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Data Structures and Algorithm II Project 5

User's Manual

Setup and Compilation

1. **Download and Unzip Submission**
    - Download and unzip the canvas submission.
    - The submission will include the following files:
        - `data-extraction.hpp`
        - `data-extraction.cpp`
        - `lcs-one.hpp`
        - `lcs-one.cpp`
        - `lcs-two.hpp`
        - `lcs-two.cpp`
        - `compute-lcs.hpp`
        - `compute-lcs.cpp`
        - `main.cpp`
        - `multiStrings.txt`
        - `twoStrings.txt`
        - Makefile
        - UML
        - Test folder containing:
            - `tests/data-extraction-test.cpp`
            - `tests/lcs-one-test.cpp`
            - `tests/lcs-two-test.cpp`
2. **Environment**
    - This program has been tested in a multiplatform lab and is compatible with various systems.
3. **Compiling**
    - The project includes a Makefile to facilitate the build process. Use the following commands:
        - To run tests:
            - `make run-test`
        - To run the main program:
            - `make run-main`

        - To clean the directory:
            - `make clean`
        -

4. **Running the Program**
    - Ensure that all `-test` files are located in the `tests` folder.
    - All `.hpp`, `.cpp` files should be outside of the `tests` folder.
    - The program doesn't require user interaction to input values.
5. **Input Prompt**

   NO INPUT AVAILABLE

6. **Output**

The output will be displayed in the console, similar to the following format:

```
Part 1
String one: fdsasdfdsfsdsdssdasasfd
String two: adfdsasdfsdssasadsfsfsdsfad
LCS: adfdsasdfs


Part 2
  0 1 2 3 4
0 - D D D L
1 - - D D D
2 - - - M D
3 - - - - D
4 - - - - -
```

Additional Notes

- Make sure to have the necessary development tools installed to compile the code, such as a C++ compiler (like g++).
- If you encounter any errors during compilation or execution, verify that all files are in the correct directories and properly named.
- For any questions or feedback regarding the project, please feel free to reach out!