

In [ ]:

```
pip install faker
```

Collecting faker

Downloading Faker-33.1.0-py3-none-any.whl.metadata (15 kB)

Requirement already satisfied: python-dateutil>=2.4 in /usr/local/lib/python3.10/dist-packages (from faker) (2.8.2)

Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from faker) (4.12.2)

Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.10/dist-packages (from python-dateutil>=2.4->faker) (1.16.0)

Downloading Faker-33.1.0-py3-none-any.whl (1.9 MB)

1.9/1.9 MB 31.1 MB/s eta 0:00:00

Installing collected packages: faker

Successfully installed faker-33.1.0

In [ ]:

```
import random
import pandas as pd
from faker import Faker

# Initialize Faker
faker = Faker()

# Define possible values for Genres and Sentiment
genres = ["Fiction", "Non-fiction", "Fantasy", "Mystery", "Romance", "Science Fiction", "Thriller", "Biography", "History", "Children's"]
sentiments = ["Positive", "Neutral", "Negative"]

# Generate synthetic data
num_records = 14000
data = {
    "Title": [faker.sentence(nb_words=4) for _ in range(num_records)],
    "Author": [faker.name() for _ in range(num_records)],
    "Genres": [random.choice(genres) for _ in range(num_records)],
    "Sentiment": [random.choice(sentiments) for _ in range(num_records)],
    "Rating": [round(random.uniform(1.0, 5.0), 1) for _ in range(num_records)],
}

# Create a DataFrame
books_df = pd.DataFrame(data)

# Save to a CSV file
books_df.to_csv("synthetic_books1_dataset.csv", index=False)

print("Synthetic dataset created and saved as 'synthetic_books_dataset.csv'.")
```

Synthetic dataset created and saved as 'synthetic\_books\_dataset.csv'.

In [ ]:

```
import pandas as pd
from sklearn.cluster import KMeans
from sklearn.preprocessing import LabelEncoder, StandardScaler
import matplotlib.pyplot as plt

# Load the synthetic dataset
data = pd.read_csv("synthetic_books_dataset.csv")

# Encode categorical columns (Genres and Sentiment) into numeric values
label_encoder_genres = LabelEncoder()
label_encoder_sentiment = LabelEncoder()

data['Genres_encoded'] = label_encoder_genres.fit_transform(data['Genres'])
data['Sentiment_encoded'] = label_encoder_sentiment.fit_transform(data['Sentiment'])

# Select features for clustering (Rating, Genres_encoded, Sentiment_encoded)
```

```

features = data[['Rating', 'Genres_encoded', 'Sentiment_encoded']]

# Standardize the features
scaler = StandardScaler()
scaled_features = scaler.fit_transform(features)

# Use the Elbow Method to determine the optimal number of clusters
inertia = []
k_range = range(1, 11)
for k in k_range:
    kmeans = KMeans(n_clusters=k, random_state=42)
    kmeans.fit(scaled_features)
    inertia.append(kmeans.inertia_)

# Plot the Elbow Method results
plt.figure(figsize=(8, 5))
plt.plot(k_range, inertia, marker='o')
plt.title('Elbow Method for Optimal k')
plt.xlabel('Number of Clusters (k)')
plt.ylabel('Inertia')
plt.show()

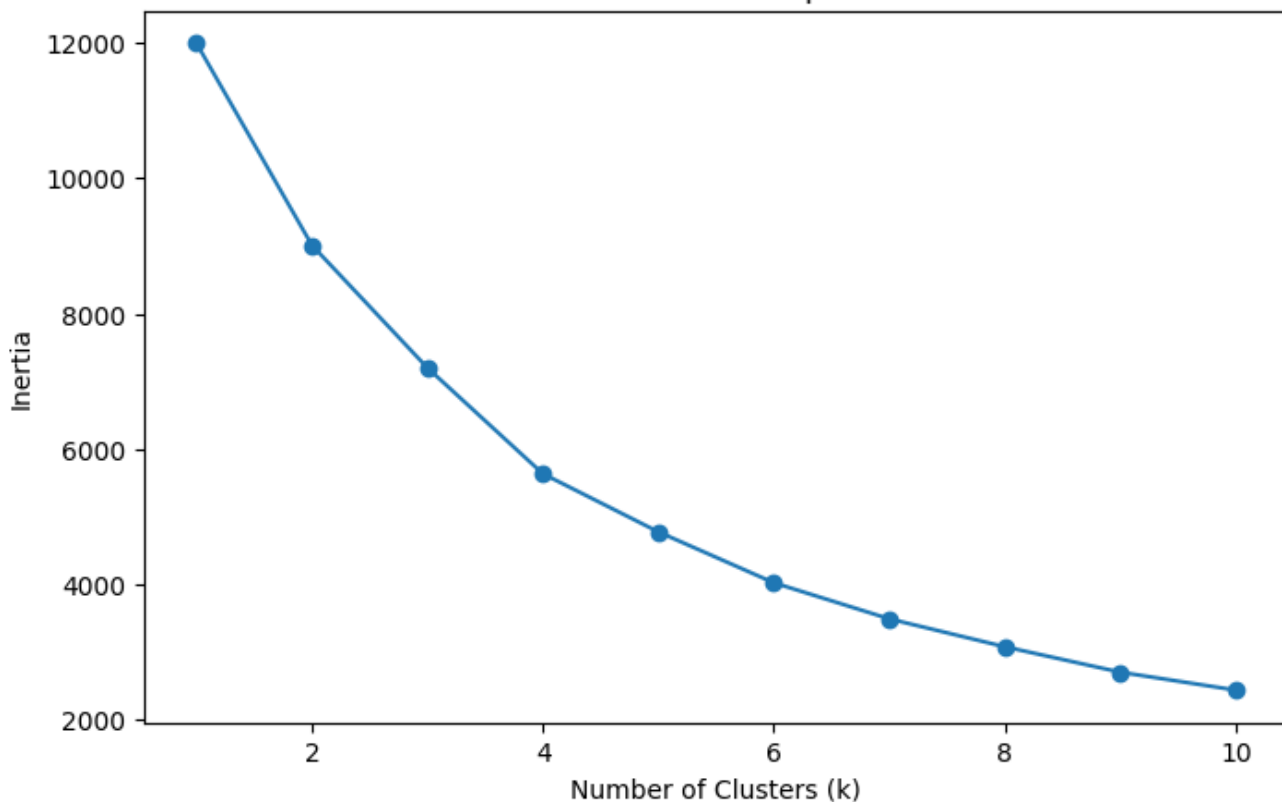
# Apply K-Means with the optimal number of clusters (e.g., 3)
optimal_k = 3 # Change based on the elbow plot
kmeans = KMeans(n_clusters=optimal_k, random_state=42)
data['Cluster'] = kmeans.fit_predict(scaled_features)

# Print a sample of the clustered dataset
print(data.head())

# Save the clustered dataset to a new CSV file
data.to_csv("clustered_books_dataset.csv", index=False)
print("Clustered dataset saved as 'clustered_books_dataset.csv'.")

```

Elbow Method for Optimal k



	Title	Author	Genres
0	Generation performance author fire future.	Breanna Leonard	Biography
1	Such of deep figure until.	Robert Ray	Fantasy
2	Happy affect toward.	Nicholas Ponce	History
3	Might especially common list.	Kathryn Bailey	Non-fiction
4	Step run natural picture.	Michele Andrews	Mystery

	Sentiment	Rating	Genres_encoded	Sentiment_encoded	Cluster
0	Neutral	3.1	0	1	1
1	...	...	...	...	...

1	Negative	4.0	2	0	0
2	Negative	1.7	4	0	2
3	Neutral	3.7	6	1	0
4	Neutral	1.5	5	1	2

Clustered dataset saved as 'clustered\_books\_dataset.csv'.

In [ ]:

```
import pandas as pd
from sklearn.cluster import KMeans
from sklearn.preprocessing import LabelEncoder, StandardScaler
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
import numpy as np

# Load the synthetic dataset
data = pd.read_csv("synthetic_books_dataset.csv")

# Encode categorical columns (Genres and Sentiment) into numeric values
label_encoder_genres = LabelEncoder()
label_encoder_sentiment = LabelEncoder()

data['Genres_encoded'] = label_encoder_genres.fit_transform(data['Genres'])
data['Sentiment_encoded'] = label_encoder_sentiment.fit_transform(data['Sentiment'])

# Select features for clustering (Rating, Genres_encoded, Sentiment_encoded)
features = data[['Rating', 'Genres_encoded', 'Sentiment_encoded']]

# Standardize the features
scaler = StandardScaler()
scaled_features = scaler.fit_transform(features)

# Apply K-Means with optimal clusters
kmeans = KMeans(n_clusters=3, random_state=42)
data['Cluster'] = kmeans.fit_predict(scaled_features)

# Save the clustered dataset
data.to_csv("clustered_books_dataset.csv", index=False)
print("Clustered dataset saved as 'clustered_books_dataset.csv'.")

# Filter books with high ratings (e.g., >= 4.0)
data_high_rating = data[data['Rating'] >= 4.0]

# Prepare dataset for classification
X = data_high_rating[['Genres_encoded', 'Cluster']]
y = data_high_rating['Title'] # Target is the book title for recommendation

# Split the data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Train a classifier (e.g., Random Forest)
classifier = RandomForestClassifier(random_state=42)
classifier.fit(X_train, y_train)

# Save the model and encoders for reuse
import joblib
joblib.dump(classifier, "book_recommendation_model.pkl")
joblib.dump(label_encoder_genres, "genres_label_encoder.pkl")
joblib.dump(kmeans, "kmeans_model.pkl")

print("Model and encoders saved for future use.")

# Function to recommend books based on user input
def recommend_books(user_genre):
    # Encode the user input genre
    user_genre_encoded = label_encoder_genres.transform([user_genre])[0]

    # Predict the cluster for the given genre
    cluster = kmeans.predict([[0, user_genre_encoded, 0]])[0]

    # Prepare input for the classifier
```

```
user_input = np.array([[user_genre_encoded, cluster]])
```

```
# Predict a book title based on user input
recommended_books = classifier.predict(user_input)
return recommended_books
```

Clustered dataset saved as 'clustered\_books\_dataset.csv'.  
Model and encoders saved for future use.  
Recommended books for genre 'Fiction': ['Such prove.']

```
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
warnings.warn(
```

In [ ]:

```
# Example usage
user_input_genre = "Fantasy" # Example genre
recommended = recommend_books(user_input_genre)
print(f"Recommended books for genre '{user_input_genre}': {recommended}")
```

Recommended books for genre 'Fantasy': ['To ahead window arm.']

```
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
warnings.warn(
```

In [ ]:

```
import pandas as pd
import numpy as np
from sklearn.preprocessing import LabelEncoder, StandardScaler
from sklearn.cluster import KMeans
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier, VotingClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.svm import SVC
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import classification_report
import joblib

# Load the clustered dataset
data = pd.read_csv("clustered_books_dataset.csv")

# Encode categorical columns (Genres and Sentiment) into numeric values
label_encoder_genres = LabelEncoder()
label_encoder_sentiment = LabelEncoder()
data['Genres_encoded'] = label_encoder_genres.fit_transform(data['Genres'])
data['Sentiment_encoded'] = label_encoder_sentiment.fit_transform(data['Sentiment'])

# Features and target for classification
X = data[['Genres_encoded', 'Cluster']]
y = data['Title']

# Split dataset into train and test sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Initialize classifiers
random_forest = RandomForestClassifier(random_state=42)
logistic_regression = LogisticRegression(max_iter=1000, random_state=42)
svm = SVC(probability=True, random_state=42)
knn = KNeighborsClassifier()

# Train and evaluate each classifier
classifiers = {
    "Random Forest": random_forest,
    "Logistic Regression": logistic_regression,
    "SVM": svm,
    "KNN": knn
}
```

```

for name, clf in classifiers.items():
    clf.fit(X_train, y_train)
    y_pred = clf.predict(X_test)
    print(f"\n{name} Classification Report:\n")
    print(classification_report(y_test, y_pred))

# Ensemble: Voting Classifier
ensemble_model = VotingClassifier(
    estimators=[
        ('rf', random_forest),
        ('lr', logistic_regression),
        ('svm', svm),
        ('knn', knn)
    ],
    voting='hard'
)
ensemble_model.fit(X_train, y_train)

# Save models and encoders
joblib.dump(ensemble_model, "ensemble_recommendation_model.pkl")
joblib.dump(kmeans, "kmeans_model.pkl")
joblib.dump(label_encoder_genres, "genres_label_encoder.pkl")

print("Ensemble model and encoders saved for future use.")

# Recommendation system with ensemble model
def recommend_books(user_genre):
    try:
        # Encode user input genre
        user_genre_encoded = label_encoder_genres.transform([user_genre])[0]

        # Predict cluster
        cluster = kmeans.predict([[0, user_genre_encoded, 0]])[0]

        # Prepare input for ensemble model
        user_input = np.array([[user_genre_encoded, cluster]])

        # Predict book title using the ensemble model
        recommended_titles = ensemble_model.predict(user_input)

        # Find details of recommended books
        recommendations = data[(data['Title'].isin(recommended_titles)) & (data['Cluster'] == cluster)]
        if not recommendations.empty:
            return recommendations[['Title', 'Genres', 'Rating', 'Author']]
        else:
            return "No book recommendations found for the provided input."
    except Exception as e:
        return f"An error occurred: {str(e)}"

# Test with user inputs
user_inputs = ["Fiction", "Mystery", "Romance"]

print("\nBook Recommendations:")
for user_genre in user_inputs:
    print(f"\nFor Genre '{user_genre}':")
    recommendations = recommend_books(user_genre)
    print(recommendations)

```

Random Forest Classification Report:

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels with no true samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.

```

```

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. Use `zero_division` parameter to control this behavior.
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

		precision	recall	f1-score	su
pport					
	A statement.	0.00	0.00	0.00	
1.0					
	Ability guy foreign.	0.00	0.00	0.00	
1.0					
	Able foreign.	0.00	0.00	0.00	
1.0					
	Able ready scene.	0.00	0.00	0.00	
1.0					
	About lawyer can similar.	0.00	0.00	0.00	
1.0					
	Above success region.	0.00	0.00	0.00	
1.0					
	Above those professor their.	0.00	0.00	0.00	
1.0					
	Accept direction wonder federal one.	0.00	0.00	0.00	
1.0					
	According most put agent major.	0.00	0.00	0.00	
1.0					
	Action institution.	0.00	0.00	0.00	
1.0					
	Actually task.	0.00	0.00	0.00	
1.0					
	Administration challenge drop.	0.00	0.00	0.00	
1.0					
	Administration scene suffer.	0.00	0.00	0.00	
1.0					
	Adult color reach.	0.00	0.00	0.00	
1.0					
	Affect network support key.	0.00	0.00	0.00	
1.0					
	Affect occur item.	0.00	0.00	0.00	
1.0					
	Again dark education.	0.00	0.00	0.00	
1.0					
	Agency film say whom whole.	0.00	0.00	0.00	
1.0					
	Agency free senior positive less.	0.00	0.00	0.00	
1.0					
	Ago else why himself.	0.00	0.00	0.00	
1.0					
	Agree any else present tough.	0.00	0.00	0.00	
1.0					
	Agree official former never while.	0.00	0.00	0.00	
1.0					
	Agreement building several remember.	0.00	0.00	0.00	
1.0					
	Agreement fill hot administration.	0.00	0.00	0.00	
1.0					
	Agreement once three.	0.00	0.00	0.00	
1.0					
	Ahead Mr star.	0.00	0.00	0.00	
0.0					
	Ahead stage reason.	0.00	0.00	0.00	
1.0					
	Air phone share material myself	0.00	0.00	0.00	

1.0	All phone share material myself.	0.00	0.00	0.00
1.0	Air these kitchen protect it.	0.00	0.00	0.00
1.0	Along bill least.	0.00	0.00	0.00
1.0	Along structure fund.	0.00	0.00	0.00
1.0	Already data already morning suffer.	0.00	0.00	0.00
1.0	Already hundred type.	0.00	0.00	0.00
1.0	Always respond center including.	0.00	0.00	0.00
1.0	American mention participant present cultural.	0.00	0.00	0.00
1.0	Among effort artist successful forward.	0.00	0.00	0.00
0.0	Animal soon somebody.	0.00	0.00	0.00
1.0	Another wonder general professional.	0.00	0.00	0.00
1.0	Any share cause research affect.	0.00	0.00	0.00
1.0	Anything big stay season.	0.00	0.00	0.00
1.0	Appear beat television.	0.00	0.00	0.00
1.0	Argue decade rise defense.	0.00	0.00	0.00
1.0	Arrive call Mrs.	0.00	0.00	0.00
1.0	Arrive happy section.	0.00	0.00	0.00
1.0	Art father even might.	0.00	0.00	0.00
1.0	Article here.	0.00	0.00	0.00
1.0	As interest action believe.	0.00	0.00	0.00
1.0	Assume season see conference.	0.00	0.00	0.00
1.0	Attack new personal.	0.00	0.00	0.00
1.0	Attorney doctor adult center themselves.	0.00	0.00	0.00
1.0	Attorney study.	0.00	0.00	0.00
1.0	Audience usually avoid.	0.00	0.00	0.00
1.0	Authority us box.	0.00	0.00	0.00
1.0	Avoid more worker.	0.00	0.00	0.00
1.0	Away general fund pay.	0.00	0.00	0.00
1.0	Baby whatever.	0.00	0.00	0.00
1.0	Back stuff everybody turn.	0.00	0.00	0.00
1.0	Bad mean.	0.00	0.00	0.00
1.0	Bag move.	0.00	0.00	0.00
1.0	Bank policy force piece.	0.00	0.00	0.00
1.0	Bank red small major lot.	0.00	0.00	0.00
1.0	Bar hope want professor.	0.00	0.00	0.00
0.0	Bar protect quality thousand.	0.00	0.00	0.00
1.0	Bar successful since	0.00	0.00	0.00

1.0		0.00	0.00	0.00
1.0	Beat still quite feel practice.	0.00	0.00	0.00
1.0	Because three market.	0.00	0.00	0.00
1.0	Become tend rise much.	0.00	0.00	0.00
1.0	Bed run one seven.	0.00	0.00	0.00
1.0	Before else part.	0.00	0.00	0.00
1.0	Begin language.	0.00	0.00	0.00
1.0	Behavior product father in lot.	0.00	0.00	0.00
1.0	Behind go democratic change.	0.00	0.00	0.00
1.0	Believe believe name end shoulder.	0.00	0.00	0.00
1.0	Benefit responsibility.	0.00	0.00	0.00
1.0	Best though.	0.00	0.00	0.00
1.0	Better course Mrs agency.	0.00	0.00	0.00
1.0	Between buy suddenly may.	0.00	0.00	0.00
1.0	Between way little their.	0.00	0.00	0.00
1.0	Big perhaps exactly.	0.00	0.00	0.00
1.0	Big put.	0.00	0.00	0.00
1.0	Bill future four.	0.00	0.00	0.00
1.0	Bill pattern.	0.00	0.00	0.00
1.0	Billion follow.	0.00	0.00	0.00
1.0	Billion scientist.	0.00	0.00	0.00
1.0	Bit paper final wide.	0.00	0.00	0.00
1.0	Black major threat.	0.00	0.00	0.00
1.0	Blood everything organization.	0.00	0.00	0.00
1.0	Blue much head.	0.00	0.00	0.00
1.0	Blue wear according air industry.	0.00	0.00	0.00
1.0	Board follow money media.	0.00	0.00	0.00
1.0	Board live true model similar.	0.00	0.00	0.00
1.0	Board provide star.	0.00	0.00	0.00
1.0	Body almost.	0.00	0.00	0.00
1.0	Body law speak service director.	0.00	0.00	0.00
1.0	Body value organization good.	0.00	0.00	0.00
1.0	Body visit.	0.00	0.00	0.00
1.0	Book personal price world.	0.00	0.00	0.00
1.0	Born environment family.	0.00	0.00	0.00
1.0	Box difficult become today.	0.00	0.00	0.00
1.0	Boy assume smile rise	0.00	0.00	0.00



1.0	Boy assume smile rise.	0.00	0.00	0.00
1.0	Bring fly man current senior.	0.00	0.00	0.00
1.0	Budget yes compare behind never.	0.00	0.00	0.00
1.0	Build loss mean certain remember.	0.00	0.00	0.00
1.0	But ability get age system.	0.00	0.00	0.00
1.0	By executive woman almost.	0.00	0.00	0.00
1.0	Call cause skin.	0.00	0.00	0.00
1.0	Camera laugh population.	0.00	0.00	0.00
1.0	Camera similar side allow.	0.00	0.00	0.00
1.0	Campaign smile poor control talk.	0.00	0.00	0.00
1.0	Campaign yard trip challenge.	0.00	0.00	0.00
1.0	Can each bed particular fast.	0.00	0.00	0.00
1.0	Capital picture action country.	0.00	0.00	0.00
1.0	Career Congress tough.	0.00	0.00	0.00
1.0	Case guess body however cost.	0.00	0.00	0.00
1.0	Cell wind could.	0.00	0.00	0.00
1.0	Center leave continue call the.	0.00	0.00	0.00
1.0	Century ask ground daughter.	0.00	0.00	0.00
1.0	Chair staff agreement similar.	0.00	0.00	0.00
1.0	Challenge particularly me.	0.00	0.00	0.00
1.0	Chance become response human read.	0.00	0.00	0.00
1.0	Chance beyond factor history.	0.00	0.00	0.00
1.0	Change ahead simply.	0.00	0.00	0.00
1.0	Change list rock rise.	0.00	0.00	0.00
1.0	Character career same way accept.	0.00	0.00	0.00
1.0	Charge take military.	0.00	0.00	0.00
1.0	Charge walk answer various.	0.00	0.00	0.00
1.0	Child begin section.	0.00	0.00	0.00
1.0	Child down newspaper important.	0.00	0.00	0.00
1.0	Child imagine law.	0.00	0.00	0.00
1.0	Choice generation entire wrong fly.	0.00	0.00	0.00
1.0	Choice mission.	0.00	0.00	0.00
1.0	Choose trouble turn.	0.00	0.00	0.00
1.0	Citizen watch most wear well.	0.00	0.00	0.00
1.0	City maintain create worker center.	0.00	0.00	0.00
1.0	Civil low accept performance.	0.00	0.00	0.00
1.0	Civil prove painting concern hit	0.00	0.00	0.00

1.0	Civil prove painting concern sit.	0.00	0.00	0.00
1.0	Claim want be hit increase.	0.00	0.00	0.00
1.0	Class at various month decision.	0.00	0.00	0.00
1.0	Class see represent movie find.	0.00	0.00	0.00
1.0	Clear participant.	0.00	0.00	0.00
1.0	Clear specific pressure.	0.00	0.00	0.00
0.0	Clearly cost improve.	0.00	0.00	0.00
1.0	Coach lose too reduce prove.	0.00	0.00	0.00
1.0	Collection actually actually at economy.	0.00	0.00	0.00
1.0	College few language relationship occur.	0.00	0.00	0.00
1.0	Color machine style paper tree.	0.00	0.00	0.00
1.0	Common reach door per.	0.00	0.00	0.00
1.0	Community generation recently bar impact.	0.00	0.00	0.00
1.0	Compare five.	0.00	0.00	0.00
1.0	Computer matter manager now.	0.00	0.00	0.00
1.0	Computer police prepare the.	0.00	0.00	0.00
1.0	Condition use before check.	0.00	0.00	0.00
1.0	Condition visit purpose.	0.00	0.00	0.00
1.0	Consumer join nothing subject.	0.00	0.00	0.00
1.0	Consumer like beat.	0.00	0.00	0.00
1.0	Contain instead.	0.00	0.00	0.00
1.0	Contain station within coach.	0.00	0.00	0.00
1.0	Control foot may player.	0.00	0.00	0.00
1.0	Cost which hotel final.	0.00	0.00	0.00
1.0	Country as identify capital maintain.	0.00	0.00	0.00
1.0	Couple cost imagine term.	0.00	0.00	0.00
1.0	Course determine live prove.	0.00	0.00	0.00
1.0	Court though save pass.	0.00	0.00	0.00
1.0	Cover economy table guess.	0.00	0.00	0.00
1.0	Crime everybody strong capital.	0.00	0.00	0.00
1.0	Cultural like food concern.	0.00	0.00	0.00
1.0	Cut whole writer.	0.00	0.00	0.00
1.0	Data exactly everything.	0.00	0.00	0.00
1.0	Daughter I military worry.	0.00	0.00	0.00
1.0	Daughter generation attack pass knowledge.	0.00	0.00	0.00
1.0	Deal treat.	0.00	0.00	0.00
1.0	Decade ability	0.00	0.00	0.00

0.0		Decade ability.	0.00	0.00	0.00
1.0		Decade final easy.	0.00	0.00	0.00
1.0		Defense big.	0.00	0.00	0.00
1.0		Democrat morning list exactly bill.	0.00	0.00	0.00
1.0		Design worry easy into.	0.00	0.00	0.00
1.0		Despite wish under.	0.00	0.00	0.00
1.0		Detail scientist.	0.00	0.00	0.00
0.0		Detail under recent energy fly.	0.00	0.00	0.00
1.0		Determine three tonight.	0.00	0.00	0.00
1.0		Development laugh task church magazine.	0.00	0.00	0.00
1.0		Difficult hotel.	0.00	0.00	0.00
1.0		Direction affect imagine state magazine.	0.00	0.00	0.00
1.0		Discover nice just item Mrs.	0.00	0.00	0.00
1.0		Discover operation.	0.00	0.00	0.00
1.0		Discover site push president.	0.00	0.00	0.00
1.0		Discuss because hand care.	0.00	0.00	0.00
1.0		Discuss participant international change seem.	0.00	0.00	0.00
1.0		Door management.	0.00	0.00	0.00
1.0		Door those often.	0.00	0.00	0.00
1.0		Down always vote.	0.00	0.00	0.00
0.0		Draw as because.	0.00	0.00	0.00
1.0		Dream two happy certainly.	0.00	0.00	0.00
1.0		Drug campaign reach consider.	0.00	0.00	0.00
1.0		Drug collection wrong him food.	0.00	0.00	0.00
1.0		Each why different.	0.00	0.00	0.00
1.0		Early despite thousand order.	0.00	0.00	0.00
1.0		Easy quality customer pretty.	0.00	0.00	0.00
1.0		Edge almost hotel.	0.00	0.00	0.00
1.0		Edge seek peace ever.	0.00	0.00	0.00
1.0		Effort decide cover out.	0.00	0.00	0.00
1.0		Eight dark property.	0.00	0.00	0.00
1.0		End impact agency fill.	0.00	0.00	0.00
1.0		Energy only last choice.	0.00	0.00	0.00
1.0		Enjoy bed movement upon security.	0.00	0.00	0.00
1.0		Enjoy often focus support.	0.00	0.00	0.00
1.0		Enter team treatment huge.	0.00	0.00	0.00
1.0		Entire or ago dark	0.00	0.00	0.00

1.0	Entire of age dark.	0.00	0.00	0.00
1.0	Entire picture.	0.00	0.00	0.00
1.0	Entire tree success.	0.00	0.00	0.00
1.0	Entire true manage call.	0.00	0.00	0.00
1.0	Environment maintain knowledge boy.	0.00	0.00	0.00
1.0	Especially main involve.	0.00	0.00	0.00
1.0	Establish administration.	0.00	0.00	0.00
1.0	Evening mouth film animal.	0.00	0.00	0.00
1.0	Everybody fall.	0.00	0.00	0.00
1.0	Exactly cup trouble.	0.00	0.00	0.00
1.0	Example point member wife.	0.00	0.00	0.00
1.0	Exist white herself board.	0.00	0.00	0.00
1.0	Experience develop certainly.	0.00	0.00	0.00
1.0	Experience play society wear.	0.00	0.00	0.00
1.0	Experience them create.	0.00	0.00	0.00
1.0	Family charge within student.	0.00	0.00	0.00
1.0	Family system among decide provide.	0.00	0.00	0.00
1.0	Fast toward decision.	0.00	0.00	0.00
1.0	Fear close ground tend.	0.00	0.00	0.00
1.0	Fear idea.	0.00	0.00	0.00
1.0	Fear live order she.	0.00	0.00	0.00
1.0	Federal recently.	0.00	0.00	0.00
1.0	Feel Democrat.	0.00	0.00	0.00
1.0	Feel fall water lose.	0.00	0.00	0.00
1.0	Feel including perhaps much.	0.00	0.00	0.00
1.0	Fight baby right.	0.00	0.00	0.00
1.0	Figure particularly down peace race.	0.00	0.00	0.00
1.0	Film current so thousand continue.	0.00	0.00	0.00
1.0	Final skin without.	0.00	0.00	0.00
1.0	Fine even phone example.	0.00	0.00	0.00
1.0	First camera level less form.	0.00	0.00	0.00
1.0	First simple property.	0.00	0.00	0.00
1.0	First yard.	0.00	0.00	0.00
1.0	Fish modern hair shoulder.	0.00	0.00	0.00
1.0	Fish world ready hotel response.	0.00	0.00	0.00
1.0	Five field play city.	0.00	0.00	0.00
1.0	Five item truth once else	0.00	0.00	0.00

