Crack

[tl;dr](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#tldr)

Implement a program that cracks passwords, per the below.

$ python crack.py 51v3Nh6ZWGHOQ

ROFL

[Specification](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#specification)

Design and implement a program, crack, that cracks passwords, exactly as you did in [Problem Set 2](https://lab.cs50.io/cs50/labs/2019/x/crack/), except that your program this time should be written (a) in Python and (b) in CS50 IDE..

* Implement your program in a file called crack.py in your ~/workspace/pset6/crack directory (if it doesn’t already exist, create it now!).
* Your program should accept a single command-line argument: a hashed password.
* If your program is executed without any command-line arguments or with more than one command-line argument, your program should print an error (of your choice) and exit immediately.
* Otherwise, your program must proceed to crack the given password, ideally as quickly as possible, ultimately printing the password in the clear followed by \n, nothing more, nothing less.
* Assume that each password has been hashed with C’s DES-based (not MD5-based) crypt function.
* Assume that each password is no longer than five (5) characters. Gasp!
* Assume that each password is composed entirely of alphabetical characters (uppercase and/or lowercase).

[Password List](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#password-list)

brian:51.xJagtPnb6s

bjbrown:50GApilQSG3E2

emc:502sDZxA/ybHs

greg:50C6B0oz0HWzo

jana:50WUNAFdX/yjA

lloyd:50n0AAUD.pL8g

malan:50CcfIk1QrPr6

natmelo:50JIIyhDORqMU

rob:51v3Nh6ZWGHOQ

veronica:61v1CDwwP95bY

walker:508ny6Rw0aRio

zamyla:50cI2vYkF0YU2

[Walkthrough](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#walkthrough)

**Note: The walkthrough video incorrectly states that passwords are no longer than four (4) characters. Instead, per the specification, make sure to handle passwords that are up to five (5) characters.**

https://youtu.be/5B1tK\_4y-gI

[Usage](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#usage)

Your program should behave per the examples below. Assume that the underlined text is what some user has typed.

$ python crack.py

Usage: python crack.py hash

$ python crack.py 51v3Nh6ZWGHOQ

ROFL

[Testing](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#testing)

[Correctness](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#correctness)

No check50 for this one! But odds are, if you can crack all twelve passwords above, you’re in good shape!

[Style](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#style)

style50 crack.py

[How to Submit](https://docs.cs50.net/2019/x/psets/6/sentimental/crack/crack.html#how-to-submit)

Execute the below, logging in with your GitHub username and password when prompted. For security, you’ll see asterisks (\*) instead of the actual characters in your password.

submit50 cs50/problems/2019/x/sentimental/crack

You can then go to <https://cs50.me/cs50x> to view your current scores!