Adopted & modified from Herbert Bos's course on Network Security

Given:

- /etc/passwd file
- /etc/shadow file
- A dictionary file

Goal:

To recover as many user passwords as possible using a dictionary of words commonly used in passwords.

Use unshadow command (just like in John the ripper), that combines the contents of the /etc/passwd and /etc/shadow files to create a combined file called 'passwordfile.txt'. Your command to run will look like this.

Use Makefile to generate the executable

unshadow /tmp/password /tmp/shadow

Inputs to the C program is passwordfile.txt and the dictionary file

- To compile use make
- To run 'make runall'

The make runall command must automatically run

guessword –i hash.txt –d dictionary.txt –o all

guessword -i hash.txt -d dictionary.txt -o current

guessword –i hash.txt –d dictionary.txt –o root

HINT: Use getopt

Program Output

A text file called 'allcrackpasswd.txt' which contains a list of cracked passwords in the format

username:password

- How many passwords you cracked
- Time you took to crack those many passwords
- Can you improve on your time?

Program must:

- Be indented & documented properly.
- Be written entirely by yourself
- Use proper coding standards if you don't know what it is google it. J
- Not invoke external programs
- Not use external libraries other than GNU libc and –lcrypt
- Compile and run on a standard installation of Ubuntu