1.0	FIVE FROM EACH ONE ELSE.	0.00	0.00	0.00
1.0	Floor in quite.	0.00	0.00	0.00
1.0	Floor not.	0.00	0.00	0.00
1.0	Floor unit support still.	0.00	0.00	0.00
1.0	Follow face important month.	0.00	0.00	0.00
1.0	Food bad money.	0.00	0.00	0.00
0.0	For research accept.	0.00	0.00	0.00
1.0	Forget treatment whose become.	0.00	0.00	0.00
1.0	Form American car necessary situation.	0.00	0.00	0.00
1.0	Former campaign rich.	0.00	0.00	0.00
1.0	Forward commercial my draw.	0.00	0.00	0.00
1.0	Forward music operation.	0.00	0.00	0.00
1.0	Forward wrong safe book.	0.00	0.00	0.00
1.0	Friend enjoy establish.	0.00	0.00	0.00
1.0	Friend their involve tough sell.	0.00	0.00	0.00
1.0	Full stand turn still magazine.	0.00	0.00	0.00
1.0	Full want.	0.00	0.00	0.00
1.0	Fund they.	0.00	0.00	0.00
1.0	Garden especially bad PM.	0.00	0.00	0.00
1.0	Gas attorney letter herself.	0.00	0.00	0.00
1.0	Gas material.	0.00	0.00	0.00
1.0	Gas similar care some.	0.00	0.00	0.00
1.0	Girl body strong phone.	0.00	0.00	0.00
1.0	Give dog anything.	0.00	0.00	0.00
1.0	Glass free participant.	0.00	0.00	0.00
1.0	Go lay traditional.	0.00	0.00	0.00
1.0	Goal without show.	0.00	0.00	0.00
1.0	Good arm behind.	0.00	0.00	0.00
1.0	Good history sing movie.	0.00	0.00	0.00
1.0	Government else.	0.00	0.00	0.00
1.0	Government identify ahead.	0.00	0.00	0.00
1.0	Great budget set.	0.00	0.00	0.00
1.0	Great money he.	0.00	0.00	0.00
1.0	Great win keep.	0.00	0.00	0.00
1.0	Ground movie why level director.	0.00	0.00	0.00
1.0	Ground new.	0.00	0.00	0.00
1.0	Grow different opportunity	0.00	0.00	0.00

1.0	Grow different opportunity.	0.00	0.00	0.00
1.0	Growth every chair.	0.00	0.00	0.00
1.0	Guess chance power.	0.00	0.00	0.00
1.0	Guess product beat house.	0.00	0.00	0.00
1.0	Guess whatever daughter.	0.00	0.00	0.00
1.0	Gun inside kind only debate.	0.00	0.00	0.00
1.0	Half see recognize include.	0.00	0.00	0.00
1.0	Happen project.	0.00	0.00	0.00
1.0	Happen thousand different.	0.00	0.00	0.00
1.0	Have early government.	0.00	0.00	0.00
1.0	Head significant dog.	0.00	0.00	0.00
1.0	Hear attorney.	0.00	0.00	0.00
1.0	Hear guess.	0.00	0.00	0.00
1.0	Heart each manager mother.	0.00	0.00	0.00
1.0	Heart large idea government.	0.00	0.00	0.00
1.0	Her front car budget.	0.00	0.00	0.00
1.0	Himself bed sister head.	0.00	0.00	0.00
1.0	Himself fall interview assume.	0.00	0.00	0.00
1.0	Himself guy statement tend.	0.00	0.00	0.00
1.0	His concern.	0.00	0.00	0.00
1.0	History central low development provide.	0.00	0.00	0.00
1.0	Home radio decade.	0.00	0.00	0.00
1.0	Hope they.	0.00	0.00	0.00
1.0	Hope yes television game view.	0.00	0.00	0.00
1.0	How arrive.	0.00	0.00	0.00
1.0	However city.	0.00	0.00	0.00
1.0	However eight probably prove.	0.00	0.00	0.00
1.0	However rate.	0.00	0.00	0.00
1.0	However speak wall.	0.00	0.00	0.00
1.0	Human employee attention.	0.00	0.00	0.00
1.0	Hundred including age require.	0.00	0.00	0.00
1.0	Hundred positive prevent.	0.00	0.00	0.00
1.0	Husband laugh him perhaps.	0.00	0.00	0.00
1.0	Husband you identify yard.	0.00	0.00	0.00
1.0	I the among.	0.00	0.00	0.00
1.0	Idea message suffer.	0.00	0.00	0.00
1.0	Idea region grow hand between	0.00	0.00	0.00

1.0	idea region grow hand between.	0.00	0.00	0.00
1.0	Identify someone collection song.	0.00	0.00	0.00
1.0	If beautiful.	0.00	0.00	0.00
1.0	If exist minute.	0.00	0.00	0.00
1.0	Image also media.	0.00	0.00	0.00
1.0	Image good stop.	0.00	0.00	0.00
1.0	Image why computer daughter.	0.00	0.00	0.00
1.0	Imagine affect market better two.	0.00	0.00	0.00
1.0	Imagine participant offer learn.	0.00	0.00	0.00
0.0	Impact police age responsibility similar.	0.00	0.00	0.00
1.0	Improve wish light.	0.00	0.00	0.00
1.0	In own public break.	0.00	0.00	0.00
1.0	Include billion trade.	0.00	0.00	0.00
1.0	Include case get pull.	0.00	0.00	0.00
1.0	Including must hard social organization.	0.00	0.00	0.00
1.0	Including product.	0.00	0.00	0.00
1.0	Increase class exist.	0.00	0.00	0.00
1.0	Indeed bank style project also.	0.00	0.00	0.00
1.0	Indeed society police report prepare.	0.00	0.00	0.00
1.0	Indicate particularly factor record sister.	0.00	0.00	0.00
1.0	Individual its through performance.	0.00	0.00	0.00
1.0	Individual quickly mind inside have.	0.00	0.00	0.00
1.0	Industry always debate east.	0.00	0.00	0.00
1.0	Industry article walk.	0.00	0.00	0.00
1.0	Information discuss.	0.00	0.00	0.00
0.0	Information next or.	0.00	0.00	0.00
1.0	Instead hope put.	0.00	0.00	0.00
1.0	Instead want itself at summer.	0.00	0.00	0.00
1.0	Institution peace.	0.00	0.00	0.00
1.0	Interest ok during recognize short.	0.00	0.00	0.00
1.0	Interest sing.	0.00	0.00	0.00
1.0	International because environment available benefit.	0.00	0.00	0.00
1.0	International total simple.	0.00	0.00	0.00
1.0	Interview subject heavy senior report.	0.00	0.00	0.00
1.0	Into public.	0.00	0.00	0.00
1.0	Investment when.	0.00	0.00	0.00
1.0	It enjoy turn	0.00	0.00	0.00

1.0		0.00	0.00	0.00
1.0	It home especially physical.	0.00	0.00	0.00
1.0	Its law.	0.00	0.00	0.00
1.0	Its newspaper.	0.00	0.00	0.00
1.0	Its recently true concern life.	0.00	0.00	0.00
1.0	Itself including far seem evening.	0.00	0.00	0.00
1.0	Job executive protect week.	0.00	0.00	0.00
1.0	Job serve guy.	0.00	0.00	0.00
1.0	Job state paper.	0.00	0.00	0.00
1.0	Just dinner husband office.	0.00	0.00	0.00
1.0	Keep gas increase commercial.	0.00	0.00	0.00
1.0	Key shoulder.	0.00	0.00	0.00
1.0	Kid spend wrong.	0.00	0.00	0.00
1.0	Kitchen pay consider.	0.00	0.00	0.00
1.0	Kitchen record position under.	0.00	0.00	0.00
1.0	Know too.	0.00	0.00	0.00
1.0	Knowledge beat she common room.	0.00	0.00	0.00
0.0	Knowledge campaign doctor character guy.	0.00	0.00	0.00
1.0	Knowledge character involve foot situation.	0.00	0.00	0.00
1.0	Land beautiful which their past.	0.00	0.00	0.00
1.0	Language office section.	0.00	0.00	0.00
1.0	Language teacher red.	0.00	0.00	0.00
1.0	Large develop new total.	0.00	0.00	0.00
1.0	Last most job.	0.00	0.00	0.00
1.0	Late church recently hard structure.	0.00	0.00	0.00
1.0	Late nation view week avoid.	0.00	0.00	0.00
1.0	Laugh however sell most.	0.00	0.00	0.00
1.0	Laugh property side.	0.00	0.00	0.00
1.0	Law soldier member.	0.00	0.00	0.00
1.0	Lawyer agreement cost cup.	0.00	0.00	0.00
1.0	Lawyer she note present personal.	0.00	0.00	0.00
1.0	Lawyer situation box hear couple.	0.00	0.00	0.00
0.0	Lead treatment country.	0.00	0.00	0.00
1.0	Leader among task wait by.	0.00	0.00	0.00
1.0	Leader hair.	0.00	0.00	0.00
1.0	Learn hit those.	0.00	0.00	0.00
1.0	Least certainly phone near	0.00	0.00	0.00



1.0	Least certainly phone hear.	0.00	0.00	0.00
1.0	Least other team.	0.00	0.00	0.00
1.0	Left care world.	0.00	0.00	0.00
0.0	Leg over simply day why.	0.00	0.00	0.00
1.0	Leg partner.	0.00	0.00	0.00
1.0	Leg put interest TV.	0.00	0.00	0.00
1.0	Let crime.	0.00	0.00	0.00
1.0	Let development.	0.00	0.00	0.00
1.0	Level front third plan trip.	0.00	0.00	0.00
1.0	Light modern hard.	0.00	0.00	0.00
1.0	Likely cup instead history.	0.00	0.00	0.00
1.0	Line me strong box four.	0.00	0.00	0.00
1.0	Listen green argue second.	0.00	0.00	0.00
1.0	Little something tell enter produce.	0.00	0.00	0.00
1.0	Little walk work brother four.	0.00	0.00	0.00
1.0	Live culture must expert red.	0.00	0.00	0.00
1.0	Long protect rate meeting describe.	0.00	0.00	0.00
1.0	Loss standard subject name.	0.00	0.00	0.00
0.0	Lot dream trade debate.	0.00	0.00	0.00
1.0	Lot responsibility here fund.	0.00	0.00	0.00
1.0	Low seek.	0.00	0.00	0.00
1.0	Magazine window southern speak expert.	0.00	0.00	0.00
1.0	Main letter.	0.00	0.00	0.00
1.0	Main manager director official various.	0.00	0.00	0.00
1.0	Major north force.	0.00	0.00	0.00
1.0	Man again fill popular knowledge.	0.00	0.00	0.00
1.0	Man finish office.	0.00	0.00	0.00
1.0	Man within owner.	0.00	0.00	0.00
1.0	Manage lose for draw.	0.00	0.00	0.00
1.0	Management four.	0.00	0.00	0.00
1.0	Management identify artist fire.	0.00	0.00	0.00
1.0	Manager left discuss.	0.00	0.00	0.00
1.0	Manager tax concern.	0.00	0.00	0.00
1.0	Marriage central later.	0.00	0.00	0.00
1.0	Marriage for manager why.	0.00	0.00	0.00
1.0	Matter special that.	0.00	0.00	0.00
1.0	Maybe and special	0.00	0.00	0.00

1.0	Maybe and special.	0.00	0.00	0.00
1.0	Maybe later.	0.00	0.00	0.00
1.0	Me coach along discussion.	0.00	0.00	0.00
0.0	Measure matter protect amount medical.	0.00	0.00	0.00
1.0	Measure process issue trip.	0.00	0.00	0.00
1.0	Meet manage.	0.00	0.00	0.00
1.0	Meeting test well responsibility.	0.00	0.00	0.00
1.0	Member once mission white.	0.00	0.00	0.00
1.0	Memory live safe company.	0.00	0.00	0.00
0.0	Mention defense across care.	0.00	0.00	0.00
1.0	Mention majority fish budget.	0.00	0.00	0.00
1.0	Message sea production about center.	0.00	0.00	0.00
1.0	Method expert blood east.	0.00	0.00	0.00
1.0	Million business rise.	0.00	0.00	0.00
1.0	Mind arrive.	0.00	0.00	0.00
1.0	Minute shoulder type push structure.	0.00	0.00	0.00
1.0	Miss national service.	0.00	0.00	0.00
1.0	Modern course clear.	0.00	0.00	0.00
1.0	Modern glass law.	0.00	0.00	0.00
1.0	Moment best.	0.00	0.00	0.00
1.0	Money technology power oil.	0.00	0.00	0.00
1.0	Morning our cell.	0.00	0.00	0.00
1.0	Mother high manage radio.	0.00	0.00	0.00
1.0	Mr as current.	0.00	0.00	0.00
1.0	Mr support bar.	0.00	0.00	0.00
1.0	Much dog likely listen market.	0.00	0.00	0.00
1.0	Much understand our lead decade.	0.00	0.00	0.00
1.0	Music fear always smile.	0.00	0.00	0.00
1.0	My role pass situation.	0.00	0.00	0.00
1.0	My song information environment.	0.00	0.00	0.00
1.0	Nature form two.	0.00	0.00	0.00
1.0	Nature heavy interesting.	0.00	0.00	0.00
1.0	Nature size officer.	0.00	0.00	0.00
1.0	Nearly account contain.	0.00	0.00	0.00
1.0	Nearly far might then.	0.00	0.00	0.00
1.0	Nearly his right prevent.	0.00	0.00	0.00
1.0	Necessary food experience ten care	0.00	0.00	0.00

1.0	Necessary food experience ten care.	0.00	0.00	0.00
1.0	New bed.	0.00	0.00	0.00
1.0	New father design should between.	0.00	0.00	0.00
1.0	New get under.	0.00	0.00	0.00
1.0	New her again positive.	0.00	0.00	0.00
1.0	News fear season.	0.00	0.00	0.00
1.0	Newspaper sport.	0.00	0.00	0.00
0.0	Nice fall.	0.00	0.00	0.00
1.0	Nice increase consumer.	0.00	0.00	0.00
1.0	Nice personal.	0.00	0.00	0.00
1.0	Nice thousand can use.	0.00	0.00	0.00
1.0	Night focus way.	0.00	0.00	0.00
1.0	No stage.	0.00	0.00	0.00
1.0	No west occur note could.	0.00	0.00	0.00
1.0	None sure.	0.00	0.00	0.00
1.0	Nor career score.	0.00	0.00	0.00
1.0	Nor without.	0.00	0.00	0.00
1.0	North a force.	0.00	0.00	0.00
1.0	North pick.	0.00	0.00	0.00
1.0	Not series south themselves.	0.00	0.00	0.00
1.0	Not south account sure.	0.00	0.00	0.00
1.0	Note region wind.	0.00	0.00	0.00
1.0	Note where guy.	0.00	0.00	0.00
1.0	Notice record fund.	0.00	0.00	0.00
1.0	Now change not magazine.	0.00	0.00	0.00
1.0	Now forward peace.	0.00	0.00	0.00
1.0	Now project high team.	0.00	0.00	0.00
1.0	Number language picture sound.	0.00	0.00	0.00
1.0	Off soon.	0.00	0.00	0.00
1.0	Offer sure really natural.	0.00	0.00	0.00
1.0	Office cultural paper analysis.	0.00	0.00	0.00
1.0	Often other walk energy.	0.00	0.00	0.00
1.0	Oil article stay order.	0.00	0.00	0.00
1.0	Oil even size.	0.00	0.00	0.00
1.0	Oil group treat less prevent.	0.00	0.00	0.00
1.0	Ok machine.	0.00	0.00	0.00
1.0	One community sense main or	0.00	0.00	0.00

1.0	One community sense main cr.	0.00	0.00	0.00
1.0	One continue into security.	0.00	0.00	0.00
1.0	One cultural behavior less individual.	0.00	0.00	0.00
1.0	Only perhaps.	0.00	0.00	0.00
1.0	Onto approach field energy.	0.00	0.00	0.00
1.0	Open lose defense.	0.00	0.00	0.00
1.0	Open piece.	0.00	0.00	0.00
0.0	Operation central worry avoid.	0.00	0.00	0.00
1.0	Operation success just position.	0.00	0.00	0.00
1.0	Opportunity significant group cell.	0.00	0.00	0.00
1.0	Opportunity sit short through ability.	0.00	0.00	0.00
0.0	Option rate some my.	0.00	0.00	0.00
1.0	Option specific value ball.	0.00	0.00	0.00
1.0	Or nice difference.	0.00	0.00	0.00
1.0	Organization law school.	0.00	0.00	0.00
1.0	Other by.	0.00	0.00	0.00
1.0	Other charge.	0.00	0.00	0.00
1.0	Other test.	0.00	0.00	0.00
1.0	Outside leg run.	0.00	0.00	0.00
1.0	Over a.	0.00	0.00	0.00
1.0	Over field must explain.	0.00	0.00	0.00
1.0	Own executive whom.	0.00	0.00	0.00
1.0	Own imagine throughout.	0.00	0.00	0.00
1.0	Own international.	0.00	0.00	0.00
1.0	Owner list public.	0.00	0.00	0.00
1.0	Owner road.	0.00	0.00	0.00
1.0	Painting fast dog eye.	0.00	0.00	0.00
1.0	Painting letter better him.	0.00	0.00	0.00
1.0	Painting stand free least.	0.00	0.00	0.00
1.0	Paper attention almost huge type.	0.00	0.00	0.00
1.0	Parent share sign a.	0.00	0.00	0.00
1.0	Part book character.	0.00	0.00	0.00
1.0	Particularly economy add give well.	0.00	0.00	0.00
1.0	Particularly space.	0.00	0.00	0.00
1.0	Partner maybe husband compare.	0.00	0.00	0.00
1.0	Pattern cold such.	0.00	0.00	0.00
1.0	Pay grow southern movie lawyer	0.00	0.00	0.00

1.0	Play grow southern movie lawyer.	0.00	0.00	0.00
1.0	Peace by small.	0.00	0.00	0.00
1.0	Performance measure trip information nice.	0.00	0.00	0.00
1.0	Personal agency doctor.	0.00	0.00	0.00
1.0	Picture generation kitchen affect full.	0.00	0.00	0.00
1.0	Piece lot everybody pull.	0.00	0.00	0.00
1.0	Piece never message fear.	0.00	0.00	0.00
1.0	Plant job that.	0.00	0.00	0.00
1.0	Play interview fire.	0.00	0.00	0.00
1.0	Player imagine road second.	0.00	0.00	0.00
1.0	Player research common call collection.	0.00	0.00	0.00
1.0	Pm public class create.	0.00	0.00	0.00
1.0	Point note.	0.00	0.00	0.00
1.0	Political end guess simply.	0.00	0.00	0.00
1.0	Population to state particularly.	0.00	0.00	0.00
1.0	Position agency surface.	0.00	0.00	0.00
1.0	Position officer trip space.	0.00	0.00	0.00
1.0	Positive plan.	0.00	0.00	0.00
1.0	Possible popular if something main.	0.00	0.00	0.00
1.0	Power care up.	0.00	0.00	0.00
0.0	President movement reach.	0.00	0.00	0.00
1.0	President road oil late though.	0.00	0.00	0.00
1.0	Pretty guess deep form campaign.	0.00	0.00	0.00
1.0	Price bad national.	0.00	0.00	0.00
1.0	Price kid party.	0.00	0.00	0.00
1.0	Process six.	0.00	0.00	0.00
1.0	Produce author.	0.00	0.00	0.00
1.0	Product back line scene.	0.00	0.00	0.00
1.0	Product price series kitchen great.	0.00	0.00	0.00
1.0	Product whether.	0.00	0.00	0.00
1.0	Production piece game.	0.00	0.00	0.00
1.0	Production type instead.	0.00	0.00	0.00
1.0	Professional bank land institution exist.	0.00	0.00	0.00
1.0	Professional sit star husband.	0.00	0.00	0.00
1.0	Professor somebody.	0.00	0.00	0.00
1.0	Project brother case parent.	0.00	0.00	0.00
1.0	Project hair go again	0.00	0.00	0.00

1.0	Project half go again.	0.00	0.00	0.00
1.0	Property could necessary.	0.00	0.00	0.00
1.0	Property interesting lawyer.	0.00	0.00	0.00
1.0	Protect scientist physical.	0.00	0.00	0.00
1.0	Public note rate cold.	0.00	0.00	0.00
1.0	Pull turn situation.	0.00	0.00	0.00
1.0	Pull very him able.	0.00	0.00	0.00
1.0	Push force animal wind.	0.00	0.00	0.00
0.0	Question themselves at.	0.00	0.00	0.00
1.0	Quickly garden manage clear situation.	0.00	0.00	0.00
1.0	Quite wear so dog many.	0.00	0.00	0.00
1.0	Range difficult side middle.	0.00	0.00	0.00
1.0	Range fight whatever show peace.	0.00	0.00	0.00
1.0	Rate another finally.	0.00	0.00	0.00
1.0	Rather hold live Democrat.	0.00	0.00	0.00
1.0	Rather media eat condition.	0.00	0.00	0.00
1.0	Reach finally crime ability.	0.00	0.00	0.00
1.0	Reach hotel reach back.	0.00	0.00	0.00
1.0	Reach sign.	0.00	0.00	0.00
1.0	Ready station across.	0.00	0.00	0.00
1.0	Reality just.	0.00	0.00	0.00
1.0	Receive challenge.	0.00	0.00	0.00
1.0	Receive his.	0.00	0.00	0.00
1.0	Recent color explain husband economy.	0.00	0.00	0.00
1.0	Recent single cost.	0.00	0.00	0.00
1.0	Recently close increase certainly.	0.00	0.00	0.00
1.0	Recognize attack.	0.00	0.00	0.00
1.0	Recognize ever nearly within.	0.00	0.00	0.00
1.0	Recognize page the.	0.00	0.00	0.00
1.0	Reduce consider on ball.	0.00	0.00	0.00
1.0	Reduce understand authority often.	0.00	0.00	0.00
1.0	Reflect major forget dinner.	0.00	0.00	0.00
1.0	Region attack.	0.00	0.00	0.00
1.0	Region fact now help.	0.00	0.00	0.00
1.0	Relationship reduce today class.	0.00	0.00	0.00
0.0	Religious management tax to fear.	0.00	0.00	0.00
1.0	Religious mother goal prepare	0.00	0.00	0.00

1.0	Religious mother year prepare.	0.00	0.00	0.00
1.0	Remain large.	0.00	0.00	0.00
1.0	Require choice collection dog.	0.00	0.00	0.00
1.0	Research politics share else such.	0.00	0.00	0.00
1.0	Respond church somebody work power.	0.00	0.00	0.00
1.0	Response computer.	0.00	0.00	0.00
1.0	Response it well.	0.00	0.00	0.00
1.0	Responsibility think help notice art.	0.00	0.00	0.00
1.0	Rest top trade garden information.	0.00	0.00	0.00
1.0	Rest way list.	0.00	0.00	0.00
1.0	Risk apply talk.	0.00	0.00	0.00
1.0	Road democratic employee throughout.	0.00	0.00	0.00
1.0	Rock ask language.	0.00	0.00	0.00
1.0	Rule section teacher none.	0.00	0.00	0.00
1.0	Rule think.	0.00	0.00	0.00
1.0	Run generation.	0.00	0.00	0.00
1.0	Run throughout culture.	0.00	0.00	0.00
1.0	Safe dinner once.	0.00	0.00	0.00
1.0	Safe into happy.	0.00	0.00	0.00
1.0	Safe person identify kid travel.	0.00	0.00	0.00
1.0	Say yeah hot.	0.00	0.00	0.00
1.0	Scene over.	0.00	0.00	0.00
1.0	Science out machine.	0.00	0.00	0.00
1.0	Sea charge sense worker.	0.00	0.00	0.00
1.0	Season service special black just.	0.00	0.00	0.00
1.0	Seat traditional value fast.	0.00	0.00	0.00
0.0	Seek series carry expect spring.	0.00	0.00	0.00
1.0	Seem find environmental.	0.00	0.00	0.00
1.0	Seem number than air body.	0.00	0.00	0.00
1.0	Seem service top.	0.00	0.00	0.00
1.0	Sell already opportunity.	0.00	0.00	0.00
1.0	Sell nothing list simple.	0.00	0.00	0.00
1.0	Sell sound.	0.00	0.00	0.00
1.0	Send deal business.	0.00	0.00	0.00
1.0	Send speak live.	0.00	0.00	0.00
1.0	Sense weight.	0.00	0.00	0.00
1.0	Series fight	0.00	0.00	0.00

1.0		0.00	0.00	0.00
1.0	Serve since example ability today.	0.00	0.00	0.00
1.0	Serve whether serve especially.	0.00	0.00	0.00
1.0	Set time according.	0.00	0.00	0.00
1.0	Seven class bad.	0.00	0.00	0.00
1.0	Seven job hot.	0.00	0.00	0.00
1.0	Seven physical card.	0.00	0.00	0.00
1.0	Shake large car.	0.00	0.00	0.00
1.0	She heart avoid.	0.00	0.00	0.00
1.0	Short suddenly sea.	0.00	0.00	0.00
1.0	Shoulder factor its almost condition.	0.00	0.00	0.00
1.0	Sign better individual learn.	0.00	0.00	0.00
1.0	Sign marriage keep almost.	0.00	0.00	0.00
0.0	Significant few.	0.00	0.00	0.00
1.0	Significant ok rate customer tax.	0.00	0.00	0.00
0.0	Similar move myself relate report.	0.00	0.00	0.00
1.0	Simply fine threat risk.	0.00	0.00	0.00
1.0	Simply throughout its wall.	0.00	0.00	0.00
1.0	Since interest.	0.00	0.00	0.00
1.0	Since weight this myself station.	0.00	0.00	0.00
1.0	Single that standard goal room.	0.00	0.00	0.00
1.0	Sister court whom believe which.	0.00	0.00	0.00
1.0	Sit gas.	0.00	0.00	0.00
1.0	Sit subject field close.	0.00	0.00	0.00
1.0	Site such kitchen including.	0.00	0.00	0.00
1.0	Situation action door word.	0.00	0.00	0.00
1.0	Six provide wall certainly.	0.00	0.00	0.00
1.0	Skill create upon.	0.00	0.00	0.00
1.0	Small should add.	0.00	0.00	0.00
1.0	So southern.	0.00	0.00	0.00
1.0	Social great dream.	0.00	0.00	0.00
1.0	Society hit contain bank gas.	0.00	0.00	0.00
1.0	Soldier drop maintain.	0.00	0.00	0.00
1.0	Some since might.	0.00	0.00	0.00
1.0	Somebody site.	0.00	0.00	0.00
1.0	Source civil seven ok one.	0.00	0.00	0.00
1.0	South able long finally side	0.00	0.00	0.00



1.0	South able long finally side.	0.00	0.00	0.00
1.0	South guess upon change day.	0.00	0.00	0.00
1.0	South while there.	0.00	0.00	0.00
1.0	Space staff us.	0.00	0.00	0.00
1.0	Space would later modern.	0.00	0.00	0.00
1.0	Speak support speak moment.	0.00	0.00	0.00
1.0	Speech actually election.	0.00	0.00	0.00
1.0	Speech cold stuff could.	0.00	0.00	0.00
1.0	Speech production air before boy.	0.00	0.00	0.00
1.0	Spend region edge interview.	0.00	0.00	0.00
1.0	Sport other stay agency.	0.00	0.00	0.00
1.0	Spring four fast.	0.00	0.00	0.00
1.0	Staff half better product.	0.00	0.00	0.00
1.0	Stand inside experience book.	0.00	0.00	0.00
1.0	Stand sense page.	0.00	0.00	0.00
1.0	Star wish study.	0.00	0.00	0.00
1.0	State gun worker he increase.	0.00	0.00	0.00
1.0	State weight heavy carry.	0.00	0.00	0.00
1.0	Station effect cell.	0.00	0.00	0.00
1.0	Station image for.	0.00	0.00	0.00
0.0	Station or still site.	0.00	0.00	0.00
1.0	Station we.	0.00	0.00	0.00
1.0	Stay national responsibility scientist.	0.00	0.00	0.00
1.0	Step run.	0.00	0.00	0.00
1.0	Stock always reveal.	0.00	0.00	0.00
1.0	Story born.	0.00	0.00	0.00
1.0	Story see movie school.	0.00	0.00	0.00
1.0	Strategy full happy help.	0.00	0.00	0.00
1.0	Street watch fact decide.	0.00	0.00	0.00
1.0	Strong mouth strong relationship ok.	0.00	0.00	0.00
1.0	Study want.	0.00	0.00	0.00
1.0	Successful large nation.	0.00	0.00	0.00
1.0	Successful set serious.	0.00	0.00	0.00
1.0	Such contain difference.	0.00	0.00	0.00
1.0	Suffer improve everything more.	0.00	0.00	0.00
1.0	Suffer likely prove.	0.00	0.00	0.00
1.0	Suggest call least	0 00	0 00	0 00

1.0	Suggest call least.	0.00	0.00	0.00
1.0	Summer property audience.	0.00	0.00	0.00
1.0	Summer whose face artist ask.	0.00	0.00	0.00
1.0	Support recognize TV imagine.	0.00	0.00	0.00
1.0	Surface have.	0.00	0.00	0.00
1.0	System court play soldier.	0.00	0.00	0.00
1.0	System good process.	0.00	0.00	0.00
1.0	System itself actually learn movement.	0.00	0.00	0.00
1.0	Table head plan.	0.00	0.00	0.00
1.0	Take media.	0.00	0.00	0.00
1.0	Talk something theory gas spring.	0.00	0.00	0.00
1.0	Task space organization reduce paper.	0.00	0.00	0.00
1.0	Teach coach.	0.00	0.00	0.00
1.0	Teach later for.	0.00	0.00	0.00
1.0	Teacher owner radio easy.	0.00	0.00	0.00
1.0	Team style send.	0.00	0.00	0.00
1.0	Team wide.	0.00	0.00	0.00
1.0	Ten simple reveal religious.	0.00	0.00	0.00
1.0	Ten thus night.	0.00	0.00	0.00
1.0	Test across learn whom position.	0.00	0.00	0.00
1.0	Than official.	0.00	0.00	0.00
1.0	The Democrat senior.	0.00	0.00	0.00
1.0	Theory two drop seven.	0.00	0.00	0.00
1.0	There job open risk spend.	0.00	0.00	0.00
1.0	There public occur attack.	0.00	0.00	0.00
1.0	These attention forget agent only.	0.00	0.00	0.00
1.0	These left performance and.	0.00	0.00	0.00
1.0	Think parent body.	0.00	0.00	0.00
1.0	Threat even year tend.	0.00	0.00	0.00
1.0	Throw wonder gun.	0.00	0.00	0.00
1.0	Thus top.	0.00	0.00	0.00
1.0	Time see number current.	0.00	0.00	0.00
1.0	To certainly return.	0.00	0.00	0.00
0.0	Today majority deal.	0.00	0.00	0.00
1.0	Top or final magazine.	0.00	0.00	0.00
0.0	Top tell collection sport a.	0.00	0.00	0.00
1.0	Tough available carry	0.00	0.00	0.00

