SE507μ Hacking Password Hashes with Rainbow Tables

Mission 3: My first rainbow table

This assessment evaluates the following competencies:

- *CS007 – Understand why it is important to store passwords carefully*
- *CS502 – Understand how rainbow table can be used to find a password given the hashed passwords database*
- *CS901 – Understand how passwords database can be attacked*
- *CS501 – Write a program that tries to guess the password corresponding to a hash value given the hashed passwords database*

For this mission, you have to write a program that produces a rainbow table for LM Hashes. For this, define seven reduction functions and generate a text file storing 100 hash chains. Then, write:

- a function that can read this file, rebuild the hash chains and print them out;
- a function that can search for the clear password corresponding to a given hash code.