#include<stdio.h>

#include<stdlib.h>

#include <getopt.h>

#include<string.h>

#include<crypt.h>

char \*c[500];

char e[9000][500];

char d[9000][500];

char salt[] = "$1$GC";

char p[9000][600];

char u[9000][600];

void function(char \*optarg,FILE \*input, FILE \*dict);

void crackall();

void printallarray(void);

int main(int argc, char \*\*argv) {

int option,i;

FILE \*input,\*dict;

char db[1000]={0};

char \*line = NULL,\*tokenize= NULL;

size\_t len = 0;

enum { INITIAL\_SIZE = 50 };

size\_t c\_size = INITIAL\_SIZE;

while ((option = getopt(argc, argv, "i:d:o:")) !=-1) {

switch (option) {

case 'i' :

input = fopen(optarg, "r");

if(input == NULL)

{

printf("Error opening the file existing\n");

exit(-1);

}

else

printf("sucess-->input\n");

i=0;

while(getline(&line, &len, input)!= -1){

tokenize=strtok(line,":");

strcpy(u[i],tokenize);

tokenize = strtok(NULL,":");

strcpy(e[i],tokenize);

printf("here: %d %s\n",i,e[i]);

i++;

}

fclose(input);

break;

case 'd' :

dict = fopen(optarg, "r");

if(dict ==NULL)

{

printf("error opening the file\n");

exit(-1);

}

else

i=0;

while(getline(&line, &len, dict)!= -1){

tokenize=strtok(line,"\t");

tokenize = strtok(NULL,"\t");

tokenize = strtok(NULL,"\t");

tokenize = strtok(NULL,"\t");

tokenize[strlen(tokenize)-1]= 0;

strcpy(d[i],tokenize);

strcpy(p[i],crypt(d[i],"$1$GC"));

i++;

}

fclose(dict);

break;

case 'o' :

printf("options used %s\n",optarg);

function(optarg,input,dict);

break;

default :

printf("invalid option\n");

}

}

}

void function(char \*optarg, FILE \*input, FILE \*dict)

{ //printallarray();

if(strcmp(optarg,"all")==0)

crackall();

else

username();

}

void printallarray(){

for(int i=0;i<8196;i++)

printf("%s\n",e[i]);

for(int j=0;j<250;j++)

printf("%s\t%s\n",d[j],p[j]);

}

void crackall()

{

int m,n;

printf("here\n");

printf("%s\t%s\n",u[600],d[600]);

for(m=0;m<=8196;m++)

for(n=0;n<=250;n++)

if(strcmp(p[n],e[m])==0)

printf("The password of %s is %s\n", u[m],d[n]);

}

void username()

{

}