1.0	Tough available early.	0.00	0.00	0.00
1.0	Tough order.	0.00	0.00	0.00
1.0	Town relate firm task.	0.00	0.00	0.00
0.0	Town that four.	0.00	0.00	0.00
1.0	Trade before strategy of.	0.00	0.00	0.00
1.0	Trade behavior science.	0.00	0.00	0.00
1.0	Traditional maybe reduce have.	0.00	0.00	0.00
1.0	Traditional start daughter foreign.	0.00	0.00	0.00
1.0	Traditional type clear.	0.00	0.00	0.00
1.0	Travel just floor pull deep.	0.00	0.00	0.00
1.0	Treatment democratic where true degree.	0.00	0.00	0.00
1.0	Treatment sister continue.	0.00	0.00	0.00
1.0	Trial special.	0.00	0.00	0.00
1.0	True fly president religious suddenly.	0.00	0.00	0.00
1.0	True town.	0.00	0.00	0.00
0.0	Try run.	0.00	0.00	0.00
1.0	Try seven place there.	0.00	0.00	0.00
1.0	Try style recently.	0.00	0.00	0.00
1.0	Turn eat environmental no.	0.00	0.00	0.00
1.0	Turn threat.	0.00	0.00	0.00
1.0	Two girl during nature.	0.00	0.00	0.00
1.0	Type according try.	0.00	0.00	0.00
1.0	Type pull.	0.00	0.00	0.00
1.0	Type role really thank.	0.00	0.00	0.00
1.0	Under week father race.	0.00	0.00	0.00
1.0	Until book choice.	0.00	0.00	0.00
1.0	Until guess between both.	0.00	0.00	0.00
1.0	Until recognize activity list never.	0.00	0.00	0.00
1.0	Until take appear station.	0.00	0.00	0.00
1.0	Us painting program industry.	0.00	0.00	0.00
1.0	Usually Mr certain.	0.00	0.00	0.00
1.0	Usually institution which.	0.00	0.00	0.00
1.0	Usually think though director.	0.00	0.00	0.00
1.0	Value couple you.	0.00	0.00	0.00
1.0	Value development guess art even.	0.00	0.00	0.00
1.0	Value exactly.	0.00	0.00	0.00
1.0	Value then sign war	0.00	0.00	0.00

1.0	Value then sign war.	0.00	0.00	0.00
1.0	Various organization husband us.	0.00	0.00	0.00
1.0	Very air perform tree.	0.00	0.00	0.00
1.0	Very official serious discuss.	0.00	0.00	0.00
1.0	View return.	0.00	0.00	0.00
1.0	Visit allow magazine.	0.00	0.00	0.00
1.0	Visit exactly wall continue.	0.00	0.00	0.00
1.0	Voice meeting whom town.	0.00	0.00	0.00
1.0	Vote area.	0.00	0.00	0.00
1.0	Vote those.	0.00	0.00	0.00
1.0	Want commercial two smile.	0.00	0.00	0.00
1.0	War born total green.	0.00	0.00	0.00
1.0	Watch cell create.	0.00	0.00	0.00
1.0	We yeah thought then.	0.00	0.00	0.00
1.0	Wear skin support idea.	0.00	0.00	0.00
1.0	West which maintain become.	0.00	0.00	0.00
1.0	Western recent television involve.	0.00	0.00	0.00
1.0	When air study.	0.00	0.00	0.00
1.0	When part whom.	0.00	0.00	0.00
1.0	When partner.	0.00	0.00	0.00
1.0	Where money threat general.	0.00	0.00	0.00
1.0	While doctor time.	0.00	0.00	0.00
1.0	While product sometimes.	0.00	0.00	0.00
1.0	Whole stock our I reduce.	0.00	0.00	0.00
1.0	Why through.	0.00	0.00	0.00
1.0	Wide safe partner.	0.00	0.00	0.00
1.0	Wide skill popular.	0.00	0.00	0.00
1.0	Will big few.	0.00	0.00	0.00
1.0	With card benefit onto understand.	0.00	0.00	0.00
1.0	Without improve determine film property.	0.00	0.00	0.00
1.0	Without office its condition.	0.00	0.00	0.00
1.0	Woman instead pay should.	0.00	0.00	0.00
1.0	Wonder mind seek.	0.00	0.00	0.00
1.0	Wonder try election store skin.	0.00	0.00	0.00
1.0	Word first.	0.00	0.00	0.00
1.0	Work popular establish ground.	0.00	0.00	0.00
1.0	Worker treat nice rise conference	0.00	0.00	0.00

1.0	WORKER great nice nice conference.	0.00	0.00	0.00
1.0	Worry wife.	0.00	0.00	0.00
1.0	Write magazine.	0.00	0.00	0.00
1.0	Write nothing sure determine should.	0.00	0.00	0.00
1.0	Yeah policy born decision trouble.	0.00	0.00	0.00
1.0	Yeah speech threat.	0.00	0.00	0.00
1.0	Yes toward family center toward.	0.00	0.00	0.00
1.0	You increase forward wife exist.	0.00	0.00	0.00
1.0	Young believe stand no.	0.00	0.00	0.00
1.0	Young perhaps radio building.	0.00	0.00	0.00
1.0	Your interview.	0.00	0.00	0.00
1.0				
800.0	accuracy			0.00
800.0	macro avg	0.00	0.00	0.00
800.0	weighted avg	0.00	0.00	0.00
800.0				

#### Logistic Regression Classification Report:

		precision	recall	f1-score	su
pport					
1.0	A statement.	0.00	0.00	0.00	
1.0	Ability guy foreign.	0.00	0.00	0.00	
1.0	Able foreign.	0.00	0.00	0.00	
1.0	Able ready scene.	0.00	0.00	0.00	
1.0	About lawyer can similar.	0.00	0.00	0.00	
1.0	Above success region.	0.00	0.00	0.00	
1.0	Above those professor their.	0.00	0.00	0.00	
1.0	Accept direction wonder federal one.	0.00	0.00	0.00	
1.0	According most put agent major.	0.00	0.00	0.00	
1.0	Action institution.	0.00	0.00	0.00	
1.0	Actually task.	0.00	0.00	0.00	
1.0	Administration challenge drop.	0.00	0.00	0.00	
1.0	Administration scene suffer.	0.00	0.00	0.00	
1.0	Adult color reach.	0.00	0.00	0.00	
1.0	Affect network support key.	0.00	0.00	0.00	
1.0	Affect occur item.	0.00	0.00	0.00	
0.0	Affect partner guess cost education.	0.00	0.00	0.00	
1.0	Again dark education.	0.00	0.00	0.00	
	Agency film say whom whole	0.00	0.00	0.00	

1.0	Agency firm say whom where.	0.00	0.00	0.00
1.0	Agency free senior positive less.	0.00	0.00	0.00
1.0	Ago else why himself.	0.00	0.00	0.00
1.0	Agree any else present tough.	0.00	0.00	0.00
1.0	Agree official former never while.	0.00	0.00	0.00
1.0	Agreement building several remember.	0.00	0.00	0.00
1.0	Agreement fill hot administration.	0.00	0.00	0.00
1.0	Agreement once three.	0.00	0.00	0.00
1.0	Ahead stage reason.	0.00	0.00	0.00
1.0	Air phone share material myself.	0.00	0.00	0.00
1.0	Air these kitchen protect it.	0.00	0.00	0.00
1.0	Along bill least.	0.00	0.00	0.00
1.0	Along structure fund.	0.00	0.00	0.00
1.0	Already data already morning suffer.	0.00	0.00	0.00
1.0	Already hundred type.	0.00	0.00	0.00
1.0	Always respond center including.	0.00	0.00	0.00
1.0	American mention participant present cultural.	0.00	0.00	0.00
1.0	Animal soon somebody.	0.00	0.00	0.00
1.0	Another wonder general professional.	0.00	0.00	0.00
1.0	Any share cause research affect.	0.00	0.00	0.00
1.0	Anything big stay season.	0.00	0.00	0.00
1.0	Appear beat television.	0.00	0.00	0.00
1.0	Argue decade rise defense.	0.00	0.00	0.00
1.0	Arrive call Mrs.	0.00	0.00	0.00
1.0	Arrive happy section.	0.00	0.00	0.00
1.0	Art father even might.	0.00	0.00	0.00
1.0	Article here.	0.00	0.00	0.00
1.0	As interest action believe.	0.00	0.00	0.00
1.0	Assume season see conference.	0.00	0.00	0.00
1.0	Attack new personal.	0.00	0.00	0.00
1.0	Attorney doctor adult center themselves.	0.00	0.00	0.00
1.0	Attorney study.	0.00	0.00	0.00
1.0	Audience usually avoid.	0.00	0.00	0.00
1.0	Authority us box.	0.00	0.00	0.00
1.0	Avoid more worker.	0.00	0.00	0.00
1.0	Away general fund pay.	0.00	0.00	0.00
1.0	Baby whatever	0 00	0 00	0 00

1.0		0.00	0.00	0.00
1.0	Back stuff everybody turn.	0.00	0.00	0.00
1.0	Bad mean.	0.00	0.00	0.00
1.0	Bag move.	0.00	0.00	0.00
1.0	Bank policy force piece.	0.00	0.00	0.00
1.0	Bank red small major lot.	0.00	0.00	0.00
1.0	Bar protect quality thousand.	0.00	0.00	0.00
1.0	Bar successful since.	0.00	0.00	0.00
1.0	Beat still quite feel practice.	0.00	0.00	0.00
1.0	Because three market.	0.00	0.00	0.00
1.0	Become tend rise much.	0.00	0.00	0.00
1.0	Bed run one seven.	0.00	0.00	0.00
1.0	Before else part.	0.00	0.00	0.00
1.0	Begin language.	0.00	0.00	0.00
1.0	Behavior product father in lot.	0.00	0.00	0.00
1.0	Behind go democratic change.	0.00	0.00	0.00
1.0	Believe believe name end shoulder.	0.00	0.00	0.00
1.0	Benefit responsibility.	0.00	0.00	0.00
1.0	Best though.	0.00	0.00	0.00
1.0	Better course Mrs agency.	0.00	0.00	0.00
1.0	Between buy suddenly may.	0.00	0.00	0.00
1.0	Between way little their.	0.00	0.00	0.00
1.0	Big perhaps exactly.	0.00	0.00	0.00
1.0	Big put.	0.00	0.00	0.00
1.0	Bill future four.	0.00	0.00	0.00
1.0	Bill pattern.	0.00	0.00	0.00
1.0	Billion follow.	0.00	0.00	0.00
1.0	Billion scientist.	0.00	0.00	0.00
1.0	Bit paper final wide.	0.00	0.00	0.00
1.0	Black major threat.	0.00	0.00	0.00
1.0	Blood everything organization.	0.00	0.00	0.00
1.0	Blue much head.	0.00	0.00	0.00
1.0	Blue wear according air industry.	0.00	0.00	0.00
1.0	Board follow money media.	0.00	0.00	0.00
1.0	Board live true model similar.	0.00	0.00	0.00
1.0	Board provide star.	0.00	0.00	0.00
1.0	Body almost	0.00	0.00	0.00

1.0	Body almost.	0.00	0.00	0.00
1.0	Body law speak service director.	0.00	0.00	0.00
1.0	Body value organization good.	0.00	0.00	0.00
1.0	Body visit.	0.00	0.00	0.00
1.0	Book personal price world.	0.00	0.00	0.00
1.0	Born environment family.	0.00	0.00	0.00
1.0	Box difficult become today.	0.00	0.00	0.00
1.0	Boy assume smile rise.	0.00	0.00	0.00
1.0	Bring fly man current senior.	0.00	0.00	0.00
1.0	Budget yes compare behind never.	0.00	0.00	0.00
1.0	Build loss mean certain remember.	0.00	0.00	0.00
1.0	But ability get age system.	0.00	0.00	0.00
1.0	By executive woman almost.	0.00	0.00	0.00
1.0	Call cause skin.	0.00	0.00	0.00
1.0	Camera laugh population.	0.00	0.00	0.00
1.0	Camera similar side allow.	0.00	0.00	0.00
1.0	Campaign smile poor control talk.	0.00	0.00	0.00
1.0	Campaign yard trip challenge.	0.00	0.00	0.00
1.0	Can each bed particular fast.	0.00	0.00	0.00
1.0	Capital picture action country.	0.00	0.00	0.00
1.0	Career Congress tough.	0.00	0.00	0.00
1.0	Case guess body however cost.	0.00	0.00	0.00
1.0	Cell wind could.	0.00	0.00	0.00
1.0	Center leave continue call the.	0.00	0.00	0.00
1.0	Century ask ground daughter.	0.00	0.00	0.00
1.0	Chair staff agreement similar.	0.00	0.00	0.00
1.0	Challenge particularly me.	0.00	0.00	0.00
1.0	Chance become response human read.	0.00	0.00	0.00
1.0	Chance beyond factor history.	0.00	0.00	0.00
1.0	Change ahead simply.	0.00	0.00	0.00
1.0	Change list rock rise.	0.00	0.00	0.00
1.0	Character career same way accept.	0.00	0.00	0.00
1.0	Charge take military.	0.00	0.00	0.00
1.0	Charge walk answer various.	0.00	0.00	0.00
1.0	Child begin section.	0.00	0.00	0.00
1.0	Child down newspaper important.	0.00	0.00	0.00
1.0	Child imagine law	0.00	0.00	0.00



1.0	CHILD imagine law.	0.00	0.00	0.00
1.0	Choice generation entire wrong fly.	0.00	0.00	0.00
1.0	Choice mission.	0.00	0.00	0.00
1.0	Choose trouble turn.	0.00	0.00	0.00
1.0	Citizen watch most wear well.	0.00	0.00	0.00
1.0	City maintain create worker center.	0.00	0.00	0.00
1.0	Civil low accept performance.	0.00	0.00	0.00
1.0	Civil prove painting concern bit.	0.00	0.00	0.00
1.0	Claim want be hit increase.	0.00	0.00	0.00
1.0	Class at various month decision.	0.00	0.00	0.00
1.0	Class see represent movie find.	0.00	0.00	0.00
1.0	Clear participant.	0.00	0.00	0.00
1.0	Clearly cost improve.	0.00	0.00	0.00
1.0	Coach lose too reduce prove.	0.00	0.00	0.00
1.0	Collection actually actually at economy.	0.00	0.00	0.00
1.0	College few language relationship occur.	0.00	0.00	0.00
1.0	Color machine style paper tree.	0.00	0.00	0.00
1.0	Common reach door per.	0.00	0.00	0.00
1.0	Community generation recently bar impact.	0.00	0.00	0.00
1.0	Compare five.	0.00	0.00	0.00
1.0	Computer matter manager now.	0.00	0.00	0.00
1.0	Computer police prepare the.	0.00	0.00	0.00
1.0	Condition use before check.	0.00	0.00	0.00
1.0	Condition visit purpose.	0.00	0.00	0.00
1.0	Consumer join nothing subject.	0.00	0.00	0.00
1.0	Consumer like beat.	0.00	0.00	0.00
1.0	Contain instead.	0.00	0.00	0.00
1.0	Contain station within coach.	0.00	0.00	0.00
1.0	Control foot may player.	0.00	0.00	0.00
1.0	Cost which hotel final.	0.00	0.00	0.00
1.0	Country as identify capital maintain.	0.00	0.00	0.00
1.0	Couple cost imagine term.	0.00	0.00	0.00
1.0	Course determine live prove.	0.00	0.00	0.00
1.0	Course partner beat.	0.00	0.00	0.00
0.0	Court though save pass.	0.00	0.00	0.00
1.0	Cover economy table guess.	0.00	0.00	0.00
1.0	Crime everybody strong capital	0.00	0.00	0.00

1.0	CRIME everybody strong capital.	0.00	0.00	0.00
1.0	Cultural like food concern.	0.00	0.00	0.00
1.0	Customer unit enter.	0.00	0.00	0.00
0.0	Cut whole writer.	0.00	0.00	0.00
1.0	Data exactly everything.	0.00	0.00	0.00
1.0	Daughter I military worry.	0.00	0.00	0.00
1.0	Daughter generation attack pass knowledge.	0.00	0.00	0.00
1.0	Deal treat.	0.00	0.00	0.00
1.0	Decade final easy.	0.00	0.00	0.00
1.0	Defense big.	0.00	0.00	0.00
1.0	Democrat bar discuss process ahead.	0.00	0.00	0.00
0.0	Democrat morning list exactly bill.	0.00	0.00	0.00
1.0	Design worry easy into.	0.00	0.00	0.00
1.0	Despite wish under.	0.00	0.00	0.00
1.0	Detail scientist.	0.00	0.00	0.00
1.0	Determine three tonight.	0.00	0.00	0.00
1.0	Development laugh task church magazine.	0.00	0.00	0.00
1.0	Difficult hotel.	0.00	0.00	0.00
1.0	Direction affect imagine state magazine.	0.00	0.00	0.00
1.0	Discover nice just item Mrs.	0.00	0.00	0.00
1.0	Discover operation.	0.00	0.00	0.00
1.0	Discover site push president.	0.00	0.00	0.00
1.0	Discuss because hand care.	0.00	0.00	0.00
1.0	Discuss participant international change seem.	0.00	0.00	0.00
1.0	Door management.	0.00	0.00	0.00
1.0	Door those often.	0.00	0.00	0.00
1.0	Down always vote.	0.00	0.00	0.00
1.0	Dream two happy certainly.	0.00	0.00	0.00
1.0	Drug campaign reach consider.	0.00	0.00	0.00
1.0	Drug collection wrong him food.	0.00	0.00	0.00
1.0	Each why different.	0.00	0.00	0.00
1.0	Early despite thousand order.	0.00	0.00	0.00
1.0	Easy quality customer pretty.	0.00	0.00	0.00
1.0	Edge almost hotel.	0.00	0.00	0.00
1.0	Edge seek peace ever.	0.00	0.00	0.00
1.0	Effort decide cover out.	0.00	0.00	0.00
1.0	Eight dark property	0.00	0.00	0.00

1.0	Eight dark property.	0.00	0.00	0.00
1.0	End impact agency fill.	0.00	0.00	0.00
1.0	Energy only last choice.	0.00	0.00	0.00
1.0	Enjoy bed movement upon security.	0.00	0.00	0.00
1.0	Enjoy often focus support.	0.00	0.00	0.00
1.0	Enter team treatment huge.	0.00	0.00	0.00
1.0	Entire or ago dark.	0.00	0.00	0.00
1.0	Entire picture.	0.00	0.00	0.00
1.0	Entire tree success.	0.00	0.00	0.00
1.0	Entire true manage call.	0.00	0.00	0.00
1.0	Environment maintain knowledge boy.	0.00	0.00	0.00
1.0	Especially main involve.	0.00	0.00	0.00
1.0	Establish administration.	0.00	0.00	0.00
1.0	Evening mouth film animal.	0.00	0.00	0.00
1.0	Everybody fall.	0.00	0.00	0.00
1.0	Exactly cup trouble.	0.00	0.00	0.00
1.0	Example point member wife.	0.00	0.00	0.00
1.0	Exist white herself board.	0.00	0.00	0.00
1.0	Experience develop certainly.	0.00	0.00	0.00
1.0	Experience play society wear.	0.00	0.00	0.00
1.0	Experience them create.	0.00	0.00	0.00
1.0	Family charge within student.	0.00	0.00	0.00
1.0	Family system among decide provide.	0.00	0.00	0.00
1.0	Fast toward decision.	0.00	0.00	0.00
1.0	Fear close ground tend.	0.00	0.00	0.00
1.0	Fear idea.	0.00	0.00	0.00
1.0	Fear live order she.	0.00	0.00	0.00
1.0	Federal recently.	0.00	0.00	0.00
1.0	Feel Democrat.	0.00	0.00	0.00
1.0	Feel fall water lose.	0.00	0.00	0.00
1.0	Feel including perhaps much.	0.00	0.00	0.00
1.0	Fight baby right.	0.00	0.00	0.00
1.0	Figure particularly down peace race.	0.00	0.00	0.00
1.0	Film current so thousand continue.	0.00	0.00	0.00
1.0	Final skin without.	0.00	0.00	0.00
1.0	Fine even phone example.	0.00	0.00	0.00
1.0	First camera level less form	0.00	0.00	0.00

1.0	First camera level loss form.	0.00	0.00	0.00
1.0	First simple property.	0.00	0.00	0.00
1.0	First yard.	0.00	0.00	0.00
1.0	Fish modern hair shoulder.	0.00	0.00	0.00
1.0	Fish world ready hotel response.	0.00	0.00	0.00
1.0	Five field play city.	0.00	0.00	0.00
1.0	Five item truth once else.	0.00	0.00	0.00
1.0	Floor in quite.	0.00	0.00	0.00
1.0	Floor not.	0.00	0.00	0.00
1.0	Floor unit support still.	0.00	0.00	0.00
1.0	Follow face important month.	0.00	0.00	0.00
1.0	For research accept.	0.00	0.00	0.00
1.0	Force color hit race.	0.00	0.00	0.00
0.0	Forget treatment whose become.	0.00	0.00	0.00
1.0	Form American car necessary situation.	0.00	0.00	0.00
1.0	Former campaign rich.	0.00	0.00	0.00
1.0	Former measure nothing.	0.00	0.00	0.00
0.0	Forward commercial my draw.	0.00	0.00	0.00
1.0	Forward music operation.	0.00	0.00	0.00
1.0	Forward wrong safe book.	0.00	0.00	0.00
1.0	Friend enjoy establish.	0.00	0.00	0.00
1.0	Friend their involve tough sell.	0.00	0.00	0.00
1.0	Full stand turn still magazine.	0.00	0.00	0.00
1.0	Full want.	0.00	0.00	0.00
1.0	Fund they.	0.00	0.00	0.00
1.0	Future measure explain.	0.00	0.00	0.00
0.0	Garden especially bad PM.	0.00	0.00	0.00
1.0	Gas attorney letter herself.	0.00	0.00	0.00
1.0	Gas material.	0.00	0.00	0.00
1.0	Gas similar care some.	0.00	0.00	0.00
1.0	Girl body strong phone.	0.00	0.00	0.00
1.0	Give dog anything.	0.00	0.00	0.00
1.0	Glass free participant.	0.00	0.00	0.00
1.0	Go lay traditional.	0.00	0.00	0.00
1.0	Goal without show.	0.00	0.00	0.00
1.0	Good arm behind.	0.00	0.00	0.00
1.0	Good history sing movie	0.00	0.00	0.00

1.0	Good history sing movie.	0.00	0.00	0.00
1.0	Government else.	0.00	0.00	0.00
1.0	Government identify ahead.	0.00	0.00	0.00
1.0	Great budget set.	0.00	0.00	0.00
1.0	Great money he.	0.00	0.00	0.00
1.0	Great win keep.	0.00	0.00	0.00
1.0	Ground movie why level director.	0.00	0.00	0.00
1.0	Ground new.	0.00	0.00	0.00
1.0	Grow different opportunity.	0.00	0.00	0.00
1.0	Growth every chair.	0.00	0.00	0.00
1.0	Guess chance power.	0.00	0.00	0.00
1.0	Guess product beat house.	0.00	0.00	0.00
1.0	Guess whatever daughter.	0.00	0.00	0.00
1.0	Gun inside kind only debate.	0.00	0.00	0.00
1.0	Half see recognize include.	0.00	0.00	0.00
1.0	Happen project.	0.00	0.00	0.00
1.0	Happen thousand different.	0.00	0.00	0.00
1.0	Have early government.	0.00	0.00	0.00
1.0	Head significant dog.	0.00	0.00	0.00
1.0	Hear attorney.	0.00	0.00	0.00
1.0	Hear guess.	0.00	0.00	0.00
1.0	Heart each manager mother.	0.00	0.00	0.00
1.0	Heart large idea government.	0.00	0.00	0.00
1.0	Her front car budget.	0.00	0.00	0.00
1.0	Himself bed sister head.	0.00	0.00	0.00
1.0	Himself fall interview assume.	0.00	0.00	0.00
1.0	Himself guy statement tend.	0.00	0.00	0.00
1.0	His concern.	0.00	0.00	0.00
1.0	History central low development provide.	0.00	0.00	0.00
1.0	Home radio decade.	0.00	0.00	0.00
1.0	Hope they.	0.00	0.00	0.00
1.0	Hope yes television game view.	0.00	0.00	0.00
1.0	How arrive.	0.00	0.00	0.00
1.0	However city.	0.00	0.00	0.00
1.0	However eight probably prove.	0.00	0.00	0.00
1.0	However rate.	0.00	0.00	0.00
1.0	However sneak wall	0.00	0.00	0.00

1.0	however speak wall.	0.00	0.00	0.00
1.0	Human employee attention.	0.00	0.00	0.00
1.0	Hundred including age require.	0.00	0.00	0.00
1.0	Hundred positive prevent.	0.00	0.00	0.00
1.0	Husband figure.	0.00	0.00	0.00
0.0	Husband laugh him perhaps.	0.00	0.00	0.00
1.0	Husband you identify yard.	0.00	0.00	0.00
1.0	I the among.	0.00	0.00	0.00
1.0	Idea message suffer.	0.00	0.00	0.00
1.0	Idea region grow hand between.	0.00	0.00	0.00
1.0	Identify someone collection song.	0.00	0.00	0.00
1.0	If beautiful.	0.00	0.00	0.00
1.0	If exist minute.	0.00	0.00	0.00
1.0	Image also media.	0.00	0.00	0.00
1.0	Image good stop.	0.00	0.00	0.00
1.0	Image why computer daughter.	0.00	0.00	0.00
1.0	Imagine affect market better two.	0.00	0.00	0.00
1.0	Impact police age responsibility similar.	0.00	0.00	0.00
1.0	Improve wish light.	0.00	0.00	0.00
1.0	In own public break.	0.00	0.00	0.00
1.0	Include billion trade.	0.00	0.00	0.00
1.0	Include case get pull.	0.00	0.00	0.00
1.0	Including must hard social organization.	0.00	0.00	0.00
1.0	Including product.	0.00	0.00	0.00
1.0	Including threat level.	0.00	0.00	0.00
0.0	Increase class exist.	0.00	0.00	0.00
1.0	Indeed bank style project also.	0.00	0.00	0.00
1.0	Indeed society police report prepare.	0.00	0.00	0.00
1.0	Indicate particularly factor record sister.	0.00	0.00	0.00
1.0	Individual its through performance.	0.00	0.00	0.00
1.0	Individual quickly mind inside have.	0.00	0.00	0.00
1.0	Industry always debate east.	0.00	0.00	0.00
1.0	Industry article walk.	0.00	0.00	0.00
1.0	Information next or.	0.00	0.00	0.00
1.0	Instead enough well mention responsibility.	0.00	0.00	0.00
0.0	Instead hope put.	0.00	0.00	0.00
1.0	Instead want itself at summer	0.00	0.00	0.00

1.0	Instead want report at summer.	0.00	0.00	0.00
1.0	Institution peace.	0.00	0.00	0.00
1.0	Interest ok during recognize short.	0.00	0.00	0.00
1.0	Interest sing.	0.00	0.00	0.00
1.0	Interesting eight career most sometimes.	0.00	0.00	0.00
0.0	International because environment available benefit.	0.00	0.00	0.00
1.0	International total simple.	0.00	0.00	0.00
1.0	Interview subject heavy senior report.	0.00	0.00	0.00
1.0	Into public.	0.00	0.00	0.00
1.0	Investment when.	0.00	0.00	0.00
1.0	It enjoy turn.	0.00	0.00	0.00
1.0	It home especially physical.	0.00	0.00	0.00
1.0	Its law.	0.00	0.00	0.00
1.0	Its newspaper.	0.00	0.00	0.00
1.0	Its recently true concern life.	0.00	0.00	0.00
1.0	Itself including far seem evening.	0.00	0.00	0.00
1.0	Job executive protect week.	0.00	0.00	0.00
1.0	Job serve guy.	0.00	0.00	0.00
1.0	Job state paper.	0.00	0.00	0.00
1.0	Just dinner husband office.	0.00	0.00	0.00
1.0	Keep gas increase commercial.	0.00	0.00	0.00
1.0	Key shoulder.	0.00	0.00	0.00
1.0	Kid spend wrong.	0.00	0.00	0.00
1.0	Kitchen pay consider.	0.00	0.00	0.00
1.0	Kitchen record position under.	0.00	0.00	0.00
1.0	Know too.	0.00	0.00	0.00
1.0	Knowledge campaign doctor character guy.	0.00	0.00	0.00
1.0	Knowledge character involve foot situation.	0.00	0.00	0.00
1.0	Land beautiful which their past.	0.00	0.00	0.00
1.0	Language office section.	0.00	0.00	0.00
1.0	Language teacher red.	0.00	0.00	0.00
1.0	Large develop new total.	0.00	0.00	0.00
1.0	Last most job.	0.00	0.00	0.00
1.0	Late church recently hard structure.	0.00	0.00	0.00
1.0	Late nation view week avoid.	0.00	0.00	0.00
1.0	Laugh however sell most.	0.00	0.00	0.00
1.0	Laugh property side	0.00	0.00	0.00

1.0	Laugh property side.	0.00	0.00	0.00
1.0	Law soldier member.	0.00	0.00	0.00
1.0	Lawyer agreement cost cup.	0.00	0.00	0.00
1.0	Lawyer she note present personal.	0.00	0.00	0.00
1.0	Lead purpose enough staff just.	0.00	0.00	0.00
0.0	Lead treatment country.	0.00	0.00	0.00
1.0	Leader among task wait by.	0.00	0.00	0.00
1.0	Leader hair.	0.00	0.00	0.00
1.0	Learn hit those.	0.00	0.00	0.00
1.0	Least certainly phone near.	0.00	0.00	0.00
1.0	Least other team.	0.00	0.00	0.00
1.0	Leg over simply day why.	0.00	0.00	0.00
1.0	Leg partner.	0.00	0.00	0.00
1.0	Leg put interest TV.	0.00	0.00	0.00
1.0	Let crime.	0.00	0.00	0.00
1.0	Let development.	0.00	0.00	0.00
1.0	Level front third plan trip.	0.00	0.00	0.00
1.0	Light modern hard.	0.00	0.00	0.00
1.0	Likely cup instead history.	0.00	0.00	0.00
1.0	Line me strong box four.	0.00	0.00	0.00
1.0	Listen green argue second.	0.00	0.00	0.00
1.0	Little something tell enter produce.	0.00	0.00	0.00
1.0	Little walk work brother four.	0.00	0.00	0.00
1.0	Live culture must expert red.	0.00	0.00	0.00
1.0	Long protect rate meeting describe.	0.00	0.00	0.00
1.0	Lot dream trade debate.	0.00	0.00	0.00
1.0	Lot responsibility here fund.	0.00	0.00	0.00
1.0	Low seek.	0.00	0.00	0.00
1.0	Magazine window southern speak expert.	0.00	0.00	0.00
1.0	Main letter.	0.00	0.00	0.00
1.0	Main manager director official various.	0.00	0.00	0.00
1.0	Major north force.	0.00	0.00	0.00
1.0	Man again fill popular knowledge.	0.00	0.00	0.00
1.0	Man finish office.	0.00	0.00	0.00
1.0	Man rule leader lot consumer.	0.00	0.00	0.00
0.0	Man within owner.	0.00	0.00	0.00
1.0	Manage lose for draw	0.00	0.00	0.00



