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#define _XOPEN_SOURCE
#include <unistd.h>
#include <stdio.h>
#include <string.h>
#include <cs50.h>
```

```
int main (int argc , string argv[])
{
    if(argc != 2)
    {
        printf("usage: crack <hash>\n");
        return 1;
    }
    //get the letters
    const int harafin_count = 53;

    string harafin = "\0
abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ";
    string hash = argv[1];

    char gichiri[3];
    memcpy (gichiri, hash, 2);
    gichiri[2] = '\0';

    char key_password[6]= "\0\0\0\0\0\0";

    for(int biyarr = 0; biyarr < harafin_count;
    biyarr++)
    {
        for(int houdou = 0; houdou < harafin_count;
        houdou++)
        {
            for(int ouckou = 0; ouckou< harafin_count;
            ouckou++)
            {
                for(int biyou = 0; biyou < harafin_count;
                biyou++)
```

```

        {
            for(int daya = 1; daya <
harafin_count; daya++)

                {
                    // enter all the password
                    key_password[0] = harafin [daya];
// 1)
                    key_password[1] = harafin
[biyou]; // 2)
                    key_password[2] = harafin
[ouckou]; // 3)
                    key_password[3] = harafin
[houdou]; // 4)
                    key_password[4] = harafin
[biyarr]; // 5)

                    if(strcmp(crypt(key_password,gichiri),
hash )==0)

                        {
                            printf("%s\n", key_password);
                            return 0;
                        }
                    }
                }
            }

            printf("password couldn't be cracked !");

            return 2;

        }

```