

Mock Semifinals 2024 Web-Based Challenge

Challenge 2: Password Auditing

Description

The attached shadow file has several different hashed passwords. Use the attached wordlist and a password cracking tool like hashcat or john to find the username, the salt used to hash the password, and the cracked password for each user.

Password 1: This password is one of the words in the wordlist.

Password 2: This password is one of the words in the wordlist, with two digits added at the end. For example, if the wordlist word is “banana”, the password could be “banana08” (not including the quotes).

Password 3: This password is one of the words in the wordlist, with a special character in the front, and two special characters at the end. For example, if the wordlist word is “apple”, the password could be “!apple\$%” or “*apple&@” (not including the quotes).

- The possible special characters are the following: ! @ # \$ % ^ & *

Password 4: This password is one of the words in the wordlist, but with the following below substitutions made. For example, if the wordlist word is “plaited”, the password would be “p14!73d”.

- Each instance of “l” (lowercase “L”) has been replaced with “1”.
- Each instance of “e” has been replaced with “3”.
- Each instance of “a” has been replaced with “4”.
- Each instance of “t” has been replaced with “7”.
- Each instance of “i” has been replaced with “!”.

Password 5: This password is 6 random lowercase characters. An example of such a password would be “kfplhr”.

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Submission Instructions

You must submit your answer as a .csv file, in the following format:

- ☐ The first line of the submission should contain your team number. In the case of this practice competition, please use your unique ID instead.
- ☐ The second line should contain the username corresponding to password 1, the salt used for password 1, and the cracked password for password 1.
- ☐ The third line should contain the username corresponding to password 2, the salt used for password 2, and the cracked password for password 2.
- ☐ The fourth line should contain the username corresponding to password 3, the salt used for password 3, and the cracked password for password 3.
- ☐ The fifth line should contain the username corresponding to password 4, the salt used for password 4, and the cracked password for password 4.
- ☐ The sixth line should contain the username corresponding to password 5, the salt used for password 5, and the cracked password for password 5.

In each line, separate your answers with a comma, with no space in between each answer. Refer to the below example for formatting help. Each line should have three pieces of information: the username, the salt, and the password.

Each field is weighted equally in scoring. You will get points for each ciphertext you get correct. You will get 10 tries to submit before you will not be able to submit anymore.

Example Submission

```
pleasant_boat
cshuping,2de,peach
rnorth,0a3,banana08
cdagler,th5,!apple$%
lrodriguez,je3,p14!73d
msteele,fj1,kfplhr
```