1.0	Manage loss for draw.	0.00	0.00	0.00
1.0	Management four.	0.00	0.00	0.00
1.0	Management identify artist fire.	0.00	0.00	0.00
1.0	Manager left discuss.	0.00	0.00	0.00
1.0	Manager tax concern.	0.00	0.00	0.00
1.0	Marriage central later.	0.00	0.00	0.00
1.0	Marriage for manager why.	0.00	0.00	0.00
1.0	Matter special that.	0.00	0.00	0.00
1.0	Maybe and special.	0.00	0.00	0.00
1.0	Maybe later.	0.00	0.00	0.00
1.0	Measure matter protect amount medical.	0.00	0.00	0.00
1.0	Measure process issue trip.	0.00	0.00	0.00
1.0	Meet manage.	0.00	0.00	0.00
1.0	Meeting building movie interest Democrat.	0.00	0.00	0.00
0.0	Meeting test well responsibility.	0.00	0.00	0.00
1.0	Member once mission white.	0.00	0.00	0.00
1.0	Mention defense across care.	0.00	0.00	0.00
1.0	Mention majority fish budget.	0.00	0.00	0.00
1.0	Message sea production about center.	0.00	0.00	0.00
1.0	Method expert blood east.	0.00	0.00	0.00
1.0	Million business rise.	0.00	0.00	0.00
1.0	Mind arrive.	0.00	0.00	0.00
1.0	Minute shoulder type push structure.	0.00	0.00	0.00
1.0	Miss national service.	0.00	0.00	0.00
1.0	Modern course clear.	0.00	0.00	0.00
1.0	Modern glass law.	0.00	0.00	0.00
1.0	Moment best.	0.00	0.00	0.00
1.0	Money technology power oil.	0.00	0.00	0.00
1.0	Morning our cell.	0.00	0.00	0.00
1.0	Mother high manage radio.	0.00	0.00	0.00
1.0	Mouth range partner get.	0.00	0.00	0.00
0.0	Mr as current.	0.00	0.00	0.00
1.0	Mr support bar.	0.00	0.00	0.00
1.0	Much dog likely listen market.	0.00	0.00	0.00
1.0	Much understand our lead decade.	0.00	0.00	0.00
1.0	Music fear always smile.	0.00	0.00	0.00
1.0	My role pass situation	0.00	0.00	0.00

1.0	My role pass situation.	0.00	0.00	0.00
1.0	My song information environment.	0.00	0.00	0.00
1.0	Nature form two.	0.00	0.00	0.00
1.0	Nature heavy interesting.	0.00	0.00	0.00
1.0	Nature size officer.	0.00	0.00	0.00
1.0	Nearly account contain.	0.00	0.00	0.00
1.0	Nearly far might then.	0.00	0.00	0.00
1.0	Nearly his right prevent.	0.00	0.00	0.00
1.0	Necessary food experience ten care.	0.00	0.00	0.00
1.0	New bed.	0.00	0.00	0.00
1.0	New father design should between.	0.00	0.00	0.00
1.0	New get under.	0.00	0.00	0.00
1.0	New her again positive.	0.00	0.00	0.00
1.0	News fear season.	0.00	0.00	0.00
1.0	Nice fall.	0.00	0.00	0.00
1.0	Nice increase consumer.	0.00	0.00	0.00
1.0	Nice personal.	0.00	0.00	0.00
1.0	Nice thousand can use.	0.00	0.00	0.00
1.0	Night focus way.	0.00	0.00	0.00
1.0	No stage.	0.00	0.00	0.00
1.0	No west occur note could.	0.00	0.00	0.00
1.0	None sure.	0.00	0.00	0.00
1.0	Nor career score.	0.00	0.00	0.00
1.0	Nor without.	0.00	0.00	0.00
1.0	North a force.	0.00	0.00	0.00
1.0	North pick.	0.00	0.00	0.00
1.0	Not series south themselves.	0.00	0.00	0.00
1.0	Not south account sure.	0.00	0.00	0.00
1.0	Note region wind.	0.00	0.00	0.00
1.0	Note where guy.	0.00	0.00	0.00
1.0	Notice record fund.	0.00	0.00	0.00
1.0	Now change not magazine.	0.00	0.00	0.00
1.0	Now forward peace.	0.00	0.00	0.00
1.0	Now project high team.	0.00	0.00	0.00
1.0	Number language picture sound.	0.00	0.00	0.00
1.0	Off soon.	0.00	0.00	0.00
1.0	Offer sure really natural	0.00	0.00	0.00

1.0	Office cultural paper analysis.	0.00	0.00	0.00
1.0	Often other walk energy.	0.00	0.00	0.00
1.0	Oil article stay order.	0.00	0.00	0.00
1.0	Oil even size.	0.00	0.00	0.00
1.0	Oil group treat less prevent.	0.00	0.00	0.00
1.0	Ok machine.	0.00	0.00	0.00
1.0	One community sense main or.	0.00	0.00	0.00
1.0	One continue into security.	0.00	0.00	0.00
1.0	One cultural behavior less individual.	0.00	0.00	0.00
1.0	Only perhaps.	0.00	0.00	0.00
1.0	Onto approach field energy.	0.00	0.00	0.00
1.0	Open lose defense.	0.00	0.00	0.00
1.0	Open piece.	0.00	0.00	0.00
1.0	Operation success just position.	0.00	0.00	0.00
1.0	Opportunity significant group cell.	0.00	0.00	0.00
1.0	Opportunity sit short through ability.	0.00	0.00	0.00
1.0	Option past thing stand.	0.00	0.00	0.00
0.0	Option specific value ball.	0.00	0.00	0.00
1.0	Or nice difference.	0.00	0.00	0.00
1.0	Organization law school.	0.00	0.00	0.00
1.0	Other by.	0.00	0.00	0.00
1.0	Other charge.	0.00	0.00	0.00
1.0	Other test.	0.00	0.00	0.00
1.0	Outside leg run.	0.00	0.00	0.00
1.0	Over a.	0.00	0.00	0.00
1.0	Over field must explain.	0.00	0.00	0.00
1.0	Own executive whom.	0.00	0.00	0.00
1.0	Own imagine throughout.	0.00	0.00	0.00
1.0	Own international.	0.00	0.00	0.00
1.0	Owner list public.	0.00	0.00	0.00
1.0	Owner road.	0.00	0.00	0.00
1.0	Painting fast dog eye.	0.00	0.00	0.00
1.0	Painting letter better him.	0.00	0.00	0.00
1.0	Painting stand free least.	0.00	0.00	0.00
1.0	Paper attention almost huge type.	0.00	0.00	0.00
1.0	Parent share sign a	0.00	0.00	0.00

1.0	Parent share sign a.	0.00	0.00	0.00
1.0	Part book character.	0.00	0.00	0.00
1.0	Particularly economy add give well.	0.00	0.00	0.00
1.0	Particularly space.	0.00	0.00	0.00
1.0	Partner maybe husband compare.	0.00	0.00	0.00
1.0	Past condition eye adult Republican.	0.00	0.00	0.00
0.0	Pattern cold such.	0.00	0.00	0.00
1.0	Pay grow southern movie lawyer.	0.00	0.00	0.00
1.0	Peace by small.	0.00	0.00	0.00
1.0	Performance measure trip information nice.	0.00	0.00	0.00
1.0	Personal agency doctor.	0.00	0.00	0.00
1.0	Phone level Republican decision.	0.00	0.00	0.00
0.0	Picture generation kitchen affect full.	0.00	0.00	0.00
1.0	Piece lot everybody pull.	0.00	0.00	0.00
1.0	Piece never message fear.	0.00	0.00	0.00
1.0	Plant job that.	0.00	0.00	0.00
1.0	Play interview fire.	0.00	0.00	0.00
1.0	Player imagine road second.	0.00	0.00	0.00
1.0	Player research common call collection.	0.00	0.00	0.00
1.0	Pm public class create.	0.00	0.00	0.00
1.0	Point note.	0.00	0.00	0.00
1.0	Political end guess simply.	0.00	0.00	0.00
1.0	Population to state particularly.	0.00	0.00	0.00
1.0	Position agency surface.	0.00	0.00	0.00
1.0	Position officer trip space.	0.00	0.00	0.00
1.0	Positive plan.	0.00	0.00	0.00
1.0	Possible popular if something main.	0.00	0.00	0.00
1.0	President movement reach.	0.00	0.00	0.00
1.0	President road oil late though.	0.00	0.00	0.00
1.0	Pretty guess deep form campaign.	0.00	0.00	0.00
1.0	Price bad national.	0.00	0.00	0.00
1.0	Price kid party.	0.00	0.00	0.00
1.0	Process six.	0.00	0.00	0.00
1.0	Produce author.	0.00	0.00	0.00
1.0	Product back line scene.	0.00	0.00	0.00
1.0	Product price series kitchen great.	0.00	0.00	0.00
1.0	Product whether	0.00	0.00	0.00

1.0		0.00	0.00	0.00
1.0	Production piece game.	0.00	0.00	0.00
1.0	Production type instead.	0.00	0.00	0.00
1.0	Professional bank land institution exist.	0.00	0.00	0.00
1.0	Professional sit star husband.	0.00	0.00	0.00
1.0	Professor somebody.	0.00	0.00	0.00
1.0	Project brother case parent.	0.00	0.00	0.00
1.0	Project hair go again.	0.00	0.00	0.00
1.0	Property could necessary.	0.00	0.00	0.00
1.0	Property interesting lawyer.	0.00	0.00	0.00
1.0	Protect scientist physical.	0.00	0.00	0.00
1.0	Public note rate cold.	0.00	0.00	0.00
1.0	Pull turn situation.	0.00	0.00	0.00
1.0	Pull very him able.	0.00	0.00	0.00
1.0	Question themselves at.	0.00	0.00	0.00
1.0	Quickly garden manage clear situation.	0.00	0.00	0.00
1.0	Quite wear so dog many.	0.00	0.00	0.00
1.0	Range difficult side middle.	0.00	0.00	0.00
1.0	Range fight whatever show peace.	0.00	0.00	0.00
1.0	Rate another finally.	0.00	0.00	0.00
1.0	Rather hold live Democrat.	0.00	0.00	0.00
1.0	Rather media eat condition.	0.00	0.00	0.00
1.0	Reach finally crime ability.	0.00	0.00	0.00
1.0	Reach hotel reach back.	0.00	0.00	0.00
1.0	Reach sign.	0.00	0.00	0.00
1.0	Ready station across.	0.00	0.00	0.00
1.0	Reality just.	0.00	0.00	0.00
1.0	Receive challenge.	0.00	0.00	0.00
1.0	Receive his.	0.00	0.00	0.00
1.0	Recent color explain husband economy.	0.00	0.00	0.00
1.0	Recent single cost.	0.00	0.00	0.00
1.0	Recently close increase certainly.	0.00	0.00	0.00
1.0	Recognize attack.	0.00	0.00	0.00
1.0	Recognize ever nearly within.	0.00	0.00	0.00
1.0	Recognize page the.	0.00	0.00	0.00
1.0	Reduce consider on ball.	0.00	0.00	0.00
1.0	Reduce understand authority often	0.00	0.00	0.00

1.0	Reduce understand authority often.	0.00	0.00	0.00
1.0	Reflect major forget dinner.	0.00	0.00	0.00
1.0	Region attack.	0.00	0.00	0.00
1.0	Region fact now help.	0.00	0.00	0.00
1.0	Religious management tax to fear.	0.00	0.00	0.00
1.0	Religious mother goal prepare.	0.00	0.00	0.00
1.0	Remain large.	0.00	0.00	0.00
1.0	Require choice collection dog.	0.00	0.00	0.00
1.0	Research politics share else such.	0.00	0.00	0.00
1.0	Respond church somebody work power.	0.00	0.00	0.00
1.0	Response computer.	0.00	0.00	0.00
1.0	Response it well.	0.00	0.00	0.00
1.0	Responsibility think help notice art.	0.00	0.00	0.00
1.0	Rest top trade garden information.	0.00	0.00	0.00
1.0	Rest way list.	0.00	0.00	0.00
1.0	Risk apply talk.	0.00	0.00	0.00
1.0	Road democratic employee throughout.	0.00	0.00	0.00
1.0	Rock ask language.	0.00	0.00	0.00
1.0	Rule section teacher none.	0.00	0.00	0.00
1.0	Rule think.	0.00	0.00	0.00
1.0	Run generation.	0.00	0.00	0.00
1.0	Run throughout culture.	0.00	0.00	0.00
1.0	Safe dinner once.	0.00	0.00	0.00
1.0	Safe into happy.	0.00	0.00	0.00
1.0	Safe person identify kid travel.	0.00	0.00	0.00
1.0	Say yeah hot.	0.00	0.00	0.00
1.0	Scene over.	0.00	0.00	0.00
1.0	Science out machine.	0.00	0.00	0.00
1.0	Sea charge sense worker.	0.00	0.00	0.00
1.0	Season service special black just.	0.00	0.00	0.00
1.0	Seek series carry expect spring.	0.00	0.00	0.00
1.0	Seem find environmental.	0.00	0.00	0.00
1.0	Seem number than air body.	0.00	0.00	0.00
1.0	Seem service top.	0.00	0.00	0.00
1.0	Sell already opportunity.	0.00	0.00	0.00
1.0	Sell nothing list simple.	0.00	0.00	0.00
1.0	Sell sound	0.00	0.00	0.00

1.0		Self sound.	0.00	0.00	0.00
1.0		Send deal business.	0.00	0.00	0.00
1.0		Send speak live.	0.00	0.00	0.00
1.0		Sense weight.	0.00	0.00	0.00
1.0		Series fight.	0.00	0.00	0.00
1.0		Serve since example ability today.	0.00	0.00	0.00
1.0		Serve whether serve especially.	0.00	0.00	0.00
1.0		Set time according.	0.00	0.00	0.00
1.0		Seven class bad.	0.00	0.00	0.00
1.0		Seven job hot.	0.00	0.00	0.00
1.0		Seven physical card.	0.00	0.00	0.00
1.0		Shake large car.	0.00	0.00	0.00
1.0		She back person.	0.00	0.00	0.00
0.0		She heart avoid.	0.00	0.00	0.00
1.0		Short suddenly sea.	0.00	0.00	0.00
1.0		Shoulder factor its almost condition.	0.00	0.00	0.00
1.0		Sign better individual learn.	0.00	0.00	0.00
1.0		Significant few.	0.00	0.00	0.00
1.0		Similar move myself relate report.	0.00	0.00	0.00
1.0		Simply fine threat risk.	0.00	0.00	0.00
1.0		Simply throughout its wall.	0.00	0.00	0.00
1.0		Since interest.	0.00	0.00	0.00
1.0		Since weight this myself station.	0.00	0.00	0.00
1.0		Single that standard goal room.	0.00	0.00	0.00
1.0		Sister court whom believe which.	0.00	0.00	0.00
1.0		Sit gas.	0.00	0.00	0.00
1.0		Sit subject field close.	0.00	0.00	0.00
1.0		Site such kitchen including.	0.00	0.00	0.00
1.0		Situation action door word.	0.00	0.00	0.00
1.0		Six provide wall certainly.	0.00	0.00	0.00
1.0		Skill create upon.	0.00	0.00	0.00
1.0		Small should add.	0.00	0.00	0.00
1.0		So southern.	0.00	0.00	0.00
1.0		Social great dream.	0.00	0.00	0.00
1.0		Society hit contain bank gas.	0.00	0.00	0.00
1.0		Soldier drop maintain.	0.00	0.00	0.00
1.0		Some since might	0.00	0.00	0.00

1.0	Some since might.	0.00	0.00	0.00
1.0	Somebody site.	0.00	0.00	0.00
1.0	Source civil seven ok one.	0.00	0.00	0.00
1.0	South able long finally side.	0.00	0.00	0.00
1.0	South guess upon change day.	0.00	0.00	0.00
1.0	South while there.	0.00	0.00	0.00
1.0	Space staff us.	0.00	0.00	0.00
1.0	Space would later modern.	0.00	0.00	0.00
1.0	Speak support speak moment.	0.00	0.00	0.00
1.0	Speech actually election.	0.00	0.00	0.00
1.0	Speech cold stuff could.	0.00	0.00	0.00
1.0	Speech production air before boy.	0.00	0.00	0.00
1.0	Spend region edge interview.	0.00	0.00	0.00
1.0	Sport other stay agency.	0.00	0.00	0.00
1.0	Spring four fast.	0.00	0.00	0.00
1.0	Staff half better product.	0.00	0.00	0.00
1.0	Stand inside experience book.	0.00	0.00	0.00
1.0	Stand sense page.	0.00	0.00	0.00
1.0	Star wish study.	0.00	0.00	0.00
1.0	State gun worker he increase.	0.00	0.00	0.00
1.0	State weight heavy carry.	0.00	0.00	0.00
1.0	Station effect cell.	0.00	0.00	0.00
1.0	Station or still site.	0.00	0.00	0.00
1.0	Station we.	0.00	0.00	0.00
1.0	Stay national responsibility scientist.	0.00	0.00	0.00
1.0	Step run.	0.00	0.00	0.00
1.0	Stock always reveal.	0.00	0.00	0.00
1.0	Story born.	0.00	0.00	0.00
1.0	Story see movie school.	0.00	0.00	0.00
1.0	Strategy full happy help.	0.00	0.00	0.00
1.0	Street watch fact decide.	0.00	0.00	0.00
1.0	Strong mouth strong relationship ok.	0.00	0.00	0.00
1.0	Study want.	0.00	0.00	0.00
1.0	Successful go size ground.	0.00	0.00	0.00
0.0	Successful large nation.	0.00	0.00	0.00
1.0	Successful set serious.	0.00	0.00	0.00
1.0	Such contain difference	0.00	0.00	0.00



1.0		0.00	0.00	0.00
1.0	Suffer improve everything more.	0.00	0.00	0.00
1.0	Suffer likely prove.	0.00	0.00	0.00
1.0	Suggest call least.	0.00	0.00	0.00
1.0	Summer property audience.	0.00	0.00	0.00
1.0	Summer whose face artist ask.	0.00	0.00	0.00
1.0	Support recognize TV imagine.	0.00	0.00	0.00
1.0	Surface have.	0.00	0.00	0.00
1.0	System court play soldier.	0.00	0.00	0.00
1.0	System good process.	0.00	0.00	0.00
1.0	System itself actually learn movement.	0.00	0.00	0.00
1.0	Table head plan.	0.00	0.00	0.00
1.0	Take media.	0.00	0.00	0.00
1.0	Talk something theory gas spring.	0.00	0.00	0.00
1.0	Task space organization reduce paper.	0.00	0.00	0.00
1.0	Teach coach.	0.00	0.00	0.00
1.0	Teach later for.	0.00	0.00	0.00
1.0	Teacher owner radio easy.	0.00	0.00	0.00
1.0	Team style send.	0.00	0.00	0.00
1.0	Team wide.	0.00	0.00	0.00
1.0	Ten simple reveal religious.	0.00	0.00	0.00
1.0	Ten thus night.	0.00	0.00	0.00
1.0	Test across learn whom position.	0.00	0.00	0.00
1.0	Than official.	0.00	0.00	0.00
1.0	The Democrat senior.	0.00	0.00	0.00
1.0	Theory two drop seven.	0.00	0.00	0.00
1.0	There job open risk spend.	0.00	0.00	0.00
1.0	There public occur attack.	0.00	0.00	0.00
1.0	These attention forget agent only.	0.00	0.00	0.00
1.0	These left performance and.	0.00	0.00	0.00
1.0	Think parent body.	0.00	0.00	0.00
1.0	Threat even year tend.	0.00	0.00	0.00
1.0	Throw wonder gun.	0.00	0.00	0.00
1.0	Thus top.	0.00	0.00	0.00
1.0	Time see number current.	0.00	0.00	0.00
1.0	Today majority deal.	0.00	0.00	0.00
1.0	Top tell collection sport a	0.00	0.00	0.00

1.0	Top cell collection sport a.	0.00	0.00	0.00
1.0	Tough available carry.	0.00	0.00	0.00
1.0	Tough order.	0.00	0.00	0.00
1.0	Town that four.	0.00	0.00	0.00
1.0	Trade before strategy of.	0.00	0.00	0.00
1.0	Trade behavior science.	0.00	0.00	0.00
1.0	Traditional maybe reduce have.	0.00	0.00	0.00
1.0	Traditional start daughter foreign.	0.00	0.00	0.00
1.0	Traditional type clear.	0.00	0.00	0.00
1.0	Travel just floor pull deep.	0.00	0.00	0.00
1.0	Treatment democratic where true degree.	0.00	0.00	0.00
1.0	Treatment sister continue.	0.00	0.00	0.00
1.0	Trial hundred those stop edge.	0.00	0.00	0.00
0.0	Trial special.	0.00	0.00	0.00
1.0	True fly president religious suddenly.	0.00	0.00	0.00
1.0	Try run.	0.00	0.00	0.00
1.0	Try seven place there.	0.00	0.00	0.00
1.0	Try style recently.	0.00	0.00	0.00
1.0	Turn eat environmental no.	0.00	0.00	0.00
1.0	Turn threat.	0.00	0.00	0.00
1.0	Two girl during nature.	0.00	0.00	0.00
1.0	Type according try.	0.00	0.00	0.00
1.0	Type pull.	0.00	0.00	0.00
1.0	Type role really thank.	0.00	0.00	0.00
1.0	Under week father race.	0.00	0.00	0.00
1.0	Until book choice.	0.00	0.00	0.00
1.0	Until guess between both.	0.00	0.00	0.00
1.0	Until recognize activity list never.	0.00	0.00	0.00
1.0	Until take appear station.	0.00	0.00	0.00
1.0	Us painting program industry.	0.00	0.00	0.00
1.0	Usually Mr certain.	0.00	0.00	0.00
1.0	Usually institution which.	0.00	0.00	0.00
1.0	Usually think though director.	0.00	0.00	0.00
1.0	Value couple you.	0.00	0.00	0.00
1.0	Value development guess art even.	0.00	0.00	0.00
1.0	Value exactly.	0.00	0.00	0.00
1.0	Value then sign war	0.00	0.00	0.00

1.0		Value then sign war.	0.00	0.00	0.00
1.0	Various organization husband us.		0.00	0.00	0.00
1.0		Very air perform tree.	0.00	0.00	0.00
1.0		Very official serious discuss.	0.00	0.00	0.00
1.0		View return.	0.00	0.00	0.00
1.0		Visit allow magazine.	0.00	0.00	0.00
1.0		Visit exactly wall continue.	0.00	0.00	0.00
1.0		Voice meeting whom town.	0.00	0.00	0.00
1.0		Vote area.	0.00	0.00	0.00
1.0		Vote those.	0.00	0.00	0.00
1.0		Want commercial two smile.	0.00	0.00	0.00
1.0		War born total green.	0.00	0.00	0.00
1.0		Watch cell create.	0.00	0.00	0.00
1.0		We yeah thought then.	0.00	0.00	0.00
1.0		Wear skin support idea.	0.00	0.00	0.00
1.0		Well on.	0.00	0.00	0.00
0.0		West which maintain become.	0.00	0.00	0.00
1.0		Western recent television involve.	0.00	0.00	0.00
1.0		When air study.	0.00	0.00	0.00
1.0		When part whom.	0.00	0.00	0.00
1.0		When partner.	0.00	0.00	0.00
1.0		Where money threat general.	0.00	0.00	0.00
1.0		While doctor time.	0.00	0.00	0.00
1.0		While product sometimes.	0.00	0.00	0.00
1.0		Whole stock our I reduce.	0.00	0.00	0.00
1.0		Why through.	0.00	0.00	0.00
1.0		Wide safe partner.	0.00	0.00	0.00
1.0		Wide skill popular.	0.00	0.00	0.00
1.0		Will big few.	0.00	0.00	0.00
1.0		With card benefit onto understand.	0.00	0.00	0.00
1.0		Without improve determine film property.	0.00	0.00	0.00
1.0		Without office its condition.	0.00	0.00	0.00
1.0		Woman instead pay should.	0.00	0.00	0.00
1.0		Wonder mind seek.	0.00	0.00	0.00
1.0		Wonder try election store skin.	0.00	0.00	0.00
1.0		Word first.	0.00	0.00	0.00
1.0		Work popular establish ground	0.00	0.00	0.00

1.0	Work popular establish ground.	0.00	0.00	0.00
1.0	Worker treat nice rise conference.	0.00	0.00	0.00
1.0	Worry wife.	0.00	0.00	0.00
1.0	Write magazine.	0.00	0.00	0.00
1.0	Write nothing sure determine should.	0.00	0.00	0.00
1.0	Yeah policy born decision trouble.	0.00	0.00	0.00
1.0	Yeah speech threat.	0.00	0.00	0.00
1.0	Yes outside.	0.00	0.00	0.00
0.0	Yes toward family center toward.	0.00	0.00	0.00
1.0	You increase forward wife exist.	0.00	0.00	0.00
1.0	Young believe stand no.	0.00	0.00	0.00
1.0	Young perhaps radio building.	0.00	0.00	0.00
1.0	Your interview.	0.00	0.00	0.00
1.0	Yourself standard talk.	0.00	0.00	0.00
0.0				
	accuracy			0.00
800.0				
	macro avg	0.00	0.00	0.00
800.0				
	weighted avg	0.00	0.00	0.00
800.0				

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
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  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

SVM Classification Report:

		precision	recall	f1-score	su
pport					
1.0	A statement.	0.00	0.00	0.00	
1.0	Ability guy foreign.	0.00	0.00	0.00	
1.0	Able foreign.	0.00	0.00	0.00	

1.0	Able ready scene.	0.00	0.00	0.00
1.0	About lawyer can similar.	0.00	0.00	0.00
1.0	Above success region.	0.00	0.00	0.00
1.0	Above those professor their.	0.00	0.00	0.00
1.0	Accept direction wonder federal one.	0.00	0.00	0.00
1.0	According most put agent major.	0.00	0.00	0.00
1.0	Action institution.	0.00	0.00	0.00
1.0	Actually task.	0.00	0.00	0.00
1.0	Administration challenge drop.	0.00	0.00	0.00
1.0	Administration scene suffer.	0.00	0.00	0.00
1.0	Adult color reach.	0.00	0.00	0.00
1.0	Affect network support key.	0.00	0.00	0.00
1.0	Affect occur item.	0.00	0.00	0.00
1.0	Again dark education.	0.00	0.00	0.00
1.0	Agency film say whom whole.	0.00	0.00	0.00
1.0	Agency free senior positive less.	0.00	0.00	0.00
1.0	Ago else why himself.	0.00	0.00	0.00
1.0	Agree any else present tough.	0.00	0.00	0.00
1.0	Agree official former never while.	0.00	0.00	0.00
1.0	Agreement building several remember.	0.00	0.00	0.00
1.0	Agreement fill hot administration.	0.00	0.00	0.00
1.0	Agreement once three.	0.00	0.00	0.00
1.0	Ahead stage reason.	0.00	0.00	0.00
1.0	Air phone share material myself.	0.00	0.00	0.00
1.0	Air these kitchen protect it.	0.00	0.00	0.00
1.0	Along bill least.	0.00	0.00	0.00
1.0	Along structure fund.	0.00	0.00	0.00
1.0	Already data already morning suffer.	0.00	0.00	0.00
1.0	Already hundred type.	0.00	0.00	0.00
1.0	Always respond center including.	0.00	0.00	0.00
1.0	American mention participant present cultural.	0.00	0.00	0.00
1.0	Animal soon somebody.	0.00	0.00	0.00
1.0	Another wonder general professional.	0.00	0.00	0.00
1.0	Any share cause research affect.	0.00	0.00	0.00
1.0	Anything big stay season.	0.00	0.00	0.00
1.0	Appear beat television.	0.00	0.00	0.00

1.0	Argue decade rise defense.	0.00	0.00	0.00
1.0	Arrive call Mrs.	0.00	0.00	0.00
1.0	Arrive happy section.	0.00	0.00	0.00
1.0	Art father even might.	0.00	0.00	0.00
1.0	Article here.	0.00	0.00	0.00
1.0	As interest action believe.	0.00	0.00	0.00
1.0	Assume season see conference.	0.00	0.00	0.00
1.0	Attack new personal.	0.00	0.00	0.00
1.0	Attorney doctor adult center themselves.	0.00	0.00	0.00
1.0	Attorney study.	0.00	0.00	0.00
1.0	Audience usually avoid.	0.00	0.00	0.00
1.0	Authority us box.	0.00	0.00	0.00
1.0	Avoid more worker.	0.00	0.00	0.00
1.0	Away general fund pay.	0.00	0.00	0.00
1.0	Baby whatever.	0.00	0.00	0.00
1.0	Back stuff everybody turn.	0.00	0.00	0.00
1.0	Bad mean.	0.00	0.00	0.00
1.0	Bag move.	0.00	0.00	0.00
1.0	Bank policy force piece.	0.00	0.00	0.00
1.0	Bank red small major lot.	0.00	0.00	0.00
1.0	Bar protect quality thousand.	0.00	0.00	0.00
1.0	Bar successful since.	0.00	0.00	0.00
1.0	Beat still quite feel practice.	0.00	0.00	0.00
1.0	Because three market.	0.00	0.00	0.00
1.0	Become tend rise much.	0.00	0.00	0.00
1.0	Bed run one seven.	0.00	0.00	0.00
1.0	Before else part.	0.00	0.00	0.00
1.0	Begin language.	0.00	0.00	0.00
1.0	Behavior product father in lot.	0.00	0.00	0.00
1.0	Behind go democratic change.	0.00	0.00	0.00
1.0	Believe believe name end shoulder.	0.00	0.00	0.00
1.0	Benefit responsibility.	0.00	0.00	0.00
1.0	Best though.	0.00	0.00	0.00
1.0	Better course Mrs agency.	0.00	0.00	0.00
1.0	Between buy suddenly may.	0.00	0.00	0.00
1.0	Between way little their.	0.00	0.00	0.00

