

```
1  # Prints all titles in CSV using csv.reader
2
3  import csv
4
5  # Open CSV file
6  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
7
8      # Create reader
9      reader = csv.reader(file)
10
11     # Skip header row
12     next(reader)
13
14     # Iterate over CSV file, printing each title
15     for row in reader:
16         print(row[1])
```

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```
1 # Prints all titles in CSV using csv.DictReader
2
3 import csv
4
5 # Open CSV file
6 with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
7
8     # Create DictReader
9     reader = csv.DictReader(file)
10
11     # Iterate over CSV file, printing each title
12     for row in reader:
13         print(row["title"])
```

```
1  # Prints unique titles in CSV, case sensitively
2
3  import csv
4
5  # For accumulating (and later sorting) titles
6  titles = set()
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file, adding each title to set
15     for row in reader:
16         titles.add(row["title"])
17
18 # Print titles in sorted order
19 for title in sorted(titles):
20     print(title)
```

```
1  # Prints unique titles in CSV, case insensitively
2
3  import csv
4
5  # For accumulating (and later sorting) titles
6  titles = set()
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file, adding each (uppercased) title to set
15     for row in reader:
16         titles.add(row["title"].strip().upper())
17
18 # Print titles in sorted order
19 for title in sorted(titles):
20     print(title)
```

```
1  # Prints popularity of titles in CSV, sorted by title
2
3  import csv
4
5  # For accumulating (and later sorting) titles
6  titles = {}
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file, adding each (uppercased) title to dictionary
15     for row in reader:
16
17         # Canoncalize title
18         title = row["title"].strip().upper()
19
20         # Count title
21         if title in titles:
22             titles[title] += 1
23         else:
24             titles[title] = 1
25
26     # Print titles in sorted order
27     for title in sorted(titles):
28         print(title, titles[title])
```

```
1  # Prints popularity of titles in CSV, sorted by popularity
2
3  import csv
4
5  # For accumulating (and later sorting) titles
6  titles = {}
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file, adding each (uppercased) title to dictionary
15     for row in reader:
16
17         # Canoncalize title
18         title = row["title"].strip().upper()
19
20         # Count title
21         if title in titles:
22             titles[title] += 1
23         else:
24             titles[title] = 1
25
26     # Function for comparing titles by popularity
27     def f(title):
28         return titles[title]
29
30     # Print titles in sorted order
31     for title in sorted(titles, key=f, reverse=True):
32         print(title, titles[title])
```

```
1  # Prints popularity of titles in CSV, sorted by popularity, using a lambda function
2
3  import csv
4
5  # For accumulating (and later sorting) titles
6  titles = {}
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file
15     for row in reader:
16
17         # Canoncalize title
18         title = row["title"].strip().upper()
19
20         # Update counter
21         if title in titles:
22             titles[title] += 1
23         else:
24             titles[title] = 1
25
26     # Print titles in sorted order
27     for title in sorted(titles, key=lambda title: titles[title], reverse=True):
28         print(title, titles[title])
```

```
1  # Searches CSV for popularity of a title
2
3  import csv
4
5  # Prompt user for title
6  title = input("Title: ").strip().upper()
7
8  # Open CSV file
9  with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
10
11     # Create DictReader
12     reader = csv.DictReader(file)
13
14     # Iterate over CSV file, counting favorites
15     counter = 0
16     for row in reader:
17         if row["title"].strip().upper() == title:
18             counter += 1
19
20 # Print popularity
21 print(counter)
```



```
1  # Imports titles and genres from CSV into a SQLite database
2
3  import cs50
4  import csv
5
6  # Create database
7  open("shows.db", "w").close()
8  db = cs50.SQL("sqlite:///shows.db")
9
10 # Create tables
11 db.execute("CREATE TABLE shows (id INTEGER, title TEXT, PRIMARY KEY(id))")
12 db.execute("CREATE TABLE genres (show_id INTEGER, genre TEXT, FOREIGN KEY(show_id) REFERENCES shows(id))")
13
14 # Open CSV file
15 with open("Favorite TV Shows - Form Responses 1.csv", "r") as file:
16
17     # Create DictReader
18     reader = csv.DictReader(file)
19
20     # Iterate over CSV file
21     for row in reader:
22
23         # Canoncalize title
24         title = row["title"].strip().upper()
25
26         # Insert title
27         id = db.execute("INSERT INTO shows (title) VALUES(?)", title)
28
29         # Insert genres
30         for genre in row["genres"].split(", "):
31             db.execute("INSERT INTO genres (show_id, genre) VALUES(?, ?)", id, genre)
```

```
1  # Searches CSV for popularity of a title
2
3  import csv
4
5  from cs50 import SQL
6
7  # Open database
8  db = SQL("sqlite:///shows.db")
9
10 # Prompt user for title
11 title = input("Title: ").strip().upper()
12
13 # Search for title
14 rows = db.execute("SELECT COUNT(*) AS counter FROM shows WHERE title = ?", title)
15
16 # Print popularity
17 print(rows[0]["counter"])
```