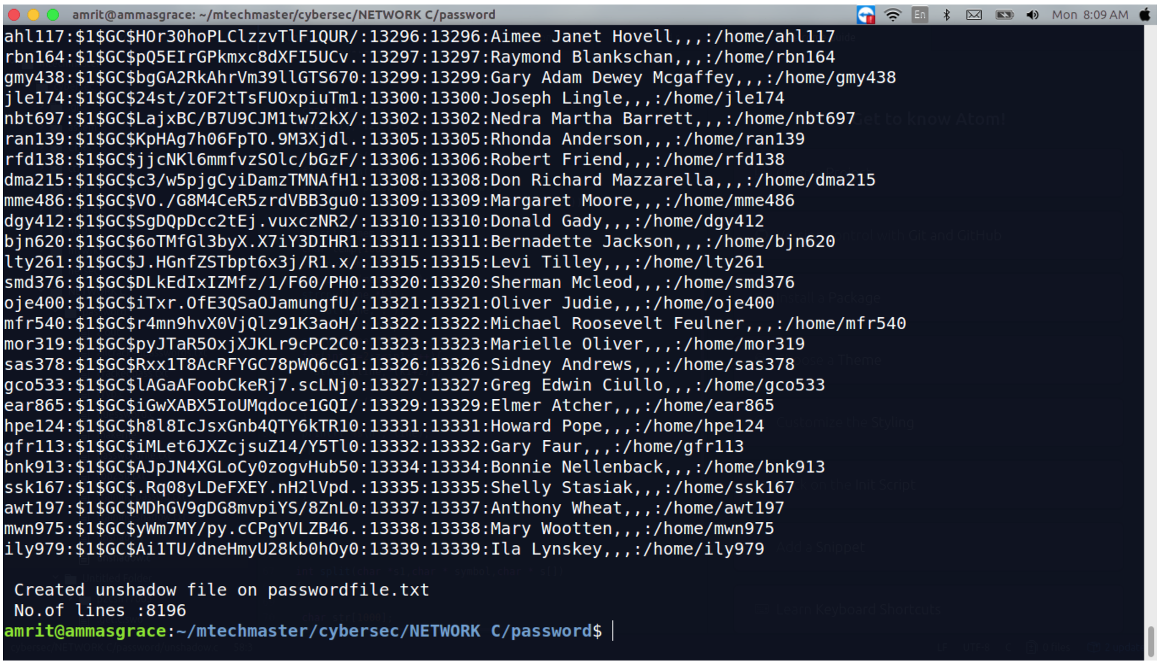
Amritanand C
P2CSN17003

GUESS PASSWORD

The program can be run by running ushadow .c & guessword.c

unshadow <filename><filename>

eg: unshadow training-shadow.txt training-passwd.