1.0	Big perhaps exactly.	0.00	0.00	0.00
1.0	Big put.	0.00	0.00	0.00
1.0	Bill future four.	0.00	0.00	0.00
1.0	Bill pattern.	0.00	0.00	0.00
1.0	Billion follow.	0.00	0.00	0.00
1.0	Billion scientist.	0.00	0.00	0.00
1.0	Bit paper final wide.	0.00	0.00	0.00
1.0	Black major threat.	0.00	0.00	0.00
1.0	Blood everything organization.	0.00	0.00	0.00
1.0	Blue much head.	0.00	0.00	0.00
1.0	Blue wear according air industry.	0.00	0.00	0.00
1.0	Board follow money media.	0.00	0.00	0.00
1.0	Board live true model similar.	0.00	0.00	0.00
1.0	Board provide star.	0.00	0.00	0.00
1.0	Body almost.	0.00	0.00	0.00
1.0	Body law speak service director.	0.00	0.00	0.00
1.0	Body value organization good.	0.00	0.00	0.00
1.0	Body visit.	0.00	0.00	0.00
1.0	Book personal price world.	0.00	0.00	0.00
1.0	Born environment family.	0.00	0.00	0.00
1.0	Box difficult become today.	0.00	0.00	0.00
1.0	Boy assume smile rise.	0.00	0.00	0.00
1.0	Bring fly man current senior.	0.00	0.00	0.00
1.0	Budget yes compare behind never.	0.00	0.00	0.00
1.0	Build loss mean certain remember.	0.00	0.00	0.00
1.0	But ability get age system.	0.00	0.00	0.00
1.0	By executive woman almost.	0.00	0.00	0.00
1.0	Call cause skin.	0.00	0.00	0.00
1.0	Camera laugh population.	0.00	0.00	0.00
1.0	Camera similar side allow.	0.00	0.00	0.00
1.0	Campaign smile poor control talk.	0.00	0.00	0.00
1.0	Campaign yard trip challenge.	0.00	0.00	0.00
1.0	Can each bed particular fast.	0.00	0.00	0.00
1.0	Capital picture action country.	0.00	0.00	0.00
1.0	Career Congress tough.	0.00	0.00	0.00
1.0	Case guess body however cost.	0.00	0.00	0.00

1.0	Cell wind could.	0.00	0.00	0.00
1.0	Center leave continue call the.	0.00	0.00	0.00
1.0	Century ask ground daughter.	0.00	0.00	0.00
1.0	Chair staff agreement similar.	0.00	0.00	0.00
1.0	Challenge particularly me.	0.00	0.00	0.00
1.0	Chance become response human read.	0.00	0.00	0.00
1.0	Chance beyond factor history.	0.00	0.00	0.00
1.0	Change ahead simply.	0.00	0.00	0.00
1.0	Change list rock rise.	0.00	0.00	0.00
1.0	Character career same way accept.	0.00	0.00	0.00
1.0	Charge take military.	0.00	0.00	0.00
1.0	Charge walk answer various.	0.00	0.00	0.00
1.0	Child begin section.	0.00	0.00	0.00
1.0	Child down newspaper important.	0.00	0.00	0.00
1.0	Child imagine law.	0.00	0.00	0.00
1.0	Choice generation entire wrong fly.	0.00	0.00	0.00
1.0	Choice mission.	0.00	0.00	0.00
1.0	Choose trouble turn.	0.00	0.00	0.00
1.0	Citizen watch most wear well.	0.00	0.00	0.00
1.0	City maintain create worker center.	0.00	0.00	0.00
1.0	Civil low accept performance.	0.00	0.00	0.00
1.0	Civil prove painting concern bit.	0.00	0.00	0.00
1.0	Claim want be hit increase.	0.00	0.00	0.00
1.0	Class at various month decision.	0.00	0.00	0.00
1.0	Class see represent movie find.	0.00	0.00	0.00
1.0	Clear participant.	0.00	0.00	0.00
1.0	Clearly cost improve.	0.00	0.00	0.00
1.0	Coach lose too reduce prove.	0.00	0.00	0.00
1.0	Collection actually actually at economy.	0.00	0.00	0.00
1.0	College few language relationship occur.	0.00	0.00	0.00
1.0	Color machine style paper tree.	0.00	0.00	0.00
1.0	Common reach door per.	0.00	0.00	0.00
1.0	Community generation recently bar impact.	0.00	0.00	0.00
1.0	Compare five.	0.00	0.00	0.00
1.0	Computer matter manager now.	0.00	0.00	0.00
1.0	Computer police prepare the.	0.00	0.00	0.00



1.0	Condition use before check.	0.00	0.00	0.00
1.0	Condition visit purpose.	0.00	0.00	0.00
1.0	Consumer join nothing subject.	0.00	0.00	0.00
1.0	Consumer like beat.	0.00	0.00	0.00
1.0	Contain instead.	0.00	0.00	0.00
1.0	Contain station within coach.	0.00	0.00	0.00
1.0	Control foot may player.	0.00	0.00	0.00
1.0	Cost which hotel final.	0.00	0.00	0.00
1.0	Country as identify capital maintain.	0.00	0.00	0.00
1.0	Couple cost imagine term.	0.00	0.00	0.00
1.0	Course determine live prove.	0.00	0.00	0.00
1.0	Court though save pass.	0.00	0.00	0.00
1.0	Cover economy table guess.	0.00	0.00	0.00
1.0	Crime everybody strong capital.	0.00	0.00	0.00
1.0	Cultural like food concern.	0.00	0.00	0.00
1.0	Cut whole writer.	0.00	0.00	0.00
1.0	Data exactly everything.	0.00	0.00	0.00
1.0	Daughter I military worry.	0.00	0.00	0.00
1.0	Daughter generation attack pass knowledge.	0.00	0.00	0.00
1.0	Deal treat.	0.00	0.00	0.00
1.0	Decade final easy.	0.00	0.00	0.00
1.0	Defense big.	0.00	0.00	0.00
1.0	Democrat morning list exactly bill.	0.00	0.00	0.00
1.0	Design worry easy into.	0.00	0.00	0.00
1.0	Despite wish under.	0.00	0.00	0.00
1.0	Detail scientist.	0.00	0.00	0.00
1.0	Determine three tonight.	0.00	0.00	0.00
1.0	Development laugh task church magazine.	0.00	0.00	0.00
1.0	Difficult hotel.	0.00	0.00	0.00
1.0	Direction affect imagine state magazine.	0.00	0.00	0.00
1.0	Discover nice just item Mrs.	0.00	0.00	0.00
1.0	Discover operation.	0.00	0.00	0.00
1.0	Discover site push president.	0.00	0.00	0.00
1.0	Discuss because hand care.	0.00	0.00	0.00
1.0	Discuss participant international change seem.	0.00	0.00	0.00
1.0	Door management.	0.00	0.00	0.00

1.0	Door those often.	0.00	0.00	0.00
1.0	Down always vote.	0.00	0.00	0.00
1.0	Dream two happy certainly.	0.00	0.00	0.00
1.0	Drug campaign reach consider.	0.00	0.00	0.00
1.0	Drug collection wrong him food.	0.00	0.00	0.00
1.0	Each why different.	0.00	0.00	0.00
1.0	Early despite thousand order.	0.00	0.00	0.00
1.0	Easy quality customer pretty.	0.00	0.00	0.00
1.0	Edge almost hotel.	0.00	0.00	0.00
1.0	Edge seek peace ever.	0.00	0.00	0.00
1.0	Effort decide cover out.	0.00	0.00	0.00
1.0	Eight dark property.	0.00	0.00	0.00
1.0	End impact agency fill.	0.00	0.00	0.00
1.0	Energy only last choice.	0.00	0.00	0.00
1.0	Enjoy bed movement upon security.	0.00	0.00	0.00
1.0	Enjoy often focus support.	0.00	0.00	0.00
1.0	Enter team treatment huge.	0.00	0.00	0.00
1.0	Entire or ago dark.	0.00	0.00	0.00
1.0	Entire picture.	0.00	0.00	0.00
1.0	Entire tree success.	0.00	0.00	0.00
1.0	Entire true manage call.	0.00	0.00	0.00
1.0	Environment maintain knowledge boy.	0.00	0.00	0.00
1.0	Especially main involve.	0.00	0.00	0.00
1.0	Establish administration.	0.00	0.00	0.00
1.0	Evening mouth film animal.	0.00	0.00	0.00
1.0	Everybody fall.	0.00	0.00	0.00
1.0	Exactly cup trouble.	0.00	0.00	0.00
1.0	Example point member wife.	0.00	0.00	0.00
1.0	Exist white herself board.	0.00	0.00	0.00
1.0	Experience develop certainly.	0.00	0.00	0.00
1.0	Experience play society wear.	0.00	0.00	0.00
1.0	Experience them create.	0.00	0.00	0.00
1.0	Family charge within student.	0.00	0.00	0.00
1.0	Family system among decide provide.	0.00	0.00	0.00
1.0	Fast toward decision.	0.00	0.00	0.00
1.0	Fear close ground tend.	0.00	0.00	0.00

1.0	Fear idea.	0.00	0.00	0.00
1.0	Fear live order she.	0.00	0.00	0.00
1.0	Federal recently.	0.00	0.00	0.00
1.0	Feel Democrat.	0.00	0.00	0.00
1.0	Feel fall water lose.	0.00	0.00	0.00
1.0	Feel including perhaps much.	0.00	0.00	0.00
1.0	Fight baby right.	0.00	0.00	0.00
1.0	Figure particularly down peace race.	0.00	0.00	0.00
1.0	Film current so thousand continue.	0.00	0.00	0.00
1.0	Final skin without.	0.00	0.00	0.00
1.0	Fine even phone example.	0.00	0.00	0.00
1.0	First camera level less form.	0.00	0.00	0.00
1.0	First simple property.	0.00	0.00	0.00
1.0	First yard.	0.00	0.00	0.00
1.0	Fish modern hair shoulder.	0.00	0.00	0.00
1.0	Fish world ready hotel response.	0.00	0.00	0.00
1.0	Five field play city.	0.00	0.00	0.00
1.0	Five item truth once else.	0.00	0.00	0.00
1.0	Floor in quite.	0.00	0.00	0.00
1.0	Floor not.	0.00	0.00	0.00
1.0	Floor unit support still.	0.00	0.00	0.00
1.0	Follow face important month.	0.00	0.00	0.00
1.0	For research accept.	0.00	0.00	0.00
1.0	Forget treatment whose become.	0.00	0.00	0.00
1.0	Form American car necessary situation.	0.00	0.00	0.00
1.0	Former campaign rich.	0.00	0.00	0.00
1.0	Forward commercial my draw.	0.00	0.00	0.00
1.0	Forward music operation.	0.00	0.00	0.00
1.0	Forward wrong safe book.	0.00	0.00	0.00
1.0	Friend enjoy establish.	0.00	0.00	0.00
1.0	Friend their involve tough sell.	0.00	0.00	0.00
1.0	Full stand turn still magazine.	0.00	0.00	0.00
1.0	Full want.	0.00	0.00	0.00
1.0	Fund they.	0.00	0.00	0.00
1.0	Garden especially bad PM.	0.00	0.00	0.00
1.0	Gas attorney letter herself.	0.00	0.00	0.00
1.0				

1.0	Gas material.	0.00	0.00	0.00
1.0	Gas similar care some.	0.00	0.00	0.00
1.0	Girl body strong phone.	0.00	0.00	0.00
1.0	Give dog anything.	0.00	0.00	0.00
1.0	Glass free participant.	0.00	0.00	0.00
1.0	Go lay traditional.	0.00	0.00	0.00
1.0	Goal without show.	0.00	0.00	0.00
1.0	Good arm behind.	0.00	0.00	0.00
1.0	Good history sing movie.	0.00	0.00	0.00
1.0	Government else.	0.00	0.00	0.00
1.0	Government identify ahead.	0.00	0.00	0.00
1.0	Great budget set.	0.00	0.00	0.00
1.0	Great money he.	0.00	0.00	0.00
1.0	Great win keep.	0.00	0.00	0.00
1.0	Ground movie why level director.	0.00	0.00	0.00
1.0	Ground new.	0.00	0.00	0.00
1.0	Grow different opportunity.	0.00	0.00	0.00
1.0	Growth every chair.	0.00	0.00	0.00
1.0	Guess chance power.	0.00	0.00	0.00
1.0	Guess product beat house.	0.00	0.00	0.00
1.0	Guess whatever daughter.	0.00	0.00	0.00
1.0	Gun inside kind only debate.	0.00	0.00	0.00
1.0	Half see recognize include.	0.00	0.00	0.00
1.0	Happen project.	0.00	0.00	0.00
1.0	Happen thousand different.	0.00	0.00	0.00
1.0	Have early government.	0.00	0.00	0.00
1.0	Head significant dog.	0.00	0.00	0.00
1.0	Hear attorney.	0.00	0.00	0.00
1.0	Hear guess.	0.00	0.00	0.00
1.0	Heart each manager mother.	0.00	0.00	0.00
1.0	Heart large idea government.	0.00	0.00	0.00
1.0	Her front car budget.	0.00	0.00	0.00
1.0	Himself bed sister head.	0.00	0.00	0.00
1.0	Himself fall interview assume.	0.00	0.00	0.00
1.0	Himself guy statement tend.	0.00	0.00	0.00
1.0	His concern.	0.00	0.00	0.00

1.0	History central low development provide.	0.00	0.00	0.00
1.0	Home radio decade.	0.00	0.00	0.00
1.0	Hope they.	0.00	0.00	0.00
1.0	Hope yes television game view.	0.00	0.00	0.00
1.0	How arrive.	0.00	0.00	0.00
1.0	However city.	0.00	0.00	0.00
1.0	However eight probably prove.	0.00	0.00	0.00
1.0	However rate.	0.00	0.00	0.00
1.0	However speak wall.	0.00	0.00	0.00
1.0	Human employee attention.	0.00	0.00	0.00
1.0	Hundred including age require.	0.00	0.00	0.00
1.0	Hundred positive prevent.	0.00	0.00	0.00
1.0	Husband laugh him perhaps.	0.00	0.00	0.00
1.0	Husband you identify yard.	0.00	0.00	0.00
1.0	I the among.	0.00	0.00	0.00
1.0	Idea message suffer.	0.00	0.00	0.00
1.0	Idea region grow hand between.	0.00	0.00	0.00
1.0	Identify someone collection song.	0.00	0.00	0.00
1.0	If beautiful.	0.00	0.00	0.00
1.0	If exist minute.	0.00	0.00	0.00
1.0	Image also media.	0.00	0.00	0.00
1.0	Image good stop.	0.00	0.00	0.00
1.0	Image why computer daughter.	0.00	0.00	0.00
1.0	Imagine affect market better two.	0.00	0.00	0.00
1.0	Impact police age responsibility similar.	0.00	0.00	0.00
1.0	Improve wish light.	0.00	0.00	0.00
1.0	In own public break.	0.00	0.00	0.00
1.0	Include billion trade.	0.00	0.00	0.00
1.0	Include case get pull.	0.00	0.00	0.00
1.0	Including must hard social organization.	0.00	0.00	0.00
1.0	Including product.	0.00	0.00	0.00
1.0	Increase class exist.	0.00	0.00	0.00
1.0	Indeed bank style project also.	0.00	0.00	0.00
1.0	Indeed society police report prepare.	0.00	0.00	0.00
1.0	Indicate particularly factor record sister.	0.00	0.00	0.00
1.0	Individual its through performance.	0.00	0.00	0.00

1.0	Individual quickly mind inside have.	0.00	0.00	0.00
1.0	Industry always debate east.	0.00	0.00	0.00
1.0	Industry article walk.	0.00	0.00	0.00
1.0	Information next or.	0.00	0.00	0.00
1.0	Instead hope put.	0.00	0.00	0.00
1.0	Instead want itself at summer.	0.00	0.00	0.00
1.0	Institution peace.	0.00	0.00	0.00
1.0	Interest ok during recognize short.	0.00	0.00	0.00
1.0	Interest sing.	0.00	0.00	0.00
1.0	International because environment available benefit.	0.00	0.00	0.00
1.0	International total simple.	0.00	0.00	0.00
1.0	Interview subject heavy senior report.	0.00	0.00	0.00
1.0	Into public.	0.00	0.00	0.00
1.0	Investment when.	0.00	0.00	0.00
1.0	It enjoy turn.	0.00	0.00	0.00
1.0	It home especially physical.	0.00	0.00	0.00
1.0	Its law.	0.00	0.00	0.00
1.0	Its newspaper.	0.00	0.00	0.00
1.0	Its recently true concern life.	0.00	0.00	0.00
1.0	Itself including far seem evening.	0.00	0.00	0.00
1.0	Job executive protect week.	0.00	0.00	0.00
1.0	Job serve guy.	0.00	0.00	0.00
1.0	Job state paper.	0.00	0.00	0.00
1.0	Just dinner husband office.	0.00	0.00	0.00
1.0	Keep gas increase commercial.	0.00	0.00	0.00
1.0	Key shoulder.	0.00	0.00	0.00
1.0	Kid spend wrong.	0.00	0.00	0.00
1.0	Kitchen pay consider.	0.00	0.00	0.00
1.0	Kitchen record position under.	0.00	0.00	0.00
1.0	Know too.	0.00	0.00	0.00
1.0	Knowledge campaign doctor character guy.	0.00	0.00	0.00
1.0	Knowledge character involve foot situation.	0.00	0.00	0.00
1.0	Land beautiful which their past.	0.00	0.00	0.00
1.0	Language office section.	0.00	0.00	0.00
1.0	Language teacher red.	0.00	0.00	0.00
1.0	Large develop new total.	0.00	0.00	0.00

1.0	Last most job.	0.00	0.00	0.00
1.0	Late church recently hard structure.	0.00	0.00	0.00
1.0	Late nation view week avoid.	0.00	0.00	0.00
1.0	Laugh however sell most.	0.00	0.00	0.00
1.0	Laugh property side.	0.00	0.00	0.00
1.0	Law soldier member.	0.00	0.00	0.00
1.0	Lawyer agreement cost cup.	0.00	0.00	0.00
1.0	Lawyer she note present personal.	0.00	0.00	0.00
1.0	Lead treatment country.	0.00	0.00	0.00
1.0	Leader among task wait by.	0.00	0.00	0.00
1.0	Leader hair.	0.00	0.00	0.00
1.0	Learn hit those.	0.00	0.00	0.00
1.0	Least certainly phone near.	0.00	0.00	0.00
1.0	Least other team.	0.00	0.00	0.00
1.0	Leg over simply day why.	0.00	0.00	0.00
1.0	Leg partner.	0.00	0.00	0.00
1.0	Leg put interest TV.	0.00	0.00	0.00
1.0	Let crime.	0.00	0.00	0.00
1.0	Let development.	0.00	0.00	0.00
1.0	Level front third plan trip.	0.00	0.00	0.00
1.0	Light modern hard.	0.00	0.00	0.00
1.0	Likely cup instead history.	0.00	0.00	0.00
1.0	Line me strong box four.	0.00	0.00	0.00
1.0	Listen green argue second.	0.00	0.00	0.00
1.0	Little something tell enter produce.	0.00	0.00	0.00
1.0	Little walk work brother four.	0.00	0.00	0.00
1.0	Live culture must expert red.	0.00	0.00	0.00
1.0	Long protect rate meeting describe.	0.00	0.00	0.00
1.0	Lot dream trade debate.	0.00	0.00	0.00
1.0	Lot responsibility here fund.	0.00	0.00	0.00
1.0	Low seek.	0.00	0.00	0.00
1.0	Magazine window southern speak expert.	0.00	0.00	0.00
1.0	Main letter.	0.00	0.00	0.00
1.0	Main manager director official various.	0.00	0.00	0.00
1.0	Major north force.	0.00	0.00	0.00
1.0	Man again fill popular knowledge.	0.00	0.00	0.00

1.0	Man finish office.	0.00	0.00	0.00
1.0	Man within owner.	0.00	0.00	0.00
1.0	Manage lose for draw.	0.00	0.00	0.00
1.0	Management four.	0.00	0.00	0.00
1.0	Management identify artist fire.	0.00	0.00	0.00
1.0	Manager left discuss.	0.00	0.00	0.00
1.0	Manager tax concern.	0.00	0.00	0.00
1.0	Marriage central later.	0.00	0.00	0.00
1.0	Marriage for manager why.	0.00	0.00	0.00
1.0	Matter special that.	0.00	0.00	0.00
1.0	Maybe and special.	0.00	0.00	0.00
1.0	Maybe later.	0.00	0.00	0.00
1.0	Measure matter protect amount medical.	0.00	0.00	0.00
1.0	Measure process issue trip.	0.00	0.00	0.00
1.0	Meet manage.	0.00	0.00	0.00
1.0	Meeting test well responsibility.	0.00	0.00	0.00
1.0	Member once mission white.	0.00	0.00	0.00
1.0	Mention defense across care.	0.00	0.00	0.00
1.0	Mention majority fish budget.	0.00	0.00	0.00
1.0	Message sea production about center.	0.00	0.00	0.00
1.0	Method expert blood east.	0.00	0.00	0.00
1.0	Million business rise.	0.00	0.00	0.00
1.0	Mind arrive.	0.00	0.00	0.00
1.0	Minute shoulder type push structure.	0.00	0.00	0.00
1.0	Miss national service.	0.00	0.00	0.00
1.0	Modern course clear.	0.00	0.00	0.00
1.0	Modern glass law.	0.00	0.00	0.00
1.0	Moment best.	0.00	0.00	0.00
1.0	Money technology power oil.	0.00	0.00	0.00
1.0	Morning our cell.	0.00	0.00	0.00
1.0	Mother high manage radio.	0.00	0.00	0.00
1.0	Mr as current.	0.00	0.00	0.00
1.0	Mr support bar.	0.00	0.00	0.00
1.0	Much dog likely listen market.	0.00	0.00	0.00
1.0	Much understand our lead decade.	0.00	0.00	0.00
1.0	Music fear always smile.	0.00	0.00	0.00



1.0	My role pass situation.	0.00	0.00	0.00
1.0	My song information environment.	0.00	0.00	0.00
1.0	Nature form two.	0.00	0.00	0.00
1.0	Nature heavy interesting.	0.00	0.00	0.00
1.0	Nature size officer.	0.00	0.00	0.00
1.0	Nearly account contain.	0.00	0.00	0.00
1.0	Nearly far might then.	0.00	0.00	0.00
1.0	Nearly his right prevent.	0.00	0.00	0.00
1.0	Necessary food experience ten care.	0.00	0.00	0.00
1.0	New bed.	0.00	0.00	0.00
1.0	New father design should between.	0.00	0.00	0.00
1.0	New get under.	0.00	0.00	0.00
1.0	New her again positive.	0.00	0.00	0.00
1.0	News fear season.	0.00	0.00	0.00
1.0	Nice fall.	0.00	0.00	0.00
1.0	Nice increase consumer.	0.00	0.00	0.00
1.0	Nice personal.	0.00	0.00	0.00
1.0	Nice thousand can use.	0.00	0.00	0.00
1.0	Night focus way.	0.00	0.00	0.00
1.0	No stage.	0.00	0.00	0.00
1.0	No west occur note could.	0.00	0.00	0.00
1.0	None sure.	0.00	0.00	0.00
1.0	Nor career score.	0.00	0.00	0.00
1.0	Nor without.	0.00	0.00	0.00
1.0	North a force.	0.00	0.00	0.00
1.0	North pick.	0.00	0.00	0.00
1.0	Not series south themselves.	0.00	0.00	0.00
1.0	Not south account sure.	0.00	0.00	0.00
1.0	Note region wind.	0.00	0.00	0.00
1.0	Note where guy.	0.00	0.00	0.00
1.0	Notice record fund.	0.00	0.00	0.00
1.0	Now change not magazine.	0.00	0.00	0.00
1.0	Now forward peace.	0.00	0.00	0.00
1.0	Now project high team.	0.00	0.00	0.00
1.0	Number language picture sound.	0.00	0.00	0.00
1.0	Off soon.	0.00	0.00	0.00

1.0	Offer sure really natural.	0.00	0.00	0.00
1.0	Office cultural paper analysis.	0.00	0.00	0.00
1.0	Often other walk energy.	0.00	0.00	0.00
1.0	Oil article stay order.	0.00	0.00	0.00
1.0	Oil even size.	0.00	0.00	0.00
1.0	Oil group treat less prevent.	0.00	0.00	0.00
1.0	Ok machine.	0.00	0.00	0.00
1.0	One community sense main or.	0.00	0.00	0.00
1.0	One continue into security.	0.00	0.00	0.00
1.0	One cultural behavior less individual.	0.00	0.00	0.00
1.0	Only perhaps.	0.00	0.00	0.00
1.0	Onto approach field energy.	0.00	0.00	0.00
1.0	Open lose defense.	0.00	0.00	0.00
1.0	Open piece.	0.00	0.00	0.00
1.0	Operation success just position.	0.00	0.00	0.00
1.0	Opportunity significant group cell.	0.00	0.00	0.00
1.0	Opportunity sit short through ability.	0.00	0.00	0.00
1.0	Option specific value ball.	0.00	0.00	0.00
1.0	Or nice difference.	0.00	0.00	0.00
1.0	Organization law school.	0.00	0.00	0.00
1.0	Other by.	0.00	0.00	0.00
1.0	Other charge.	0.00	0.00	0.00
1.0	Other test.	0.00	0.00	0.00
1.0	Outside leg run.	0.00	0.00	0.00
1.0	Over a.	0.00	0.00	0.00
1.0	Over field must explain.	0.00	0.00	0.00
1.0	Own executive whom.	0.00	0.00	0.00
1.0	Own imagine throughout.	0.00	0.00	0.00
1.0	Own international.	0.00	0.00	0.00
1.0	Owner list public.	0.00	0.00	0.00
1.0	Owner road.	0.00	0.00	0.00
1.0	Painting fast dog eye.	0.00	0.00	0.00
1.0	Painting letter better him.	0.00	0.00	0.00
1.0	Painting stand free least.	0.00	0.00	0.00
1.0	Paper attention almost huge type.	0.00	0.00	0.00
1.0	Parent share sign a.	0.00	0.00	0.00

1.0	Part book character.	0.00	0.00	0.00
1.0	Particularly economy add give well.	0.00	0.00	0.00
1.0	Particularly space.	0.00	0.00	0.00
1.0	Partner maybe husband compare.	0.00	0.00	0.00
1.0	Pattern cold such.	0.00	0.00	0.00
1.0	Pay grow southern movie lawyer.	0.00	0.00	0.00
1.0	Peace by small.	0.00	0.00	0.00
1.0	Performance measure trip information nice.	0.00	0.00	0.00
1.0	Personal agency doctor.	0.00	0.00	0.00
1.0	Picture generation kitchen affect full.	0.00	0.00	0.00
1.0	Piece lot everybody pull.	0.00	0.00	0.00
1.0	Piece never message fear.	0.00	0.00	0.00
1.0	Plant job that.	0.00	0.00	0.00
1.0	Play interview fire.	0.00	0.00	0.00
1.0	Player imagine road second.	0.00	0.00	0.00
1.0	Player research common call collection.	0.00	0.00	0.00
1.0	Pm public class create.	0.00	0.00	0.00
1.0	Point note.	0.00	0.00	0.00
1.0	Political end guess simply.	0.00	0.00	0.00
1.0	Population to state particularly.	0.00	0.00	0.00
1.0	Position agency surface.	0.00	0.00	0.00
1.0	Position officer trip space.	0.00	0.00	0.00
1.0	Positive plan.	0.00	0.00	0.00
1.0	Possible popular if something main.	0.00	0.00	0.00
1.0	President movement reach.	0.00	0.00	0.00
1.0	President road oil late though.	0.00	0.00	0.00
1.0	Pretty guess deep form campaign.	0.00	0.00	0.00
1.0	Price bad national.	0.00	0.00	0.00
1.0	Price kid party.	0.00	0.00	0.00
1.0	Process six.	0.00	0.00	0.00
1.0	Produce author.	0.00	0.00	0.00
1.0	Product back line scene.	0.00	0.00	0.00
1.0	Product price series kitchen great.	0.00	0.00	0.00
1.0	Product whether.	0.00	0.00	0.00
1.0	Production piece game.	0.00	0.00	0.00
1.0	Production type instead.	0.00	0.00	0.00

1.0	Professional bank land institution exist.	0.00	0.00	0.00
1.0	Professional sit star husband.	0.00	0.00	0.00
1.0	Professor somebody.	0.00	0.00	0.00
1.0	Project brother case parent.	0.00	0.00	0.00
1.0	Project hair go again.	0.00	0.00	0.00
1.0	Property could necessary.	0.00	0.00	0.00
1.0	Property interesting lawyer.	0.00	0.00	0.00
1.0	Protect scientist physical.	0.00	0.00	0.00
1.0	Public note rate cold.	0.00	0.00	0.00
1.0	Pull turn situation.	0.00	0.00	0.00
1.0	Pull very him able.	0.00	0.00	0.00
1.0	Question themselves at.	0.00	0.00	0.00
1.0	Quickly garden manage clear situation.	0.00	0.00	0.00
1.0	Quite wear so dog many.	0.00	0.00	0.00
1.0	Range difficult side middle.	0.00	0.00	0.00
1.0	Range fight whatever show peace.	0.00	0.00	0.00
1.0	Rate another finally.	0.00	0.00	0.00
1.0	Rather hold live Democrat.	0.00	0.00	0.00
1.0	Rather media eat condition.	0.00	0.00	0.00
1.0	Reach finally crime ability.	0.00	0.00	0.00
1.0	Reach hotel reach back.	0.00	0.00	0.00
1.0	Reach sign.	0.00	0.00	0.00
1.0	Ready station across.	0.00	0.00	0.00
1.0	Reality just.	0.00	0.00	0.00
1.0	Receive challenge.	0.00	0.00	0.00
1.0	Receive his.	0.00	0.00	0.00
1.0	Recent color explain husband economy.	0.00	0.00	0.00
1.0	Recent single cost.	0.00	0.00	0.00
1.0	Recently close increase certainly.	0.00	0.00	0.00
1.0	Recognize attack.	0.00	0.00	0.00
1.0	Recognize ever nearly within.	0.00	0.00	0.00
1.0	Recognize page the.	0.00	0.00	0.00
1.0	Reduce consider on ball.	0.00	0.00	0.00
1.0	Reduce understand authority often.	0.00	0.00	0.00
1.0	Reflect major forget dinner.	0.00	0.00	0.00
1.0	Region attack.	0.00	0.00	0.00

