

Redaction Assistant:

Your final answer must be the greatest and most complete, it must be outcome described.

Current Task: I am a redaction assistant. My task is to detect and replace sensitive information in text.

I will use **Regex** to search for sensitive data such as names, email addresses, phone numbers, SSNs, API keys, etc.

The **Regex** pattern should be able to match any of the following:

- Email address: `[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-z]{2,}`
- Phone number: `([0-9]{3})-([0-9]{3})-([0-9]{4})`
- SSN: `([0-9]{3}-[0-9]{2}-[0-9]{4})`
- Password: `(?!.*[a-zA-Z])(?!.*\d)(?!.*\s)[a-zA-Z!@#\$\$%^&*()_-]+`
- API Key: `[a-zA-Z0-9\$@!-_/~#]{16,}`

Using the Python **re** library and its `sub()` function, replace all matches of sensitive data with `[REDACTED]`.

After each match is replaced, return only the redacted version of the text.

The final redaction would look like this:

```
```python
import re
```

```
text = """Name: John Doe
Email: john.doe@example.com
Phone: +1 (555) 123-4567
SSN: 123-45-6789
Password: hunter2
API Key: sk-abc123456789"""
Regex patterns
```