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readme.md

Cryptography - SH4-32

In this challenge, we were given a hash value as follows.

```
9be9f4182c157b8d77f97d3b20f68ed6b8533175831837c761e759c44f6feeb8
```

Using the hash analyzer from tunnelsup.com, we know that this is a SHA2-256 type of hash value.

Hash:	9be9f4182c157b8d77f97d3b20f68ed6b8533175831837c761e759c44f6feeb8
Salt:	Not Found
Hash type:	SHA2-256
Bit length:	256
Character length:	64
Character type:	hexidecimal

Also, we were given an attachment named Dictionary.txt that contains many lines of random strings.

```
123456
123456789
111111
password
qwerty
```

```
abc123
12345678
password1
...
...
...
```

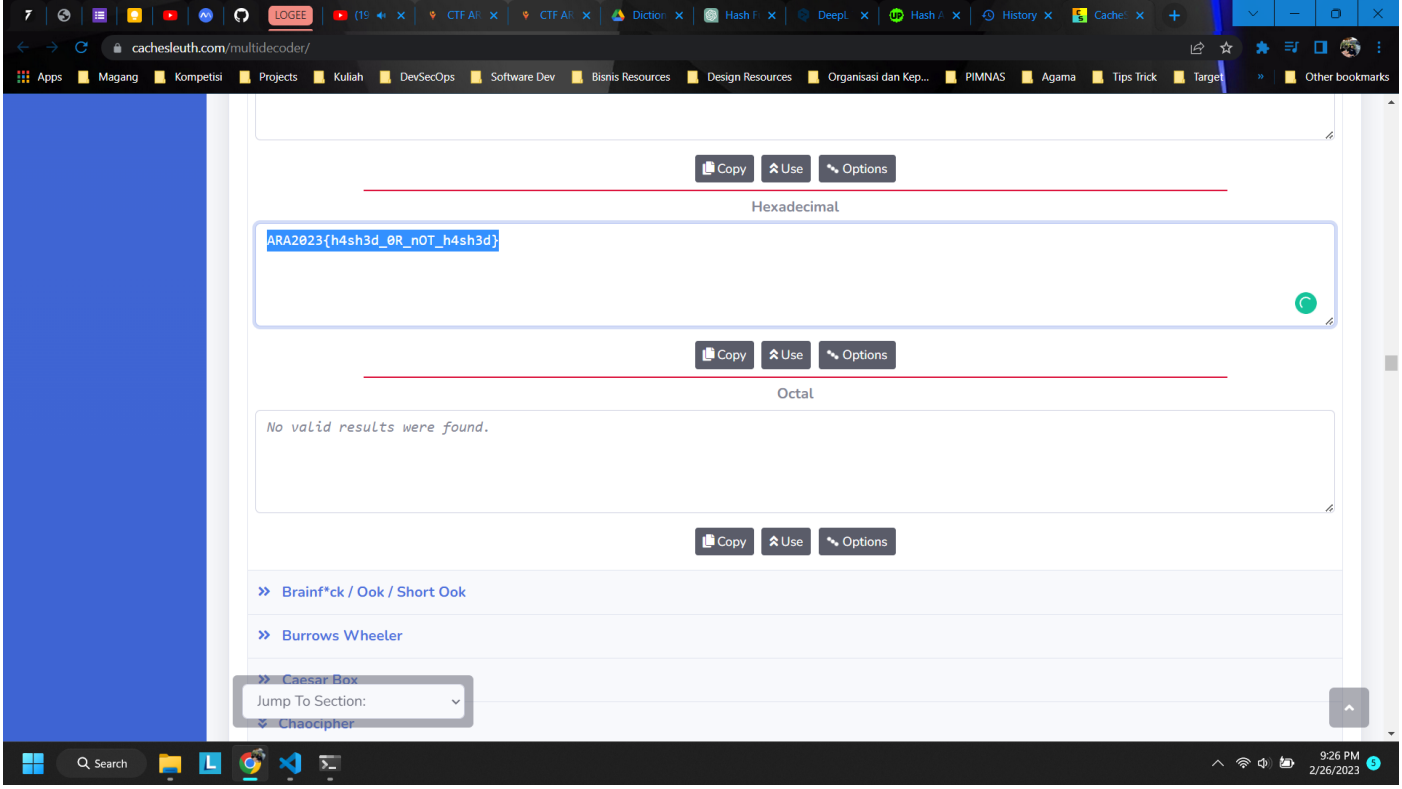
As we know, the SHA2-256 type of hash can't be decrypted. So we try to encrypt the all of strings in the `Dictionary.txt` to find which string that have the encrypted string of SHA2-256 that same as the hash provided in the challenge. We use this script.

```python
import hashlib

with open('Dictionary.txt', 'r') as f:

    for line in f:
        line = line.strip()

        sha256_hash = hashlib.sha256(line.encode()).hexdigest()
        expected = "9be9f4182c157b8d77f97d3b20f68ed6b8533175831837c761e759c44f6feeb8"

        if sha256_hash == expected:
            print(f"{line} : {sha256_hash}")
```

We found this string.

```
415241323032337b6834736833645f30525f6e4f545f6834736833647d
```

Try to convert it into hexadecimal, we got the flag. Thanks to cachesleuth.



So, this is the flag.

```
ARA2023{h4sh3d_0R_nOT_h4sh3d}
```

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