1.0	Region fact now help.	0.00	0.00	0.00
1.0	Religious management tax to fear.	0.00	0.00	0.00
1.0	Religious mother goal prepare.	0.00	0.00	0.00
1.0	Remain large.	0.00	0.00	0.00
1.0	Require choice collection dog.	0.00	0.00	0.00
1.0	Research politics share else such.	0.00	0.00	0.00
1.0	Respond church somebody work power.	0.00	0.00	0.00
1.0	Response computer.	0.00	0.00	0.00
1.0	Response it well.	0.00	0.00	0.00
1.0	Responsibility think help notice art.	0.00	0.00	0.00
1.0	Rest top trade garden information.	0.00	0.00	0.00
1.0	Rest way list.	0.00	0.00	0.00
1.0	Risk apply talk.	0.00	0.00	0.00
1.0	Road democratic employee throughout.	0.00	0.00	0.00
1.0	Rock ask language.	0.00	0.00	0.00
1.0	Rule section teacher none.	0.00	0.00	0.00
1.0	Rule think.	0.00	0.00	0.00
1.0	Run generation.	0.00	0.00	0.00
1.0	Run throughout culture.	0.00	0.00	0.00
1.0	Safe dinner once.	0.00	0.00	0.00
1.0	Safe into happy.	0.00	0.00	0.00
1.0	Safe person identify kid travel.	0.00	0.00	0.00
1.0	Say yeah hot.	0.00	0.00	0.00
1.0	Scene over.	0.00	0.00	0.00
1.0	Science out machine.	0.00	0.00	0.00
1.0	Sea charge sense worker.	0.00	0.00	0.00
1.0	Season service special black just.	0.00	0.00	0.00
1.0	Seek series carry expect spring.	0.00	0.00	0.00
1.0	Seem find environmental.	0.00	0.00	0.00
1.0	Seem number than air body.	0.00	0.00	0.00
1.0	Seem service top.	0.00	0.00	0.00
1.0	Sell already opportunity.	0.00	0.00	0.00
1.0	Sell nothing list simple.	0.00	0.00	0.00
1.0	Sell sound.	0.00	0.00	0.00
1.0	Send deal business.	0.00	0.00	0.00
1.0	Send speak live.	0.00	0.00	0.00

1.0	Sense weight.	0.00	0.00	0.00
1.0	Series fight.	0.00	0.00	0.00
1.0	Serve since example ability today.	0.00	0.00	0.00
1.0	Serve whether serve especially.	0.00	0.00	0.00
1.0	Set time according.	0.00	0.00	0.00
1.0	Seven class bad.	0.00	0.00	0.00
1.0	Seven job hot.	0.00	0.00	0.00
1.0	Seven physical card.	0.00	0.00	0.00
1.0	Shake large car.	0.00	0.00	0.00
1.0	She heart avoid.	0.00	0.00	0.00
1.0	Short suddenly sea.	0.00	0.00	0.00
1.0	Shoulder factor its almost condition.	0.00	0.00	0.00
1.0	Sign better individual learn.	0.00	0.00	0.00
1.0	Significant few.	0.00	0.00	0.00
1.0	Similar move myself relate report.	0.00	0.00	0.00
1.0	Simply fine threat risk.	0.00	0.00	0.00
1.0	Simply throughout its wall.	0.00	0.00	0.00
1.0	Since interest.	0.00	0.00	0.00
1.0	Since weight this myself station.	0.00	0.00	0.00
1.0	Single that standard goal room.	0.00	0.00	0.00
1.0	Sister court whom believe which.	0.00	0.00	0.00
1.0	Sit gas.	0.00	0.00	0.00
1.0	Sit subject field close.	0.00	0.00	0.00
1.0	Site such kitchen including.	0.00	0.00	0.00
1.0	Situation action door word.	0.00	0.00	0.00
1.0	Six provide wall certainly.	0.00	0.00	0.00
1.0	Skill create upon.	0.00	0.00	0.00
1.0	Small should add.	0.00	0.00	0.00
1.0	So southern.	0.00	0.00	0.00
1.0	Social great dream.	0.00	0.00	0.00
1.0	Society hit contain bank gas.	0.00	0.00	0.00
1.0	Soldier drop maintain.	0.00	0.00	0.00
1.0	Some since might.	0.00	0.00	0.00
1.0	Somebody site.	0.00	0.00	0.00
1.0	Source civil seven ok one.	0.00	0.00	0.00
1.0	South able long finally side.	0.00	0.00	0.00

1.0	South guess upon change day.	0.00	0.00	0.00
1.0	South while there.	0.00	0.00	0.00
1.0	Space staff us.	0.00	0.00	0.00
1.0	Space would later modern.	0.00	0.00	0.00
1.0	Speak support speak moment.	0.00	0.00	0.00
1.0	Speech actually election.	0.00	0.00	0.00
1.0	Speech cold stuff could.	0.00	0.00	0.00
1.0	Speech production air before boy.	0.00	0.00	0.00
1.0	Spend region edge interview.	0.00	0.00	0.00
1.0	Sport other stay agency.	0.00	0.00	0.00
1.0	Spring four fast.	0.00	0.00	0.00
1.0	Staff half better product.	0.00	0.00	0.00
1.0	Stand inside experience book.	0.00	0.00	0.00
1.0	Stand sense page.	0.00	0.00	0.00
1.0	Star wish study.	0.00	0.00	0.00
1.0	State gun worker he increase.	0.00	0.00	0.00
1.0	State weight heavy carry.	0.00	0.00	0.00
1.0	Station effect cell.	0.00	0.00	0.00
1.0	Station or still site.	0.00	0.00	0.00
1.0	Station we.	0.00	0.00	0.00
1.0	Stay national responsibility scientist.	0.00	0.00	0.00
1.0	Step run.	0.00	0.00	0.00
1.0	Stock always reveal.	0.00	0.00	0.00
1.0	Story born.	0.00	0.00	0.00
1.0	Story see movie school.	0.00	0.00	0.00
1.0	Strategy full happy help.	0.00	0.00	0.00
1.0	Street watch fact decide.	0.00	0.00	0.00
1.0	Strong mouth strong relationship ok.	0.00	0.00	0.00
1.0	Study want.	0.00	0.00	0.00
1.0	Successful large nation.	0.00	0.00	0.00
1.0	Successful set serious.	0.00	0.00	0.00
1.0	Such contain difference.	0.00	0.00	0.00
1.0	Suffer improve everything more.	0.00	0.00	0.00
1.0	Suffer likely prove.	0.00	0.00	0.00
1.0	Suggest call least.	0.00	0.00	0.00
1.0	Summer property audience.	0.00	0.00	0.00

1.0	Summer whose face artist ask.	0.00	0.00	0.00
1.0	Support recognize TV imagine.	0.00	0.00	0.00
1.0	Surface have.	0.00	0.00	0.00
1.0	System court play soldier.	0.00	0.00	0.00
1.0	System good process.	0.00	0.00	0.00
1.0	System itself actually learn movement.	0.00	0.00	0.00
1.0	Table head plan.	0.00	0.00	0.00
1.0	Take media.	0.00	0.00	0.00
1.0	Talk something theory gas spring.	0.00	0.00	0.00
1.0	Task space organization reduce paper.	0.00	0.00	0.00
1.0	Teach coach.	0.00	0.00	0.00
1.0	Teach later for.	0.00	0.00	0.00
1.0	Teacher owner radio easy.	0.00	0.00	0.00
1.0	Team style send.	0.00	0.00	0.00
1.0	Team wide.	0.00	0.00	0.00
1.0	Ten simple reveal religious.	0.00	0.00	0.00
1.0	Ten thus night.	0.00	0.00	0.00
1.0	Test across learn whom position.	0.00	0.00	0.00
1.0	Than official.	0.00	0.00	0.00
1.0	The Democrat senior.	0.00	0.00	0.00
1.0	Theory two drop seven.	0.00	0.00	0.00
1.0	There job open risk spend.	0.00	0.00	0.00
1.0	There public occur attack.	0.00	0.00	0.00
1.0	These attention forget agent only.	0.00	0.00	0.00
1.0	These left performance and.	0.00	0.00	0.00
1.0	Think parent body.	0.00	0.00	0.00
1.0	Threat even year tend.	0.00	0.00	0.00
1.0	Throw wonder gun.	0.00	0.00	0.00
1.0	Thus top.	0.00	0.00	0.00
1.0	Time see number current.	0.00	0.00	0.00
1.0	Today majority deal.	0.00	0.00	0.00
1.0	Top tell collection sport a.	0.00	0.00	0.00
1.0	Tough available carry.	0.00	0.00	0.00
1.0	Tough order.	0.00	0.00	0.00
1.0	Town that four.	0.00	0.00	0.00
1.0	Trade before strategy of.	0.00	0.00	0.00



1.0	Trade behavior science.	0.00	0.00	0.00
1.0	Traditional maybe reduce have.	0.00	0.00	0.00
1.0	Traditional start daughter foreign.	0.00	0.00	0.00
1.0	Traditional type clear.	0.00	0.00	0.00
1.0	Travel just floor pull deep.	0.00	0.00	0.00
1.0	Treatment democratic where true degree.	0.00	0.00	0.00
1.0	Treatment sister continue.	0.00	0.00	0.00
1.0	Trial special.	0.00	0.00	0.00
1.0	True fly president religious suddenly.	0.00	0.00	0.00
1.0	Try run.	0.00	0.00	0.00
1.0	Try seven place there.	0.00	0.00	0.00
1.0	Try style recently.	0.00	0.00	0.00
1.0	Turn eat environmental no.	0.00	0.00	0.00
1.0	Turn threat.	0.00	0.00	0.00
1.0	Two girl during nature.	0.00	0.00	0.00
1.0	Type according try.	0.00	0.00	0.00
1.0	Type pull.	0.00	0.00	0.00
1.0	Type role really thank.	0.00	0.00	0.00
1.0	Under week father race.	0.00	0.00	0.00
1.0	Until book choice.	0.00	0.00	0.00
1.0	Until guess between both.	0.00	0.00	0.00
1.0	Until recognize activity list never.	0.00	0.00	0.00
1.0	Until take appear station.	0.00	0.00	0.00
1.0	Us painting program industry.	0.00	0.00	0.00
1.0	Usually Mr certain.	0.00	0.00	0.00
1.0	Usually institution which.	0.00	0.00	0.00
1.0	Usually think though director.	0.00	0.00	0.00
1.0	Value couple you.	0.00	0.00	0.00
1.0	Value development guess art even.	0.00	0.00	0.00
1.0	Value exactly.	0.00	0.00	0.00
1.0	Value then sign war.	0.00	0.00	0.00
1.0	Various organization husband us.	0.00	0.00	0.00
1.0	Very air perform tree.	0.00	0.00	0.00
1.0	Very official serious discuss.	0.00	0.00	0.00
1.0	View return.	0.00	0.00	0.00
1.0	Visit allow magazine.	0.00	0.00	0.00

1.0	Visit exactly wall continue.	0.00	0.00	0.00
1.0	Voice meeting whom town.	0.00	0.00	0.00
1.0	Vote area.	0.00	0.00	0.00
1.0	Vote those.	0.00	0.00	0.00
1.0	Want commercial two smile.	0.00	0.00	0.00
1.0	War born total green.	0.00	0.00	0.00
1.0	Watch cell create.	0.00	0.00	0.00
1.0	We yeah thought then.	0.00	0.00	0.00
1.0	Wear skin support idea.	0.00	0.00	0.00
1.0	West which maintain become.	0.00	0.00	0.00
1.0	Western recent television involve.	0.00	0.00	0.00
1.0	When air study.	0.00	0.00	0.00
1.0	When part whom.	0.00	0.00	0.00
1.0	When partner.	0.00	0.00	0.00
1.0	Where money threat general.	0.00	0.00	0.00
1.0	While doctor time.	0.00	0.00	0.00
1.0	While product sometimes.	0.00	0.00	0.00
1.0	Whole stock our I reduce.	0.00	0.00	0.00
1.0	Whom less history matter.	0.00	0.00	0.00
0.0	Why through.	0.00	0.00	0.00
1.0	Wide safe partner.	0.00	0.00	0.00
1.0	Wide skill popular.	0.00	0.00	0.00
1.0	Wide what possible small billion.	0.00	0.00	0.00
0.0	Wife be step.	0.00	0.00	0.00
0.0	Will big few.	0.00	0.00	0.00
1.0	With card benefit onto understand.	0.00	0.00	0.00
1.0	Without improve determine film property.	0.00	0.00	0.00
1.0	Without office its condition.	0.00	0.00	0.00
1.0	Woman instead pay should.	0.00	0.00	0.00
1.0	Wonder mind seek.	0.00	0.00	0.00
1.0	Wonder try election store skin.	0.00	0.00	0.00
1.0	Word first.	0.00	0.00	0.00
1.0	Work five mission.	0.00	0.00	0.00
0.0	Work popular center defense road.	0.00	0.00	0.00
0.0	Work popular establish ground.	0.00	0.00	0.00
1.0	Worker hold light reflect.	0.00	0.00	0.00
0.0				

1.0	Worker treat nice rise conference.	0.00	0.00	0.00
1.0	Worry wife.	0.00	0.00	0.00
0.0	Would traditional.	0.00	0.00	0.00
1.0	Write magazine.	0.00	0.00	0.00
1.0	Write nothing sure determine should.	0.00	0.00	0.00
0.0	Write possible.	0.00	0.00	0.00
0.0	Writer health theory trade.	0.00	0.00	0.00
0.0	Wrong perform.	0.00	0.00	0.00
0.0	Yeah onto speak popular few.	0.00	0.00	0.00
1.0	Yeah policy born decision trouble.	0.00	0.00	0.00
0.0	Yeah scene name clearly store.	0.00	0.00	0.00
1.0	Yeah speech threat.	0.00	0.00	0.00
0.0	Year girl military.	0.00	0.00	0.00
0.0	Year within real hundred marriage.	0.00	0.00	0.00
0.0	Yes already tax.	0.00	0.00	0.00
0.0	Yes his six south.	0.00	0.00	0.00
0.0	Yes outside.	0.00	0.00	0.00
1.0	Yes toward family center toward.	0.00	0.00	0.00
0.0	Yet cell style.	0.00	0.00	0.00
0.0	Yet wish defense car.	0.00	0.00	0.00
0.0	You citizen save because produce.	0.00	0.00	0.00
0.0	You himself man.	0.00	0.00	0.00
1.0	You increase forward wife exist.	0.00	0.00	0.00
0.0	You over allow choose together.	0.00	0.00	0.00
1.0	Young believe stand no.	0.00	0.00	0.00
0.0	Young discussion toward sign.	0.00	0.00	0.00
0.0	Young effort leader.	0.00	0.00	0.00
0.0	Young growth challenge.	0.00	0.00	0.00
0.0	Young gun boy.	0.00	0.00	0.00
1.0	Young perhaps radio building.	0.00	0.00	0.00
1.0	Your interview.	0.00	0.00	0.00
0.0	Your policy fire bad.	0.00	0.00	0.00
0.0	Yourself field cold.	0.00	0.00	0.00
0.0	Yourself player shake other think.	0.00	0.00	0.00
0.0	Yourself standard talk.	0.00	0.00	0.00

accuracy

0.00

800.0				
	macro avg	0.00	0.00	0.00
800.0				
	weighted avg	0.00	0.00	0.00
800.0				

# KNN Classification Report:

		precision	recall	f1-score	su
pport					
	A statement.	0.00	0.00	0.00	
1.0					
	Ability guy foreign.	0.00	0.00	0.00	
1.0					
	Able foreign.	0.00	0.00	0.00	
1.0					
	Able ready scene.	0.00	0.00	0.00	
1.0					
	About lawyer can similar.	0.00	0.00	0.00	
1.0					
	Above success region.	0.00	0.00	0.00	
1.0					
	Above those professor their.	0.00	0.00	0.00	
1.0					
	Accept direction wonder federal one.	0.00	0.00	0.00	
1.0					
	According most put agent major.	0.00	0.00	0.00	
1.0					
	Account our certainly.	0.00	0.00	0.00	
0.0					
	Action institution.	0.00	0.00	0.00	
1.0					
	Actually task.	0.00	0.00	0.00	
1.0					
	Address weight never simply.	0.00	0.00	0.00	
0.0					
	Administration challenge drop.	0.00	0.00	0.00	
1.0					
	Administration scene suffer.	0.00	0.00	0.00	
1.0					
	Admit PM pick society third.	0.00	0.00	0.00	
0.0					
	Adult color reach.	0.00	0.00	0.00	
1.0					
	Affect network support key.	0.00	0.00	0.00	
1.0					
	Affect occur item.	0.00	0.00	0.00	
1.0					
	After next by.	0.00	0.00	0.00	
0.0					
	Again dark education.	0.00	0.00	0.00	
1.0					
	Agency film say whom whole.	0.00	0.00	0.00	
1.0					
	Agency free senior positive less.	0.00	0.00	0.00	
1.0					
	Agent likely bill finish.	0.00	0.00	0.00	
0.0					
	Ago else why himself.	0.00	0.00	0.00	
1.0					
	Agree any else present tough.	0.00	0.00	0.00	
1.0					
	Agree official former never while.	0.00	0.00	0.00	
1.0					
	Agreement building several remember.	0.00	0.00	0.00	
1.0					
	Agreement fill hot administration.	0.00	0.00	0.00	
1.0					
	Agreement once three.	0.00	0.00	0.00	
1.0					

1.0	Ahead stage reason.	0.00	0.00	0.00
1.0	Air phone share material myself.	0.00	0.00	0.00
1.0	Air these kitchen protect it.	0.00	0.00	0.00
1.0	Along bill least.	0.00	0.00	0.00
1.0	Along structure fund.	0.00	0.00	0.00
1.0	Already data already morning suffer.	0.00	0.00	0.00
1.0	Already hundred type.	0.00	0.00	0.00
1.0	Always respond center including.	0.00	0.00	0.00
1.0	American mention participant present cultural.	0.00	0.00	0.00
1.0	Animal soon somebody.	0.00	0.00	0.00
1.0	Another wonder general professional.	0.00	0.00	0.00
1.0	Answer risk pass.	0.00	0.00	0.00
0.0	Answer truth produce.	0.00	0.00	0.00
0.0	Any share cause research affect.	0.00	0.00	0.00
1.0	Anything big stay season.	0.00	0.00	0.00
1.0	Appear beat television.	0.00	0.00	0.00
1.0	Argue decade rise defense.	0.00	0.00	0.00
1.0	Arrive call Mrs.	0.00	0.00	0.00
1.0	Arrive happy section.	0.00	0.00	0.00
1.0	Art father even might.	0.00	0.00	0.00
1.0	Article here.	0.00	0.00	0.00
1.0	As interest action believe.	0.00	0.00	0.00
1.0	Assume season see conference.	0.00	0.00	0.00
1.0	Attack new personal.	0.00	0.00	0.00
1.0	Attorney doctor adult center themselves.	0.00	0.00	0.00
1.0	Attorney study.	0.00	0.00	0.00
1.0	Audience usually avoid.	0.00	0.00	0.00
1.0	Authority us box.	0.00	0.00	0.00
1.0	Avoid more worker.	0.00	0.00	0.00
1.0	Away despite that suddenly.	0.00	0.00	0.00
0.0	Away general fund pay.	0.00	0.00	0.00
1.0	Baby whatever.	0.00	0.00	0.00
1.0	Back stuff everybody turn.	0.00	0.00	0.00
1.0	Bad mean.	0.00	0.00	0.00
1.0	Bag move.	0.00	0.00	0.00
1.0	Bank policy force piece.	0.00	0.00	0.00

1.0	Bank red small major lot.	0.00	0.00	0.00
1.0	Bar protect quality thousand.	0.00	0.00	0.00
1.0	Bar successful since.	0.00	0.00	0.00
1.0	Beat still quite feel practice.	0.00	0.00	0.00
1.0	Because three market.	0.00	0.00	0.00
1.0	Become tend rise much.	0.00	0.00	0.00
1.0	Bed I sound.	0.00	0.00	0.00
0.0	Bed run one seven.	0.00	0.00	0.00
1.0	Before else part.	0.00	0.00	0.00
1.0	Begin language.	0.00	0.00	0.00
1.0	Begin north prevent our.	0.00	0.00	0.00
0.0	Behavior product father in lot.	0.00	0.00	0.00
1.0	Behind go democratic change.	0.00	0.00	0.00
1.0	Believe believe name end shoulder.	0.00	0.00	0.00
1.0	Benefit responsibility.	0.00	0.00	0.00
1.0	Best though.	0.00	0.00	0.00
1.0	Better course Mrs agency.	0.00	0.00	0.00
1.0	Between buy suddenly may.	0.00	0.00	0.00
1.0	Between way little their.	0.00	0.00	0.00
1.0	Big perhaps exactly.	0.00	0.00	0.00
1.0	Big put.	0.00	0.00	0.00
1.0	Bill future four.	0.00	0.00	0.00
1.0	Bill pattern.	0.00	0.00	0.00
1.0	Billion difficult.	0.00	0.00	0.00
0.0	Billion follow.	0.00	0.00	0.00
1.0	Billion scientist.	0.00	0.00	0.00
1.0	Bit paper final wide.	0.00	0.00	0.00
1.0	Black major threat.	0.00	0.00	0.00
1.0	Blood everything organization.	0.00	0.00	0.00
1.0	Blue much head.	0.00	0.00	0.00
1.0	Blue wear according air industry.	0.00	0.00	0.00
1.0	Board follow money media.	0.00	0.00	0.00
1.0	Board live true model similar.	0.00	0.00	0.00
1.0	Board provide star.	0.00	0.00	0.00
1.0	Body almost.	0.00	0.00	0.00
1.0	Body law speak service director.	0.00	0.00	0.00
1.0				

1.0	Body value organization good.	0.00	0.00	0.00
1.0	Body visit.	0.00	0.00	0.00
1.0	Book personal price world.	0.00	0.00	0.00
1.0	Born environment family.	0.00	0.00	0.00
1.0	Box difficult become today.	0.00	0.00	0.00
1.0	Boy assume smile rise.	0.00	0.00	0.00
1.0	Bring fly man current senior.	0.00	0.00	0.00
1.0	Budget yes compare behind never.	0.00	0.00	0.00
1.0	Build loss mean certain remember.	0.00	0.00	0.00
1.0	But ability get age system.	0.00	0.00	0.00
1.0	By executive woman almost.	0.00	0.00	0.00
1.0	Call cause skin.	0.00	0.00	0.00
1.0	Camera laugh population.	0.00	0.00	0.00
1.0	Camera similar side allow.	0.00	0.00	0.00
1.0	Campaign smile poor control talk.	0.00	0.00	0.00
1.0	Campaign yard trip challenge.	0.00	0.00	0.00
1.0	Can each bed particular fast.	0.00	0.00	0.00
1.0	Capital picture action country.	0.00	0.00	0.00
1.0	Career Congress tough.	0.00	0.00	0.00
1.0	Case guess body however cost.	0.00	0.00	0.00
1.0	Cell wind could.	0.00	0.00	0.00
1.0	Center leave continue call the.	0.00	0.00	0.00
1.0	Century ask ground daughter.	0.00	0.00	0.00
1.0	Century country.	0.00	0.00	0.00
0.0	Chair staff agreement similar.	0.00	0.00	0.00
1.0	Challenge particularly me.	0.00	0.00	0.00
1.0	Chance become response human read.	0.00	0.00	0.00
1.0	Chance beyond factor history.	0.00	0.00	0.00
1.0	Chance senior force cover.	0.00	0.00	0.00
0.0	Change agreement.	0.00	0.00	0.00
0.0	Change ahead simply.	0.00	0.00	0.00
1.0	Change list rock rise.	0.00	0.00	0.00
1.0	Character career same way accept.	0.00	0.00	0.00
1.0	Charge take military.	0.00	0.00	0.00
1.0	Charge walk answer various.	0.00	0.00	0.00
1.0	Child begin section.	0.00	0.00	0.00

1.0	Child down newspaper important.	0.00	0.00	0.00
1.0	Child imagine law.	0.00	0.00	0.00
1.0	Choice generation entire wrong fly.	0.00	0.00	0.00
1.0	Choice mission.	0.00	0.00	0.00
1.0	Choose trouble turn.	0.00	0.00	0.00
1.0	Citizen watch most wear well.	0.00	0.00	0.00
1.0	City maintain create worker center.	0.00	0.00	0.00
1.0	Civil low accept performance.	0.00	0.00	0.00
1.0	Civil prove painting concern bit.	0.00	0.00	0.00
1.0	Claim become.	0.00	0.00	0.00
0.0	Claim want be hit increase.	0.00	0.00	0.00
1.0	Class at various month decision.	0.00	0.00	0.00
1.0	Class see represent movie find.	0.00	0.00	0.00
1.0	Clear participant.	0.00	0.00	0.00
1.0	Clearly cost improve.	0.00	0.00	0.00
1.0	Coach lose too reduce prove.	0.00	0.00	0.00
1.0	Collection actually actually at economy.	0.00	0.00	0.00
1.0	College few language relationship occur.	0.00	0.00	0.00
1.0	Color machine style paper tree.	0.00	0.00	0.00
1.0	Common reach door per.	0.00	0.00	0.00
1.0	Community generation recently bar impact.	0.00	0.00	0.00
1.0	Compare five.	0.00	0.00	0.00
1.0	Computer matter manager now.	0.00	0.00	0.00
1.0	Computer police prepare the.	0.00	0.00	0.00
1.0	Condition use before check.	0.00	0.00	0.00
1.0	Condition visit purpose.	0.00	0.00	0.00
1.0	Congress than.	0.00	0.00	0.00
0.0	Consumer join nothing subject.	0.00	0.00	0.00
1.0	Consumer like beat.	0.00	0.00	0.00
1.0	Contain instead.	0.00	0.00	0.00
1.0	Contain station within coach.	0.00	0.00	0.00
1.0	Control foot may player.	0.00	0.00	0.00
1.0	Cost which hotel final.	0.00	0.00	0.00
1.0	Country as identify capital maintain.	0.00	0.00	0.00
1.0	Couple cost imagine term.	0.00	0.00	0.00
1.0	Course determine live prove.	0.00	0.00	0.00



1.0	Court though save pass.	0.00	0.00	0.00
1.0	Cover economy table guess.	0.00	0.00	0.00
0.0	Create add why remember happy.	0.00	0.00	0.00
1.0	Crime everybody strong capital.	0.00	0.00	0.00
1.0	Cultural like food concern.	0.00	0.00	0.00
1.0	Cut whole writer.	0.00	0.00	0.00
1.0	Data exactly everything.	0.00	0.00	0.00
1.0	Daughter I military worry.	0.00	0.00	0.00
1.0	Daughter generation attack pass knowledge.	0.00	0.00	0.00
0.0	Day teach.	0.00	0.00	0.00
1.0	Deal treat.	0.00	0.00	0.00
0.0	Debate amount through growth enough.	0.00	0.00	0.00
1.0	Decade final easy.	0.00	0.00	0.00
1.0	Defense big.	0.00	0.00	0.00
1.0	Democrat morning list exactly bill.	0.00	0.00	0.00
1.0	Design worry easy into.	0.00	0.00	0.00
1.0	Despite wish under.	0.00	0.00	0.00
1.0	Detail scientist.	0.00	0.00	0.00
1.0	Determine three tonight.	0.00	0.00	0.00
1.0	Development laugh task church magazine.	0.00	0.00	0.00
1.0	Difficult hotel.	0.00	0.00	0.00
1.0	Direction affect imagine state magazine.	0.00	0.00	0.00
0.0	Director agree power.	0.00	0.00	0.00
1.0	Discover nice just item Mrs.	0.00	0.00	0.00
1.0	Discover operation.	0.00	0.00	0.00
1.0	Discover site push president.	0.00	0.00	0.00
1.0	Discuss because hand care.	0.00	0.00	0.00
1.0	Discuss participant international change seem.	0.00	0.00	0.00
0.0	Dog foreign use.	0.00	0.00	0.00
1.0	Door management.	0.00	0.00	0.00
1.0	Door those often.	0.00	0.00	0.00
1.0	Down always vote.	0.00	0.00	0.00
1.0	Dream two happy certainly.	0.00	0.00	0.00
1.0	Drug campaign reach consider.	0.00	0.00	0.00
1.0	Drug collection wrong him food.	0.00	0.00	0.00
1.0	Each why different.	0.00	0.00	0.00

1.0	Early despite thousand order.	0.00	0.00	0.00
1.0	Easy quality customer pretty.	0.00	0.00	0.00
1.0	Edge almost hotel.	0.00	0.00	0.00
1.0	Edge seek peace ever.	0.00	0.00	0.00
1.0	Effort decide cover out.	0.00	0.00	0.00
1.0	Eight dark property.	0.00	0.00	0.00
1.0	End impact agency fill.	0.00	0.00	0.00
1.0	Energy only last choice.	0.00	0.00	0.00
1.0	Enjoy bed movement upon security.	0.00	0.00	0.00
1.0	Enjoy often focus support.	0.00	0.00	0.00
1.0	Enter team treatment huge.	0.00	0.00	0.00
1.0	Entire or ago dark.	0.00	0.00	0.00
1.0	Entire picture.	0.00	0.00	0.00
1.0	Entire still loss hundred.	0.00	0.00	0.00
0.0	Entire tree success.	0.00	0.00	0.00
1.0	Entire true manage call.	0.00	0.00	0.00
1.0	Environment maintain knowledge boy.	0.00	0.00	0.00
1.0	Especially main involve.	0.00	0.00	0.00
1.0	Establish administration.	0.00	0.00	0.00
1.0	Evening mouth film animal.	0.00	0.00	0.00
1.0	Everybody fall.	0.00	0.00	0.00
1.0	Exactly cup trouble.	0.00	0.00	0.00
1.0	Example point member wife.	0.00	0.00	0.00
1.0	Exist history report direction stop.	0.00	0.00	0.00
0.0	Exist white herself board.	0.00	0.00	0.00
1.0	Experience develop certainly.	0.00	0.00	0.00
1.0	Experience play society wear.	0.00	0.00	0.00
1.0	Experience them create.	0.00	0.00	0.00
1.0	Family charge within student.	0.00	0.00	0.00
1.0	Family system among decide provide.	0.00	0.00	0.00
1.0	Fast toward decision.	0.00	0.00	0.00
1.0	Fear close ground tend.	0.00	0.00	0.00
1.0	Fear idea.	0.00	0.00	0.00
1.0	Fear live order she.	0.00	0.00	0.00
1.0	Federal recently.	0.00	0.00	0.00
1.0	Feel Democrat.	0.00	0.00	0.00

1.0	Feel fall water lose.	0.00	0.00	0.00
1.0	Feel including perhaps much.	0.00	0.00	0.00
1.0	Fight baby right.	0.00	0.00	0.00
1.0	Figure particularly down peace race.	0.00	0.00	0.00
1.0	Film current so thousand continue.	0.00	0.00	0.00
1.0	Final skin without.	0.00	0.00	0.00
1.0	Fine even phone example.	0.00	0.00	0.00
1.0	First camera level less form.	0.00	0.00	0.00
1.0	First simple property.	0.00	0.00	0.00
1.0	First yard.	0.00	0.00	0.00
1.0	Fish modern hair shoulder.	0.00	0.00	0.00
1.0	Fish world ready hotel response.	0.00	0.00	0.00
1.0	Five field play city.	0.00	0.00	0.00
1.0	Five item truth once else.	0.00	0.00	0.00
1.0	Floor in quite.	0.00	0.00	0.00
1.0	Floor not.	0.00	0.00	0.00
1.0	Floor unit support still.	0.00	0.00	0.00
1.0	Follow bad account need.	0.00	0.00	0.00
0.0	Follow face important month.	0.00	0.00	0.00
1.0	For research accept.	0.00	0.00	0.00
1.0	Forget treatment whose become.	0.00	0.00	0.00
1.0	Form American car necessary situation.	0.00	0.00	0.00
1.0	Former campaign rich.	0.00	0.00	0.00
1.0	Forward commercial my draw.	0.00	0.00	0.00
1.0	Forward music operation.	0.00	0.00	0.00
1.0	Forward wrong safe book.	0.00	0.00	0.00
1.0	Friend enjoy establish.	0.00	0.00	0.00
1.0	Friend statement understand.	0.00	0.00	0.00
0.0	Friend their involve tough sell.	0.00	0.00	0.00
1.0	Full stand turn still magazine.	0.00	0.00	0.00
1.0	Full want.	0.00	0.00	0.00
1.0	Fund they.	0.00	0.00	0.00
1.0	Garden especially bad PM.	0.00	0.00	0.00
1.0	Gas attorney letter herself.	0.00	0.00	0.00
1.0	Gas material.	0.00	0.00	0.00
1.0	Gas similar care some.	0.00	0.00	0.00

1.0	Girl body strong phone.	0.00	0.00	0.00
1.0	Give dog anything.	0.00	0.00	0.00
1.0	Glass free participant.	0.00	0.00	0.00
1.0	Go lay traditional.	0.00	0.00	0.00
1.0	Goal without show.	0.00	0.00	0.00
1.0	Good arm behind.	0.00	0.00	0.00
1.0	Good history sing movie.	0.00	0.00	0.00
1.0	Government else.	0.00	0.00	0.00
1.0	Government identify ahead.	0.00	0.00	0.00
1.0	Great budget set.	0.00	0.00	0.00
1.0	Great money he.	0.00	0.00	0.00
1.0	Great win keep.	0.00	0.00	0.00
1.0	Ground movie why level director.	0.00	0.00	0.00
1.0	Ground new.	0.00	0.00	0.00
1.0	Grow different opportunity.	0.00	0.00	0.00
1.0	Growth every chair.	0.00	0.00	0.00
1.0	Guess chance power.	0.00	0.00	0.00
1.0	Guess product beat house.	0.00	0.00	0.00
1.0	Guess whatever daughter.	0.00	0.00	0.00
1.0	Gun inside kind only debate.	0.00	0.00	0.00
1.0	Hair require body.	0.00	0.00	0.00
0.0	Half see recognize include.	0.00	0.00	0.00
1.0	Happen project.	0.00	0.00	0.00
1.0	Happen thousand different.	0.00	0.00	0.00
1.0	Have early government.	0.00	0.00	0.00
1.0	Head significant dog.	0.00	0.00	0.00
1.0	Hear attorney.	0.00	0.00	0.00
1.0	Hear guess.	0.00	0.00	0.00
1.0	Heart each manager mother.	0.00	0.00	0.00
1.0	Heart large idea government.	0.00	0.00	0.00
1.0	Her front car budget.	0.00	0.00	0.00
1.0	Himself bed sister head.	0.00	0.00	0.00
1.0	Himself fall interview assume.	0.00	0.00	0.00
1.0	Himself guy statement tend.	0.00	0.00	0.00
1.0	His concern.	0.00	0.00	0.00
1.0	History central low development provide.	0.00	0.00	0.00

1.0	Home radio decade.	0.00	0.00	0.00
1.0	Hope they.	0.00	0.00	0.00
1.0	Hope yes television game view.	0.00	0.00	0.00
1.0	How arrive.	0.00	0.00	0.00
1.0	However city.	0.00	0.00	0.00
1.0	However eight probably prove.	0.00	0.00	0.00
1.0	However rate.	0.00	0.00	0.00
1.0	However speak wall.	0.00	0.00	0.00
1.0	Human employee attention.	0.00	0.00	0.00
1.0	Hundred including age require.	0.00	0.00	0.00
1.0	Hundred positive prevent.	0.00	0.00	0.00
1.0	Husband laugh him perhaps.	0.00	0.00	0.00
1.0	Husband you identify yard.	0.00	0.00	0.00
1.0	I the among.	0.00	0.00	0.00
1.0	Idea message suffer.	0.00	0.00	0.00
1.0	Idea region grow hand between.	0.00	0.00	0.00
1.0	Identify someone collection song.	0.00	0.00	0.00
1.0	If beautiful.	0.00	0.00	0.00
1.0	If exist minute.	0.00	0.00	0.00
1.0	Image also media.	0.00	0.00	0.00
1.0	Image good stop.	0.00	0.00	0.00
1.0	Image why computer daughter.	0.00	0.00	0.00
1.0	Imagine affect market better two.	0.00	0.00	0.00
1.0	Impact add blood student.	0.00	0.00	0.00
0.0	Impact police age responsibility similar.	0.00	0.00	0.00
1.0	Improve wish light.	0.00	0.00	0.00
1.0	In own public break.	0.00	0.00	0.00
1.0	Include billion trade.	0.00	0.00	0.00
1.0	Include case get pull.	0.00	0.00	0.00
1.0	Including must hard social organization.	0.00	0.00	0.00
1.0	Including product.	0.00	0.00	0.00
1.0	Increase class exist.	0.00	0.00	0.00
1.0	Indeed bank style project also.	0.00	0.00	0.00
1.0	Indeed society police report prepare.	0.00	0.00	0.00
1.0	Indicate particularly factor record sister.	0.00	0.00	0.00
1.0	Individual its through performance.	0.00	0.00	0.00

1.0	Individual quickly mind inside have.	0.00	0.00	0.00
1.0	Industry always debate east.	0.00	0.00	0.00
1.0	Industry article walk.	0.00	0.00	0.00
1.0	Information next or.	0.00	0.00	0.00
1.0	Instead hope put.	0.00	0.00	0.00
1.0	Instead want itself at summer.	0.00	0.00	0.00
1.0	Institution peace.	0.00	0.00	0.00
1.0	Interest ok during recognize short.	0.00	0.00	0.00
1.0	Interest sing.	0.00	0.00	0.00
1.0	International because environment available benefit.	0.00	0.00	0.00
1.0	International total simple.	0.00	0.00	0.00
1.0	Interview subject heavy senior report.	0.00	0.00	0.00
1.0	Into public.	0.00	0.00	0.00
1.0	Investment when.	0.00	0.00	0.00
1.0	It enjoy turn.	0.00	0.00	0.00
1.0	It home especially physical.	0.00	0.00	0.00
1.0	Its law.	0.00	0.00	0.00
1.0	Its newspaper.	0.00	0.00	0.00
1.0	Its recently true concern life.	0.00	0.00	0.00
1.0	Itself including far seem evening.	0.00	0.00	0.00
1.0	Job executive protect week.	0.00	0.00	0.00
1.0	Job serve guy.	0.00	0.00	0.00
1.0	Job state paper.	0.00	0.00	0.00
1.0	Just dinner husband office.	0.00	0.00	0.00
1.0	Keep gas increase commercial.	0.00	0.00	0.00
1.0	Key shoulder.	0.00	0.00	0.00
1.0	Kid spend wrong.	0.00	0.00	0.00
1.0	Kitchen pay consider.	0.00	0.00	0.00
1.0	Kitchen record position under.	0.00	0.00	0.00
1.0	Know financial down move long.	0.00	0.00	0.00
0.0	Know too.	0.00	0.00	0.00
1.0	Knowledge campaign doctor character guy.	0.00	0.00	0.00
1.0	Knowledge character involve foot situation.	0.00	0.00	0.00
1.0	Land beautiful which their past.	0.00	0.00	0.00
1.0	Language office section.	0.00	0.00	0.00
1.0	Language teacher red.	0.00	0.00	0.00

0.0	Large I treatment conference brother.	0.00	0.00	0.00
1.0	Large develop new total.	0.00	0.00	0.00
1.0	Last most job.	0.00	0.00	0.00
1.0	Late church recently hard structure.	0.00	0.00	0.00
1.0	Late nation view week avoid.	0.00	0.00	0.00
1.0	Laugh however sell most.	0.00	0.00	0.00
1.0	Laugh property side.	0.00	0.00	0.00
1.0	Law soldier member.	0.00	0.00	0.00
1.0	Lawyer agreement cost cup.	0.00	0.00	0.00
1.0	Lawyer she note present personal.	0.00	0.00	0.00
1.0	Lead treatment country.	0.00	0.00	0.00
1.0	Leader among task wait by.	0.00	0.00	0.00
1.0	Leader hair.	0.00	0.00	0.00
1.0	Learn hit those.	0.00	0.00	0.00
1.0	Least certainly phone near.	0.00	0.00	0.00
1.0	Least other team.	0.00	0.00	0.00
1.0	Leg over simply day why.	0.00	0.00	0.00
1.0	Leg partner.	0.00	0.00	0.00
1.0	Leg put interest TV.	0.00	0.00	0.00
1.0	Let crime.	0.00	0.00	0.00
1.0	Let development.	0.00	0.00	0.00
1.0	Level front third plan trip.	0.00	0.00	0.00
1.0	Light modern hard.	0.00	0.00	0.00
1.0	Likely cup instead history.	0.00	0.00	0.00
1.0	Line me strong box four.	0.00	0.00	0.00
1.0	Listen green argue second.	0.00	0.00	0.00
1.0	Little something tell enter produce.	0.00	0.00	0.00
1.0	Little walk work brother four.	0.00	0.00	0.00
1.0	Live culture must expert red.	0.00	0.00	0.00
1.0	Long protect rate meeting describe.	0.00	0.00	0.00
1.0	Lot dream trade debate.	0.00	0.00	0.00
1.0	Lot responsibility here fund.	0.00	0.00	0.00
1.0	Low seek.	0.00	0.00	0.00
1.0	Magazine window southern speak expert.	0.00	0.00	0.00
1.0	Main letter.	0.00	0.00	0.00
1.0	Main manager director official various.	0.00	0.00	0.00

1.0	Major north force.	0.00	0.00	0.00
1.0	Man again fill popular knowledge.	0.00	0.00	0.00
1.0	Man finish office.	0.00	0.00	0.00
1.0	Man within owner.	0.00	0.00	0.00
1.0	Manage lose for draw.	0.00	0.00	0.00
1.0	Management four.	0.00	0.00	0.00
1.0	Management identify artist fire.	0.00	0.00	0.00
1.0	Manager left discuss.	0.00	0.00	0.00
1.0	Manager tax concern.	0.00	0.00	0.00
1.0	Marriage central later.	0.00	0.00	0.00
1.0	Marriage for manager why.	0.00	0.00	0.00
1.0	Matter special that.	0.00	0.00	0.00
1.0	Maybe and special.	0.00	0.00	0.00
1.0	Maybe later.	0.00	0.00	0.00
1.0	Measure matter protect amount medical.	0.00	0.00	0.00
1.0	Measure process issue trip.	0.00	0.00	0.00
1.0	Meet manage.	0.00	0.00	0.00
1.0	Meeting test well responsibility.	0.00	0.00	0.00
1.0	Member once mission white.	0.00	0.00	0.00
1.0	Mention defense across care.	0.00	0.00	0.00
1.0	Mention majority fish budget.	0.00	0.00	0.00
1.0	Message sea production about center.	0.00	0.00	0.00
1.0	Method expert blood east.	0.00	0.00	0.00
1.0	Million business rise.	0.00	0.00	0.00
1.0	Mind arrive.	0.00	0.00	0.00
1.0	Minute shoulder type push structure.	0.00	0.00	0.00
1.0	Miss national service.	0.00	0.00	0.00
1.0	Modern course clear.	0.00	0.00	0.00
1.0	Modern glass law.	0.00	0.00	0.00
1.0	Moment best.	0.00	0.00	0.00
1.0	Money technology power oil.	0.00	0.00	0.00
1.0	Morning our cell.	0.00	0.00	0.00
1.0	Mother high manage radio.	0.00	0.00	0.00
1.0	Mr as current.	0.00	0.00	0.00
1.0	Mr support bar.	0.00	0.00	0.00
1.0	Much dog likely listen market.	0.00	0.00	0.00



1.0	Much understand our lead decade.	0.00	0.00	0.00
1.0	Music fear always smile.	0.00	0.00	0.00
1.0	My role pass situation.	0.00	0.00	0.00
1.0	My song information environment.	0.00	0.00	0.00
1.0	Nature form two.	0.00	0.00	0.00
1.0	Nature heavy interesting.	0.00	0.00	0.00
1.0	Nature size officer.	0.00	0.00	0.00
1.0	Nearly account contain.	0.00	0.00	0.00
1.0	Nearly far might then.	0.00	0.00	0.00
1.0	Nearly his right prevent.	0.00	0.00	0.00
1.0	Necessary food experience ten care.	0.00	0.00	0.00
1.0	New bed.	0.00	0.00	0.00
1.0	New father design should between.	0.00	0.00	0.00
1.0	New get under.	0.00	0.00	0.00
1.0	New her again positive.	0.00	0.00	0.00
1.0	News fear season.	0.00	0.00	0.00
1.0	Nice fall.	0.00	0.00	0.00
1.0	Nice increase consumer.	0.00	0.00	0.00
1.0	Nice personal.	0.00	0.00	0.00
1.0	Nice thousand can use.	0.00	0.00	0.00
1.0	Night focus way.	0.00	0.00	0.00
1.0	No stage.	0.00	0.00	0.00
1.0	No west occur note could.	0.00	0.00	0.00
1.0	None sure.	0.00	0.00	0.00
1.0	Nor career score.	0.00	0.00	0.00
1.0	Nor without.	0.00	0.00	0.00
1.0	North a force.	0.00	0.00	0.00
1.0	North pick.	0.00	0.00	0.00
1.0	Not series south themselves.	0.00	0.00	0.00
1.0	Not south account sure.	0.00	0.00	0.00
1.0	Note five down.	0.00	0.00	0.00
0.0	Note region wind.	0.00	0.00	0.00
1.0	Note where guy.	0.00	0.00	0.00
1.0	Notice record fund.	0.00	0.00	0.00
1.0	Now change not magazine.	0.00	0.00	0.00
1.0	Now forward peace.	0.00	0.00	0.00

1.0	Now project high team.	0.00	0.00	0.00
1.0	Number language picture sound.	0.00	0.00	0.00
1.0	Off soon.	0.00	0.00	0.00
1.0	Offer sure really natural.	0.00	0.00	0.00
1.0	Office cultural paper analysis.	0.00	0.00	0.00
1.0	Often other walk energy.	0.00	0.00	0.00
1.0	Oil article stay order.	0.00	0.00	0.00
1.0	Oil even size.	0.00	0.00	0.00
1.0	Oil group treat less prevent.	0.00	0.00	0.00
1.0	Ok machine.	0.00	0.00	0.00
1.0	One community sense main or.	0.00	0.00	0.00
1.0	One continue into security.	0.00	0.00	0.00
1.0	One cultural behavior less individual.	0.00	0.00	0.00
1.0	Only perhaps.	0.00	0.00	0.00
1.0	Onto approach field energy.	0.00	0.00	0.00
1.0	Open lose defense.	0.00	0.00	0.00
1.0	Open piece.	0.00	0.00	0.00
1.0	Operation success just position.	0.00	0.00	0.00
1.0	Opportunity significant group cell.	0.00	0.00	0.00
1.0	Opportunity sit short through ability.	0.00	0.00	0.00
1.0	Option specific value ball.	0.00	0.00	0.00
1.0	Or nice difference.	0.00	0.00	0.00
1.0	Organization law school.	0.00	0.00	0.00
1.0	Other by.	0.00	0.00	0.00
1.0	Other charge.	0.00	0.00	0.00
1.0	Other test.	0.00	0.00	0.00
1.0	Outside leg run.	0.00	0.00	0.00
1.0	Over a.	0.00	0.00	0.00
1.0	Over field must explain.	0.00	0.00	0.00
1.0	Own executive whom.	0.00	0.00	0.00
1.0	Own imagine throughout.	0.00	0.00	0.00
1.0	Own international.	0.00	0.00	0.00
1.0	Owner list public.	0.00	0.00	0.00
1.0	Owner road.	0.00	0.00	0.00
1.0	Painting fast dog eye.	0.00	0.00	0.00
1.0	Painting letter better him.	0.00	0.00	0.00
1.0				

1.0	Painting stand free least.	0.00	0.00	0.00
1.0	Paper attention almost huge type.	0.00	0.00	0.00
1.0	Parent share sign a.	0.00	0.00	0.00
1.0	Part book character.	0.00	0.00	0.00
1.0	Particularly economy add give well.	0.00	0.00	0.00
1.0	Particularly space.	0.00	0.00	0.00
1.0	Partner maybe husband compare.	0.00	0.00	0.00
1.0	Pattern cold such.	0.00	0.00	0.00
1.0	Pay grow southern movie lawyer.	0.00	0.00	0.00
1.0	Peace by small.	0.00	0.00	0.00
1.0	Performance measure trip information nice.	0.00	0.00	0.00
1.0	Personal agency doctor.	0.00	0.00	0.00
1.0	Picture generation kitchen affect full.	0.00	0.00	0.00
1.0	Piece lot everybody pull.	0.00	0.00	0.00
1.0	Piece never message fear.	0.00	0.00	0.00
1.0	Plant job that.	0.00	0.00	0.00
1.0	Play interview fire.	0.00	0.00	0.00
1.0	Player imagine road second.	0.00	0.00	0.00
1.0	Player research common call collection.	0.00	0.00	0.00
1.0	Pm public class create.	0.00	0.00	0.00
1.0	Point note.	0.00	0.00	0.00
1.0	Political end guess simply.	0.00	0.00	0.00
1.0	Population to state particularly.	0.00	0.00	0.00
1.0	Position agency surface.	0.00	0.00	0.00
1.0	Position officer trip space.	0.00	0.00	0.00
1.0	Positive plan.	0.00	0.00	0.00
1.0	Possible popular if something main.	0.00	0.00	0.00
1.0	President movement reach.	0.00	0.00	0.00
1.0	President road oil late though.	0.00	0.00	0.00
1.0	Pretty guess deep form campaign.	0.00	0.00	0.00
1.0	Price bad national.	0.00	0.00	0.00
1.0	Price kid party.	0.00	0.00	0.00
1.0	Process six.	0.00	0.00	0.00
1.0	Produce author.	0.00	0.00	0.00
1.0	Product back line scene.	0.00	0.00	0.00
1.0	Product price series kitchen great.	0.00	0.00	0.00

1.0	Product whether.	0.00	0.00	0.00
1.0	Production piece game.	0.00	0.00	0.00
1.0	Production type instead.	0.00	0.00	0.00
1.0	Professional bank land institution exist.	0.00	0.00	0.00
1.0	Professional sit star husband.	0.00	0.00	0.00
1.0	Professor somebody.	0.00	0.00	0.00
1.0	Project brother case parent.	0.00	0.00	0.00
1.0	Project hair go again.	0.00	0.00	0.00
1.0	Property could necessary.	0.00	0.00	0.00
1.0	Property interesting lawyer.	0.00	0.00	0.00
1.0	Protect scientist physical.	0.00	0.00	0.00
1.0	Public note rate cold.	0.00	0.00	0.00
1.0	Pull turn situation.	0.00	0.00	0.00
1.0	Pull very him able.	0.00	0.00	0.00
1.0	Question themselves at.	0.00	0.00	0.00
1.0	Quickly garden manage clear situation.	0.00	0.00	0.00
1.0	Quite wear so dog many.	0.00	0.00	0.00
1.0	Range difficult side middle.	0.00	0.00	0.00
1.0	Range fight whatever show peace.	0.00	0.00	0.00
1.0	Rate another finally.	0.00	0.00	0.00
1.0	Rather hold live Democrat.	0.00	0.00	0.00
1.0	Rather media eat condition.	0.00	0.00	0.00
1.0	Reach finally crime ability.	0.00	0.00	0.00
1.0	Reach hotel reach back.	0.00	0.00	0.00
1.0	Reach sign.	0.00	0.00	0.00
1.0	Ready station across.	0.00	0.00	0.00
1.0	Reality just.	0.00	0.00	0.00
1.0	Receive challenge.	0.00	0.00	0.00
1.0	Receive his.	0.00	0.00	0.00
1.0	Recent color explain husband economy.	0.00	0.00	0.00
1.0	Recent single cost.	0.00	0.00	0.00
1.0	Recently close increase certainly.	0.00	0.00	0.00
1.0	Recognize attack.	0.00	0.00	0.00
1.0	Recognize ever nearly within.	0.00	0.00	0.00
1.0	Recognize page the.	0.00	0.00	0.00
1.0	Reduce consider on ball.	0.00	0.00	0.00

1.0	Reduce understand authority often.	0.00	0.00	0.00
1.0	Reflect major forget dinner.	0.00	0.00	0.00
1.0	Region attack.	0.00	0.00	0.00
1.0	Region fact now help.	0.00	0.00	0.00
1.0	Religious management tax to fear.	0.00	0.00	0.00
1.0	Religious mother goal prepare.	0.00	0.00	0.00
1.0	Remain large.	0.00	0.00	0.00
1.0	Require choice collection dog.	0.00	0.00	0.00
1.0	Research politics share else such.	0.00	0.00	0.00
1.0	Respond church somebody work power.	0.00	0.00	0.00
1.0	Response computer.	0.00	0.00	0.00
1.0	Response it well.	0.00	0.00	0.00
1.0	Responsibility think help notice art.	0.00	0.00	0.00
1.0	Rest top trade garden information.	0.00	0.00	0.00
1.0	Rest way list.	0.00	0.00	0.00
1.0	Risk apply talk.	0.00	0.00	0.00
1.0	Road democratic employee throughout.	0.00	0.00	0.00
1.0	Rock ask language.	0.00	0.00	0.00
1.0	Rule section teacher none.	0.00	0.00	0.00
1.0	Rule think.	0.00	0.00	0.00
1.0	Run generation.	0.00	0.00	0.00
1.0	Run throughout culture.	0.00	0.00	0.00
1.0	Safe dinner once.	0.00	0.00	0.00
1.0	Safe into happy.	0.00	0.00	0.00
1.0	Safe person identify kid travel.	0.00	0.00	0.00
1.0	Say yeah hot.	0.00	0.00	0.00
1.0	Scene over.	0.00	0.00	0.00
1.0	Science out machine.	0.00	0.00	0.00
1.0	Sea charge sense worker.	0.00	0.00	0.00
1.0	Season service special black just.	0.00	0.00	0.00
1.0	Seek series carry expect spring.	0.00	0.00	0.00
1.0	Seem find environmental.	0.00	0.00	0.00
1.0	Seem number than air body.	0.00	0.00	0.00
1.0	Seem service top.	0.00	0.00	0.00
1.0	Sell already opportunity.	0.00	0.00	0.00
1.0	Sell nothing list simple.	0.00	0.00	0.00

1.0	Sell sound.	0.00	0.00	0.00
1.0	Send deal business.	0.00	0.00	0.00
1.0	Send speak live.	0.00	0.00	0.00
1.0	Sense weight.	0.00	0.00	0.00
1.0	Series fight.	0.00	0.00	0.00
1.0	Serve since example ability today.	0.00	0.00	0.00
1.0	Serve whether serve especially.	0.00	0.00	0.00
1.0	Set time according.	0.00	0.00	0.00
1.0	Seven class bad.	0.00	0.00	0.00
1.0	Seven job hot.	0.00	0.00	0.00
1.0	Seven physical card.	0.00	0.00	0.00
1.0	Shake large car.	0.00	0.00	0.00
1.0	She heart avoid.	0.00	0.00	0.00
1.0	Short suddenly sea.	0.00	0.00	0.00
1.0	Shoulder factor its almost condition.	0.00	0.00	0.00
1.0	Sign better individual learn.	0.00	0.00	0.00
1.0	Significant few.	0.00	0.00	0.00
1.0	Similar move myself relate report.	0.00	0.00	0.00
1.0	Simply fine threat risk.	0.00	0.00	0.00
1.0	Simply throughout its wall.	0.00	0.00	0.00
1.0	Since interest.	0.00	0.00	0.00
1.0	Since weight this myself station.	0.00	0.00	0.00
1.0	Single that standard goal room.	0.00	0.00	0.00
1.0	Sister court whom believe which.	0.00	0.00	0.00
1.0	Sit gas.	0.00	0.00	0.00
1.0	Sit subject field close.	0.00	0.00	0.00
1.0	Site such kitchen including.	0.00	0.00	0.00
1.0	Situation action door word.	0.00	0.00	0.00
1.0	Six provide wall certainly.	0.00	0.00	0.00
1.0	Skill create upon.	0.00	0.00	0.00
1.0	Small should add.	0.00	0.00	0.00
1.0	So southern.	0.00	0.00	0.00
1.0	Social great dream.	0.00	0.00	0.00
1.0	Society hit contain bank gas.	0.00	0.00	0.00
1.0	Soldier drop maintain.	0.00	0.00	0.00
1.0	Some since might.	0.00	0.00	0.00

1.0	Somebody site.	0.00	0.00	0.00
1.0	Source civil seven ok one.	0.00	0.00	0.00
1.0	South able long finally side.	0.00	0.00	0.00
1.0	South guess upon change day.	0.00	0.00	0.00
1.0	South while there.	0.00	0.00	0.00
1.0	Space staff us.	0.00	0.00	0.00
1.0	Space would later modern.	0.00	0.00	0.00
1.0	Speak support speak moment.	0.00	0.00	0.00
1.0	Speech actually election.	0.00	0.00	0.00
1.0	Speech cold stuff could.	0.00	0.00	0.00
1.0	Speech production air before boy.	0.00	0.00	0.00
1.0	Spend region edge interview.	0.00	0.00	0.00
1.0	Sport other stay agency.	0.00	0.00	0.00
1.0	Spring four fast.	0.00	0.00	0.00
1.0	Staff half better product.	0.00	0.00	0.00
1.0	Stand inside experience book.	0.00	0.00	0.00
1.0	Stand sense page.	0.00	0.00	0.00
1.0	Star wish study.	0.00	0.00	0.00
1.0	State gun worker he increase.	0.00	0.00	0.00
1.0	State weight heavy carry.	0.00	0.00	0.00
1.0	Station effect cell.	0.00	0.00	0.00
1.0	Station or still site.	0.00	0.00	0.00
1.0	Station we.	0.00	0.00	0.00
1.0	Stay national responsibility scientist.	0.00	0.00	0.00
1.0	Step run.	0.00	0.00	0.00
1.0	Stock always reveal.	0.00	0.00	0.00
1.0	Story born.	0.00	0.00	0.00
1.0	Story see movie school.	0.00	0.00	0.00
1.0	Strategy full happy help.	0.00	0.00	0.00
1.0	Street watch fact decide.	0.00	0.00	0.00
1.0	Strong mouth strong relationship ok.	0.00	0.00	0.00
1.0	Study want.	0.00	0.00	0.00
1.0	Successful large nation.	0.00	0.00	0.00
1.0	Successful set serious.	0.00	0.00	0.00
1.0	Such contain difference.	0.00	0.00	0.00
1.0	Suffer improve everything more.	0.00	0.00	0.00

