipcode -Z56301 -Z90210 -Z00000

3. Output:

- The program will display whether each Zip Code is found or not.

- It will generate the following files:

- Length-indicated files: original\_length\_indicated.txt, randomized\_length\_indicated.txt

- Primary key index files: original\_index.txt, randomized\_index.txt

4. Dependencies:

- C++ compiler (g++)

- Python (for CSV conversion script)

- Pandas and OpenPyXL (for CSV conversion script)