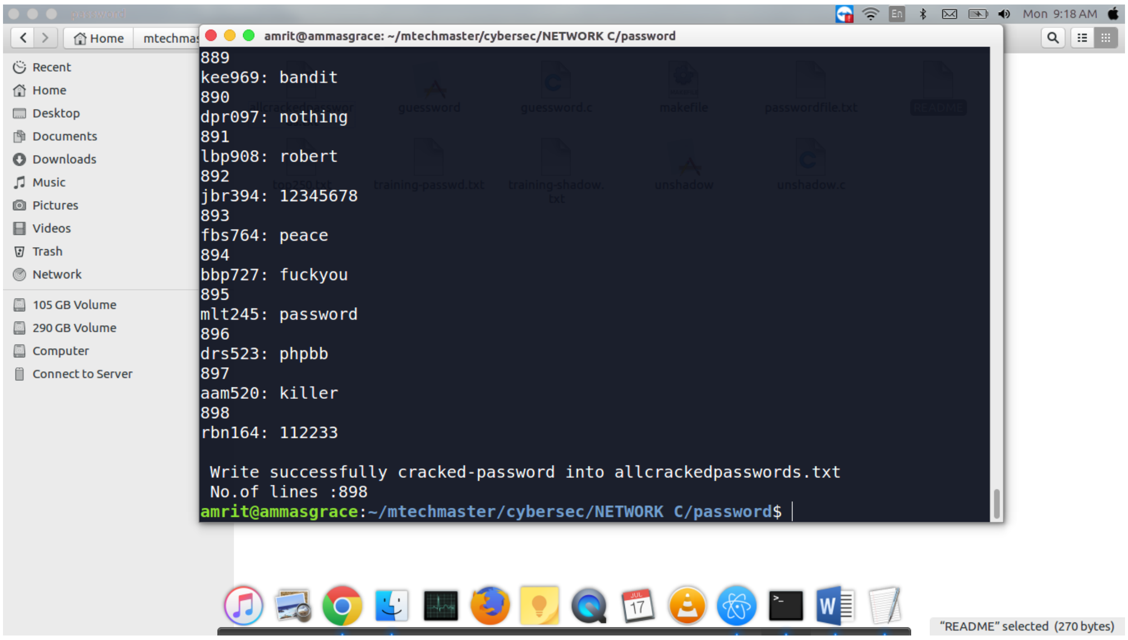


```
ahl117:$1$GC$HOr30hoPLClzzvTlF1QUR/:13296:13296:Aimee Janet Hovell,,,:/home/ahl117
rbn164:$1$GC$pQ5EIrGPkmxc8dXFI5UCv.:13297:13297:Raymond Blankschan,,,:/home/rbn164
gmy438:$1$GC$bgGA2RkAhrVm39llGTS670:13299:13299:Gary Adam Dewey Mcgaffey,,,:/home/gmy438
jle174:$1$GC$24st/zOF2tTsFUOxpiuTm1:13300:13300:Joseph Lingle,,,:/home/jle174
nbt697:$1$GC$LajxBC/B7U9CJM1tw72kX/:13302:13302:Nedra Martha Barrett,,,:/home/nbt697
ran139:$1$GC$KpHAg7h06FpTO.9M3Xjdl.:13305:13305:Rhonda Anderson,,,:/home/ran139
rfd138:$1$GC$jjcNKl6mmfvzSOlc/bGzF/:13306:13306:Robert Friend,,,:/home/rfd138
dma215:$1$GC$c3/w5pjgCyiDamzTMNAfH1:13308:13308:Don Richard Mazzarella,,,:/home/dma215
mme486:$1$GC$VO./G8M4CeR5zrdVBB3gu0:13309:13309:Margaret Moore,,,:/home/mme486
dgy412:$1$GC$SgDQpDcc2tEj.vuxczNR2/:13310:13310:Donald Gady,,,:/home/dgy412
bjn620:$1$GC$6oTMfGl3byX.X7iY3DIHR1:13311:13311:Bernadette Jackson,,,:/home/bjn620
lty261:$1$GC$J.HGnfZSTbpt6x3j/R1.x/:13315:13315:Levi Tilley,,,:/home/lty261
smd376:$1$GC$DLkEdIxIZMfz/1/F60/PH0:13320:13320:Sherman Mcleod,,,:/home/smd376
oje400:$1$GC$iTxr.OfE3QSaOJamungfU/:13321:13321:Oliver Judie,,,:/home/oje400
mfr540:$1$GC$r4mn9hvX0VjQlz91K3aoH/:13322:13322:Michael Roosevelt Feulner,,,:/home/mfr540
mor319:$1$GC$pyJTaR5OxjXJKLr9cPC2C0:13323:13323:Marielle Oliver,,,:/home/mor319
sas378:$1$GC$Rxx1T8AcRFYGC78pWQ6cG1:13326:13326:Sidney Andrews,,,:/home/sas378
gco533:$1$GC$lAGaAFoobCkeRj7.scLNj0:13327:13327:Greg Edwin Ciullo,,,:/home/gco533
ear865:$1$GC$iGwXABX5IoUMqdoce1GQI/:13329:13329:Elmer Atcher,,,:/home/ear865
hpe124:$1$GC$h8l8IcJsxGnb4QTY6kTR10:13331:13331:Howard Pope,,,:/home/hpe124
gfr113:$1$GC$iMLet6JXZcjsuZ14/Y5Tl0:13332:13332:Gary Faur,,,:/home/gfr113
bnk913:$1$GC$AJpJN4XGLoCy0zogvHub50:13334:13334:Bonnie Nellenback,,,:/home/bnk913
ssk167:$1$GC$.Rq08yLDeFXEY.nH2lVpd.:13335:13335:Shelly Stasiak,,,:/home/ssk167
awt197:$1$GC$MDhGV9gDG8mvpiYS/8ZnL0:13337:13337:Anthony Wheat,,,:/home/awt197
mwn975:$1$GC$yWm7MY/py.cCPgYVLZB46.:13338:13338:Mary Wootten,,,:/home/mwn975
ily979:$1$GC$Ai1TU/dneHmyU28kb0hOy0:13339:13339:Ila Lynskey,,,:/home/ily979

 Created unshadow file on passwordfile.txt
 No.of lines :8196
amrit@ammasgrace:~/mtechmaster/cybersec/NETWORK C/password$
```

Guessword -i [<unshadow file>] -d [<dictionary >]

eg : guessword -d t50dictionary.txt -i passwordfile.txt



```
889
kee969: bandit
890
dpr097: nothing
891
lbp908: robert
892
jbr394: 12345678
893
fbs764: peace
894
bbp727: fuckyou
895
mlt245: password
896
drs523: phpbb
897
aam520: killer
898
rbn164: 112233

 Write successfully cracked-password into allcrackedpasswords.txt
 No.of lines :898
amrit@ammasgrace:~/mtechmaster/cybersec/NETWORK C/password$
```

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GUESS PASSWORD

- ✔ Unshadow ,program will combine both shadow and password file to form an unshadow file that contains the hashed password and other informations like home directory etc.

  unshadow <filename><filename>
  eg: unshadow training-shadow.txt training-passwd.

  For that created a function to split string with respect to a symbol,

  ```
          int split(char *,char * symbol,char * s[]);
                          :-   argumensts are the input string , symbol and the output buffer
                          :-   returns the integer , if less than 0 => no split occured ,
                               if a positive number => that many splitted substrings
  ```

  Another function that read from two file and combines the out and write to the file.

  ```
          int fileop();
                          :-reutrns an integer , no.of lines in the outpufile!
  ```

- ✔ Guessword will hash the password in the the dictionary and compares the hash and the unshadow file for the matching hashes, and prints the matched username and password.

  Guessword -i [<unshadow file>] -d [<dictionary >]
  eg : guessword -d t50dictionary.txt -i passwordfile.txt

  For that created a function to split string with respect to a symbol,

  ```
          int split(char *,char * symbol,char * s[]);
                          :-   argumensts are the input string , symbol and the output buffer
                          :-   returns the integer , if less than 0 => no split occured ,
                               if a positive number => that many splitted substrings
  ```

  Finds the hash using the function.

  ```
          const char * cryptmypass(char password[]);
                          :- input the plain password, and the salt.
                          :- returns fixedlength hashcodes.
  ```

  Compares the hash and the hash in the unshadow file

  ```
          int compare(char x[]);
                          :- input  hash in the unshadow file,
                          :- returns 1 or 0 , 1=> True and 0=> False.
  ```