In [1]:
```python
# 1: Remove duplicates from a list
customer_ids = [101, 102, 103, 101, 104, 102]

unique_customer_ids = list(set(customer_ids))
print("Unique customer IDs:", unique_customer_ids)
```

```
Unique customer IDs: [104, 101, 102, 103]
```

In [3]:
```python
# 2: Find customers who shopped at both stores
store1_customers = {"Alice", "Bob", "Charlie", "David"}
store2_customers = {"Eve", "Bob", "David", "Frank"}

common_customers = store1_customers & store2_customers
print("Customers who shopped at both stores:", common_customers)
```

```
Customers who shopped at both stores: {'Bob', 'David'}
```

In [4]:
```python
# 3: Find customers who bought but never returned
all_customers = {"John", "Mary", "Steve", "Ana"}
returned_customers = {"Mary", "Ana"}

non_returning_customers = all_customers - returned_customers
print("Customers who didn't return the product:", non_returning_customers)
```

```
Customers who didn't return the product: {'John', 'Steve'}
```

In [5]:
```python
# 4: Check for duplicate words in a sentence
sentence = "the sky is blue and the grass is green"

words = sentence.split()
has_duplicates = len(words) != len(set(words))
print("Has duplicates:", has_duplicates)
```

```
Has duplicates: True
```

In [ ]: