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Data Structures and Algorithms II
Project 1
User's Manual

Setup and Compilation
1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.
2. The submission includes:
   - StringHashTable.cpp
   - StringHashTable.hpp
   - StringHasher.hpp
   - StringNode.cpp
   - StringNode.hpp
   - VigenereCipher.cpp
   - VigenereCipher.hpp
   - PasswordGenerator.cpp
   - PasswordGenerator.hpp
   - Parser.cpp
   - Parser.hpp
   - NameRunner.cpp
   - NameRunner.hpp
   - main.cpp
   - Makefile
   - names.txt
   - CMakeLists.txt
   - Google_tests/
   - run_tests.sh
   - UsersManual.pdf (this file)

3. Environment: This program has been tested in the multi-platform lab and a native Arch Linux system and will run there.

4. Compiling: This program includes a `Makefile`. At the command line in Linux, type `make`. The program produces an executable entitled main

5. Running the program. Be sure `names.txt` are in the same directory as the executable. Issue the command `./main`
No command line arguments are required or checked.
`names.txt` must be formatted with each name on a separate line with any white space separating the name from the rest of the characters. All other characters after the first white-space are ignored.

6. User input: no user interaction with the program is required.

7. Output: All output goes to the console. Output will be similar to this:

```
Legal:
UserID   Password          Result
SMITH    jsrwdjkws         match
WILLIAMS          jpliyyggl match
BROWN iwbckapvl            match
MILLER   oievhjivv         match
```

MOORE cvglkrury match

Illegal:

UserID	Password	Result
SMITH	jsrwdjkwsa	no match
WILLIAMS	jpliyyggla	no match
BROWN	iwbckapvla	no match
MILLER	oievhjivva	no match
MOORE	cvglkrurya	no match