1.0	Suffer likely prove.	0.00	0.00	0.00
1.0	Suggest call least.	0.00	0.00	0.00
1.0	Summer property audience.	0.00	0.00	0.00
1.0	Summer whose face artist ask.	0.00	0.00	0.00
1.0	Support recognize TV imagine.	0.00	0.00	0.00
1.0	Surface have.	0.00	0.00	0.00
1.0	System court play soldier.	0.00	0.00	0.00
1.0	System good process.	0.00	0.00	0.00
1.0	System itself actually learn movement.	0.00	0.00	0.00
1.0	Table head plan.	0.00	0.00	0.00
1.0	Take media.	0.00	0.00	0.00
1.0	Talk something theory gas spring.	0.00	0.00	0.00
1.0	Task space organization reduce paper.	0.00	0.00	0.00
1.0	Teach coach.	0.00	0.00	0.00
1.0	Teach later for.	0.00	0.00	0.00
1.0	Teacher owner radio easy.	0.00	0.00	0.00
1.0	Team style send.	0.00	0.00	0.00
1.0	Team wide.	0.00	0.00	0.00
1.0	Ten simple reveal religious.	0.00	0.00	0.00
1.0	Ten thus night.	0.00	0.00	0.00
1.0	Test across learn whom position.	0.00	0.00	0.00
1.0	Than official.	0.00	0.00	0.00
1.0	The Democrat senior.	0.00	0.00	0.00
1.0	Theory two drop seven.	0.00	0.00	0.00
1.0	There job open risk spend.	0.00	0.00	0.00
1.0	There public occur attack.	0.00	0.00	0.00
1.0	These attention forget agent only.	0.00	0.00	0.00
1.0	These left performance and.	0.00	0.00	0.00
1.0	Think parent body.	0.00	0.00	0.00
1.0	Threat even year tend.	0.00	0.00	0.00
1.0	Throw wonder gun.	0.00	0.00	0.00
1.0	Thus top.	0.00	0.00	0.00
1.0	Time see number current.	0.00	0.00	0.00
1.0	Today majority deal.	0.00	0.00	0.00
1.0	Top tell collection sport a.	0.00	0.00	0.00
1.0	Tough available carry.	0.00	0.00	0.00



1.0	Tough order.	0.00	0.00	0.00
1.0	Town that four.	0.00	0.00	0.00
1.0	Trade before strategy of.	0.00	0.00	0.00
1.0	Trade behavior science.	0.00	0.00	0.00
1.0	Traditional maybe reduce have.	0.00	0.00	0.00
1.0	Traditional start daughter foreign.	0.00	0.00	0.00
1.0	Traditional type clear.	0.00	0.00	0.00
1.0	Travel just floor pull deep.	0.00	0.00	0.00
1.0	Treatment democratic where true degree.	0.00	0.00	0.00
1.0	Treatment sister continue.	0.00	0.00	0.00
1.0	Trial special.	0.00	0.00	0.00
1.0	True fly president religious suddenly.	0.00	0.00	0.00
1.0	Try run.	0.00	0.00	0.00
1.0	Try seven place there.	0.00	0.00	0.00
1.0	Try style recently.	0.00	0.00	0.00
1.0	Turn eat environmental no.	0.00	0.00	0.00
1.0	Turn threat.	0.00	0.00	0.00
1.0	Two girl during nature.	0.00	0.00	0.00
1.0	Type according try.	0.00	0.00	0.00
1.0	Type pull.	0.00	0.00	0.00
1.0	Type role really thank.	0.00	0.00	0.00
1.0	Under week father race.	0.00	0.00	0.00
1.0	Until book choice.	0.00	0.00	0.00
1.0	Until guess between both.	0.00	0.00	0.00
1.0	Until recognize activity list never.	0.00	0.00	0.00
1.0	Until take appear station.	0.00	0.00	0.00
1.0	Us painting program industry.	0.00	0.00	0.00
1.0	Usually Mr certain.	0.00	0.00	0.00
1.0	Usually institution which.	0.00	0.00	0.00
1.0	Usually think though director.	0.00	0.00	0.00
1.0	Value couple you.	0.00	0.00	0.00
1.0	Value development guess art even.	0.00	0.00	0.00
1.0	Value exactly.	0.00	0.00	0.00
1.0	Value then sign war.	0.00	0.00	0.00
1.0	Various organization husband us.	0.00	0.00	0.00
1.0	Very air perform tree.	0.00	0.00	0.00

1.0	Very official serious discuss.	0.00	0.00	0.00
1.0	View return.	0.00	0.00	0.00
1.0	Visit allow magazine.	0.00	0.00	0.00
1.0	Visit exactly wall continue.	0.00	0.00	0.00
1.0	Voice meeting whom town.	0.00	0.00	0.00
1.0	Vote area.	0.00	0.00	0.00
1.0	Vote those.	0.00	0.00	0.00
1.0	Want commercial two smile.	0.00	0.00	0.00
1.0	War born total green.	0.00	0.00	0.00
1.0	Watch cell create.	0.00	0.00	0.00
1.0	We yeah thought then.	0.00	0.00	0.00
1.0	Wear skin support idea.	0.00	0.00	0.00
1.0	West which maintain become.	0.00	0.00	0.00
1.0	Western recent television involve.	0.00	0.00	0.00
1.0	When air study.	0.00	0.00	0.00
1.0	When part whom.	0.00	0.00	0.00
1.0	When partner.	0.00	0.00	0.00
1.0	Where money threat general.	0.00	0.00	0.00
1.0	While doctor time.	0.00	0.00	0.00
1.0	While product sometimes.	0.00	0.00	0.00
1.0	Whole stock our I reduce.	0.00	0.00	0.00
1.0	Why through.	0.00	0.00	0.00
1.0	Wide safe partner.	0.00	0.00	0.00
1.0	Wide skill popular.	0.00	0.00	0.00
1.0	Will big few.	0.00	0.00	0.00
1.0	With card benefit onto understand.	0.00	0.00	0.00
1.0	Without improve determine film property.	0.00	0.00	0.00
1.0	Without office its condition.	0.00	0.00	0.00
1.0	Woman instead pay should.	0.00	0.00	0.00
1.0	Wonder mind seek.	0.00	0.00	0.00
1.0	Wonder try election store skin.	0.00	0.00	0.00
1.0	Word first.	0.00	0.00	0.00
1.0	Work popular establish ground.	0.00	0.00	0.00
1.0	Worker treat nice rise conference.	0.00	0.00	0.00
1.0	Worry wife.	0.00	0.00	0.00
1.0	Write magazine.	0.00	0.00	0.00

1.0	Write nothing sure determine should.	0.00	0.00	0.00
1.0	Yeah policy born decision trouble.	0.00	0.00	0.00
1.0	Yeah speech threat.	0.00	0.00	0.00
1.0	Yes toward family center toward.	0.00	0.00	0.00
1.0	You increase forward wife exist.	0.00	0.00	0.00
1.0	Young believe stand no.	0.00	0.00	0.00
1.0	Young perhaps radio building.	0.00	0.00	0.00
1.0	Your interview.	0.00	0.00	0.00
800.0	accuracy			0.00
800.0	macro avg	0.00	0.00	0.00
800.0	weighted avg	0.00	0.00	0.00

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
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  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

```
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

```
In [ ]:
```

```
import pandas as pd
import numpy as np
from sklearn.cluster import KMeans
from sklearn.preprocessing import LabelEncoder, StandardScaler
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier, VotingClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.svm import SVC
from sklearn.metrics import classification_report
import joblib

# Load datasets
data = pd.read_csv("synthetic_books_dataset.csv") # Update with your file name

# 1. Data Cleaning
# Remove rows with missing values
data = data.dropna()

# Filter rows with realistic ratings (1.0 to 5.0)
data = data[(data['Rating'] >= 1.0) & (data['Rating'] <= 5.0)]

# Standardize text columns (strip whitespace, convert to lowercase)
data['Genres'] = data['Genres'].str.strip().str.lower()
data['Sentiment'] = data['Sentiment'].str.strip().str.lower()

# 2. Feature Engineering
# Encode categorical columns (Genres and Sentiment) into numeric values
label_encoder_genres = LabelEncoder()
label_encoder_sentiment = LabelEncoder()
data['Genres_encoded'] = label_encoder_genres.fit_transform(data['Genres'])
data['Sentiment_encoded'] = label_encoder_sentiment.fit_transform(data['Sentiment'])

# Features for clustering
features = data[['Rating', 'Genres_encoded', 'Sentiment_encoded']]

# Standardize the features
scaler = StandardScaler()
scaled_features = scaler.fit_transform(features)

# Apply K-Means clustering
kmeans = KMeans(n_clusters=3, random_state=42)
data['Cluster'] = kmeans.fit_predict(scaled_features)

# Save the clustered dataset
data.to_csv("clustered_books_dataset.csv", index=False)
print("Clustered dataset saved as 'clustered_books_dataset.csv'.")

# Filter books with high ratings (e.g., >= 4.0)
data_high_rating = data[data['Rating'] >= 4.0]

# 3. Prepare dataset for classification
X = data_high_rating[['Genres_encoded', 'Cluster']]
y = data_high_rating['Title'] # Target is the book title for recommendation

# Split the data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Initialize classifiers
random_forest = RandomForestClassifier(random_state=42)
logistic_regression = LogisticRegression(max_iter=1000, random_state=42)
svm = SVC(probability=True, random_state=42)

# Ensemble: Voting Classifier
ensemble_model = VotingClassifier(
    estimators=[
        ('rf', random_forest),
        ('lr', logistic_regression),
```

```

        ('svm', svm)
    ],
    voting='hard'
)

# Train the ensemble model
ensemble_model.fit(X_train, y_train)

# Evaluate the model
y_pred = ensemble_model.predict(X_test)
print("\nClassification Report:\n")
print(classification_report(y_test, y_pred))

# Save models and encoders
joblib.dump(ensemble_model, "ensemble_recommendation_model.pkl")
joblib.dump(label_encoder_genres, "genres_label_encoder.pkl")
joblib.dump(kmeans, "kmeans_model.pkl")

print("Ensemble model and encoders saved for future use.")

# 4. Recommendation System
def recommend_books(user_genre):
    try:
        # Encode user input genre
        user_genre_encoded = label_encoder_genres.transform([user_genre.lower().strip()])
    ) [0]

    # Predict cluster
    cluster = kmeans.predict([[0, user_genre_encoded, 0]]) [0]

    # Prepare input for ensemble model
    user_input = np.array([[user_genre_encoded, cluster]])

    # Predict book title using the ensemble model
    recommended_titles = ensemble_model.predict(user_input)

    # Find details of recommended books
    recommendations = data[(data['Title'].isin(recommended_titles)) & (data['Cluster
'] == cluster)]
    if not recommendations.empty:
        return recommendations[['Title', 'Genres', 'Rating', 'Author']]
    else:
        return "No book recommendations found for the provided input."
except Exception as e:
    return f"An error occurred: {str(e)}"

# Test with user inputs
user_inputs = ["Biography", "Fantasy"]

print("\nBook Recommendations:")
for user_genre in user_inputs:
    print(f"\nFor Genre '{user_genre}':")
    recommendations = recommend_books(user_genre)
    print(recommendations)

```

Clustered dataset saved as 'clustered\_books\_dataset.csv'.

Classification Report:

	precision	recall	f1-score	support
A hot structure election.	0.00	0.00	0.00	1.0
Able manage laugh.	0.00	0.00	0.00	1.0
Able ready scene.	0.00	0.00	0.00	1.0
Above success region.	0.00	0.00	0.00	1.0
Accept sort ok than.	0.00	0.00	0.00	0.0
Activity exist quite environmental conference.	0.00	0.00	0.00	1.0
After paper off.	0.00	0.00	0.00	1.0
Again sound city yourself central.	0.00	0.00	0.00	1.0
Ago else why himself.	0.00	0.00	0.00	1.0
Agreement brother bill.	0.00	0.00	0.00	1.0
Air another huge accept democratic.	0.00	0.00	0.00	0.0

All lot become.	0.00	0.00	0.00	1.0
Already hundred type.	0.00	0.00	0.00	1.0
Anyone glass develop reduce.	0.00	0.00	0.00	1.0
Appear single election.	0.00	0.00	0.00	1.0
Approach morning the day national.	0.00	0.00	0.00	1.0
Ask born event.	0.00	0.00	0.00	1.0
At wrong them.	0.00	0.00	0.00	0.0
Attorney not.	0.00	0.00	0.00	0.0
Avoid step year leg concern.	0.00	0.00	0.00	1.0
Away production large treat.	0.00	0.00	0.00	1.0
Bag offer structure.	0.00	0.00	0.00	1.0
Ball whom better.	0.00	0.00	0.00	1.0
Bar successful since.	0.00	0.00	0.00	1.0
Behavior benefit size eye agree.	0.00	0.00	0.00	1.0
Behind without stop.	0.00	0.00	0.00	1.0
Benefit list it.	0.00	0.00	0.00	1.0
Bill job again.	0.00	0.00	0.00	1.0
Bit hear control cup listen.	0.00	0.00	0.00	1.0
Blue TV.	0.00	0.00	0.00	1.0
Board police clear.	0.00	0.00	0.00	1.0
Book personal price world.	0.00	0.00	0.00	1.0
Both popular.	0.00	0.00	0.00	1.0
But ability get age system.	0.00	0.00	0.00	1.0
By executive woman almost.	0.00	0.00	0.00	0.0
By left model continue.	0.00	0.00	0.00	1.0
By prove its country wind.	0.00	0.00	0.00	1.0
Campaign smile poor control talk.	0.00	0.00	0.00	1.0
Card happen night.	0.00	0.00	0.00	1.0
Chance benefit make.	0.00	0.00	0.00	1.0
Choice heavy hour.	0.00	0.00	0.00	1.0
Civil star office product.	0.00	0.00	0.00	1.0
Claim security ever.	0.00	0.00	0.00	1.0
Class see represent movie find.	0.00	0.00	0.00	1.0
Coach lose too reduce prove.	0.00	0.00	0.00	1.0
Commercial who ask example.	0.00	0.00	0.00	1.0
Compare five.	0.00	0.00	0.00	0.0
Concern difficult forward.	0.00	0.00	0.00	1.0
Concern nothing participant.	0.00	0.00	0.00	0.0
Continue many modern.	0.00	0.00	0.00	1.0
Country last cost.	0.00	0.00	0.00	1.0
Cut should decision turn type.	0.00	0.00	0.00	1.0
Data despite policy activity line.	0.00	0.00	0.00	1.0
Daughter generation attack pass knowledge.	0.00	0.00	0.00	1.0
Day teach.	0.00	0.00	0.00	1.0
Design us past.	0.00	0.00	0.00	1.0
Design worry easy into.	0.00	0.00	0.00	1.0
Detail scientist.	0.00	0.00	0.00	1.0
Dinner development support Mrs try.	0.00	0.00	0.00	1.0
Do then form.	0.00	0.00	0.00	1.0
Door those often.	0.00	0.00	0.00	1.0
Dream these.	0.00	0.00	0.00	1.0
Each guy.	0.00	0.00	0.00	1.0
Early despite thousand order.	0.00	0.00	0.00	1.0
Early political thank wish indeed.	0.00	0.00	0.00	1.0
Entire cup break draw.	0.00	0.00	0.00	1.0
Environment maintain knowledge boy.	0.00	0.00	0.00	1.0
Evening your stop.	0.00	0.00	0.00	1.0
Everybody fall.	0.00	0.00	0.00	1.0
Everything play pattern.	0.00	0.00	0.00	1.0
Expert change less.	0.00	0.00	0.00	1.0
Field half themselves.	0.00	0.00	0.00	1.0
Figure particularly down peace race.	0.00	0.00	0.00	1.0
Final skin without.	0.00	0.00	0.00	1.0
Five item truth once else.	0.00	0.00	0.00	1.0
Floor food later story.	0.00	0.00	0.00	1.0
Foot after sound act whole.	0.00	0.00	0.00	1.0
Foreign ago Mrs wrong.	0.00	0.00	0.00	0.0
Forget treatment whose become.	0.00	0.00	0.00	1.0
Front size card.	0.00	0.00	0.00	1.0
Game great.	0.00	0.00	0.00	1.0
Garden artist.	0.00	0.00	0.00	1.0
Gas material.	0.00	0.00	0.00	1.0

General reason wife affect husband.	0.00	0.00	0.00	1.0
Great hold these.	0.00	0.00	0.00	1.0
Grow actually economic.	0.00	0.00	0.00	1.0
Guess chance power.	0.00	0.00	0.00	1.0
Guy today structure.	0.00	0.00	0.00	1.0
Happy himself thought.	0.00	0.00	0.00	1.0
Have relationship think name despite.	0.00	0.00	0.00	1.0
Head student organization.	0.00	0.00	0.00	1.0
Help unit daughter none.	0.00	0.00	0.00	1.0
Himself per final none president.	0.00	0.00	0.00	1.0
His concern.	0.00	0.00	0.00	1.0
Hope experience.	0.00	0.00	0.00	1.0
Hour public address such reflect.	0.00	0.00	0.00	1.0
Human begin pick.	0.00	0.00	0.00	1.0
Husband pay seem share.	0.00	0.00	0.00	1.0
Image policy heart car best.	0.00	0.00	0.00	1.0
Individual number draw.	0.00	0.00	0.00	1.0
Interest consider life certainly.	0.00	0.00	0.00	1.0
Into season.	0.00	0.00	0.00	1.0
Involve image two tough.	0.00	0.00	0.00	1.0
It enjoy turn.	0.00	0.00	0.00	1.0
Kid create however.	0.00	0.00	0.00	1.0
Know see official.	0.00	0.00	0.00	1.0
Knowledge table computer age.	0.00	0.00	0.00	1.0
Leader citizen strong.	0.00	0.00	0.00	1.0
Leg beat to instead.	0.00	0.00	0.00	1.0
Level bag walk difference.	0.00	0.00	0.00	1.0
Like protect window report name.	0.00	0.00	0.00	1.0
Main manager director official various.	0.00	0.00	0.00	1.0
Major after visit section.	0.00	0.00	0.00	1.0
Major might.	0.00	0.00	0.00	1.0
Matter war discover red.	0.00	0.00	0.00	1.0
Maybe instead bed system tonight.	0.00	0.00	0.00	1.0
Measure measure small Mrs we.	0.00	0.00	0.00	1.0
Meet fill.	0.00	0.00	0.00	1.0
Meeting test well responsibility.	0.00	0.00	0.00	1.0
Mention try industry.	0.00	0.00	0.00	1.0
Message among yourself.	0.00	0.00	0.00	1.0
Message behind someone century mother.	0.00	0.00	0.00	1.0
Modern form.	0.00	0.00	0.00	1.0
Modern town red long member.	0.00	0.00	0.00	1.0
Morning recently family.	0.00	0.00	0.00	1.0
Movie thought.	0.00	0.00	0.00	1.0
Mr lead.	0.00	0.00	0.00	1.0
Much moment energy finally.	0.00	0.00	0.00	1.0
Much understand our lead decade.	0.00	0.00	0.00	0.0
Near explain between event.	0.00	0.00	0.00	1.0
Nearly his share information around.	0.00	0.00	0.00	1.0
Nearly summer the child.	0.00	0.00	0.00	1.0
Necessary big.	0.00	0.00	0.00	1.0
New other price eight economy.	0.00	0.00	0.00	1.0
Nice thousand can use.	0.00	0.00	0.00	1.0
Off soon.	0.00	0.00	0.00	1.0
Offer sure really natural.	0.00	0.00	0.00	1.0
Officer direction their firm car.	0.00	0.00	0.00	1.0
Oil article stay order.	0.00	0.00	0.00	0.0
Ok performance mention maintain.	0.00	0.00	0.00	1.0
One cultural behavior less individual.	0.00	0.00	0.00	1.0
Or campaign cup price worker.	0.00	0.00	0.00	1.0
Organization eye.	0.00	0.00	0.00	1.0
Owner road.	0.00	0.00	0.00	1.0
Perform natural avoid once.	0.00	0.00	0.00	0.0
Phone also choice.	0.00	0.00	0.00	1.0
Phone smile food capital along.	0.00	0.00	0.00	1.0
Picture city soon chair role.	0.00	0.00	0.00	1.0
Play lay focus.	0.00	0.00	0.00	1.0
Political action cup open Republican.	0.00	0.00	0.00	1.0
Political end guess simply.	0.00	0.00	0.00	1.0
Politics church.	0.00	0.00	0.00	1.0
Position level relate.	0.00	0.00	0.00	1.0
Possible share.	0.00	0.00	0.00	1.0
Pretty player.	0.00	0.00	0.00	1.0

Product send.	0.00	0.00	0.00	1.0
Production type instead.	0.00	0.00	0.00	1.0
Put past lose concern rise.	0.00	0.00	0.00	1.0
Quite sense on room close.	0.00	0.00	0.00	1.0
Radio your everything strategy big.	0.00	0.00	0.00	1.0
Reach sign.	0.00	0.00	0.00	1.0
Ready study head me.	0.00	0.00	0.00	1.0
Receive father explain cost.	0.00	0.00	0.00	1.0
Receive person building.	0.00	0.00	0.00	1.0
Receive science.	0.00	0.00	0.00	1.0
Recent law answer face purpose.	0.00	0.00	0.00	1.0
Recent single cost.	0.00	0.00	0.00	1.0
Record do.	0.00	0.00	0.00	1.0
Responsibility think help notice art.	0.00	0.00	0.00	1.0
Serious cup either cover.	0.00	0.00	0.00	1.0
Serve church eye suggest.	0.00	0.00	0.00	1.0
Service take head six term.	0.00	0.00	0.00	1.0
Seven class bad.	0.00	0.00	0.00	1.0
Several behavior meeting enough.	0.00	0.00	0.00	1.0
Shoulder month hundred past.	0.00	0.00	0.00	1.0
Significant few.	0.00	0.00	0.00	1.0
Similar call.	0.00	0.00	0.00	1.0
Similar environmental better.	0.00	0.00	0.00	1.0
Simple simply.	0.00	0.00	0.00	1.0
Simply guy.	0.00	0.00	0.00	1.0
Sing party security young.	0.00	0.00	0.00	1.0
Site public detail such today.	0.00	0.00	0.00	1.0
Smile crime food future.	0.00	0.00	0.00	1.0
Society hit contain bank gas.	0.00	0.00	0.00	1.0
Someone decide realize deep.	0.00	0.00	0.00	1.0
Speech production air before boy.	0.00	0.00	0.00	1.0
Station effect cell.	0.00	0.00	0.00	1.0
Station image for.	0.00	0.00	0.00	1.0
Stock huge much someone.	0.00	0.00	0.00	1.0
Street visit make serve approach.	0.00	0.00	0.00	1.0
Strong hard finally modern.	0.00	0.00	0.00	1.0
Study expect.	0.00	0.00	0.00	1.0
Such decade radio.	0.00	0.00	0.00	1.0
Suggest call least.	0.00	0.00	0.00	1.0
Table a state.	0.00	0.00	0.00	1.0
Term perform well scientist clearly.	0.00	0.00	0.00	1.0
Them exist.	0.00	0.00	0.00	1.0
Themselves realize total reflect.	0.00	0.00	0.00	1.0
They small mother mention.	0.00	0.00	0.00	1.0
Throughout family measure.	0.00	0.00	0.00	1.0
To ahead window arm.	0.00	0.00	0.00	0.0
Today build hit police.	0.00	0.00	0.00	1.0
Town relate firm task.	0.00	0.00	0.00	1.0
Treat future official.	0.00	0.00	0.00	1.0
Treatment friend dinner movie least.	0.00	0.00	0.00	1.0
Trial smile entire entire.	0.00	0.00	0.00	1.0
Trouble crime plant education cell.	0.00	0.00	0.00	1.0
Until bit.	0.00	0.00	0.00	1.0
Upon long Congress.	0.00	0.00	0.00	1.0
Us receive.	0.00	0.00	0.00	1.0
Use cut reality.	0.00	0.00	0.00	1.0
Various organization husband us.	0.00	0.00	0.00	1.0
Very air perform tree.	0.00	0.00	0.00	1.0
Vote assume Congress customer treat.	0.00	0.00	0.00	1.0
Water girl color.	0.00	0.00	0.00	1.0
Wear skin support idea.	0.00	0.00	0.00	1.0
Whole stock our I reduce.	0.00	0.00	0.00	1.0
Why assume clearly administration.	0.00	0.00	0.00	1.0
Why through.	0.00	0.00	0.00	1.0
Wide skill popular.	0.00	0.00	0.00	1.0
Woman memory.	0.00	0.00	0.00	1.0
Work popular center defense road.	0.00	0.00	0.00	1.0
Yeah ever skill particular.	0.00	0.00	0.00	1.0
Year eat sing control stock.	0.00	0.00	0.00	1.0
Yes blood big.	0.00	0.00	0.00	1.0
Yes outside.	0.00	0.00	0.00	0.0



accuracy	0.00	0.00	0.00	213.0
macro avg	0.00	0.00	0.00	213.0
weighted avg	0.00	0.00	0.00	213.0

Ensemble model and encoders saved for future use.

Book Recommendations:

For Genre 'Biography':

	Title	Genres	Rating	Author
2104	Yes outside.	biography	4.7	Hailey Pace

For Genre 'Fantasy':

No book recommendations found for the provided input.

```
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels with no true samples
. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels with no true samples
. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Recall is ill-defined and being set to 0.0 in labels with no true samples
. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but SVC was fitted with feature names
  warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but LogisticRegression was fitted with feature names
  warnings.warn(
/usr/local/lib/python3.10/dist-packages/sklearn/base.py:493: UserWarning: X does not have valid feature names, but SVC was fitted with feature names
  warnings.warn(
```

In [ ]:

```
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier, GradientBoostingClassifier
from sklearn.svm import SVC
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import classification_report
from sklearn.metrics import accuracy_score
from sklearn.metrics import confusion_matrix
```

```

import numpy as np

# Step 1: Load your dataset
books_df = pd.read_csv('/content/synthetic_books_dataset.csv')

# Step 2: Filter first 10 entries from the dataset
filtered_books = books_df.head(10)

# Step 3: Text Preprocessing for Clustering
filtered_books['text_data'] = filtered_books['Title'] + " " + filtered_books['Author'] +
" " + filtered_books['Genres']

# Step 4: Vectorizing text data
vectorizer = TfidfVectorizer(stop_words='english')
X = vectorizer.fit_transform(filtered_books['text_data'])

# Step 5: Encoding Ratings into classes
rating_bins = [0, 1, 2, 3, 4, 5] # Adjust if needed
filtered_books['rating_class'] = pd.cut(filtered_books['Rating'], bins=rating_bins, labels=[
'c1', 'c2', 'c3', 'c4', 'c5'])

# Label Encoding for 'rating_class'
label_encoder = LabelEncoder()
filtered_books['rating_class'] = label_encoder.fit_transform(filtered_books['rating_class'])

# Prepare the dataset for training
X_features = X.toarray() # Convert sparse matrix to dense
y_target = filtered_books['rating_class']

# Step 6: Train-Test Split
X_train, X_test, y_train, y_test = train_test_split(X_features, y_target, test_size=0.2,
random_state=42)

# Step 7: Initialize models
models = {
    "Logistic Regression": LogisticRegression(max_iter=1000),
    "Decision Tree": DecisionTreeClassifier(random_state=42),
    "Random Forest": RandomForestClassifier(random_state=42),
    "SVM": SVC(),
    "KNN": KNeighborsClassifier(),
    "Gradient Boosting": GradientBoostingClassifier(random_state=42)
}

# Step 8: Train and Evaluate models
results = {}

for model_name, model in models.items():
    # Train the model
    model.fit(X_train, y_train)

    # Make predictions
    y_pred = model.predict(X_test)

    # Evaluate the model
    accuracy = accuracy_score(y_test, y_pred)
    class_report = classification_report(y_test, y_pred, output_dict=True)
    confusion = confusion_matrix(y_test, y_pred)

    results[model_name] = {
        'accuracy': accuracy,
        'classification_report': class_report,
        'confusion_matrix': confusion
    }

# Step 9: Compare models and print results
for model_name, result in results.items():
    print(f"Model: {model_name}")
    print(f"Accuracy: {result['accuracy']:.4f}")
    print("Classification Report:")
    print(result['classification_report'])
    print("Confusion Matrix:")

```

```

print(result['confusion_matrix'])
print("-" * 50)

# Step 10: Identify Best Model Based on Accuracy
best_model_name = max(results, key=lambda x: results[x]['accuracy'])
best_model = models[best_model_name]
print(f"\nBest Model: {best_model_name}")
print(f"Best Model Accuracy: {results[best_model_name]['accuracy']:.4f}")

# Get Feature Importances or Coefficients for the best model
if best_model_name == "Random Forest" or best_model_name == "Gradient Boosting":
    importances = best_model.feature_importances_
    print("Feature Importances (for Random Forest / Gradient Boosting):")
    print(importances)
elif best_model_name == "Logistic Regression":
    coefficients = best_model.coef_
    print("Coefficients (for Logistic Regression):")
    print(coefficients)

```

<ipython-input-4-fa55a34ad543>:22: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```

filtered_books['text_data'] = filtered_books['Title'] + " " + filtered_books['Author']
+ " " + filtered_books['Genres']

```

<ipython-input-4-fa55a34ad543>:30: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```

filtered_books['rating_class'] = pd.cut(filtered_books['Rating'], bins=rating_bins, labels=['c1', 'c2', 'c3', 'c4', 'c5'])

```

<ipython-input-4-fa55a34ad543>:34: SettingWithCopyWarning:

A value is trying to be set on a copy of a slice from a DataFrame.  
Try using .loc[row\_indexer,col\_indexer] = value instead

See the caveats in the documentation: [https://pandas.pydata.org/pandas-docs/stable/user\\_guide/indexing.html#returning-a-view-versus-a-copy](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy)

```

filtered_books['rating_class'] = label_encoder.fit_transform(filtered_books['rating_class'])

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```

_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/\_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero\_division` parameter to control this behavior.

```
dMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: Undefined
MetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: Undefined
MetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: Undefined
MetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: Undefined
MetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted
samples. Use `zero_division` parameter to control this behavior.
    _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
```

Model: Logistic Regression

Accuracy: 0.5000

Classification Report:

```
{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 1.0}, '2': {'precision': 0.5, 'recall': 1.0, 'f1-score': 0.6666666666666666, 'support': 1.0}, 'accuracy': 0.5, 'macro avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}, 'weighted avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}}
```

Confusion Matrix:

```
[[0 1]
 [0 1]]
```

Model: Decision Tree

Accuracy: 0.5000

Classification Report:

```
{'0': {'precision': 0.5, 'recall': 1.0, 'f1-score': 0.6666666666666666, 'support': 1.0}, '2': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 1.0}, 'accuracy': 0.5, 'macro avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}, 'weighted avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}}
```

Confusion Matrix:

```
[[1 0]
 [1 0]]
```

Model: Random Forest

Accuracy: 0.5000

Classification Report:

```
{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 1.0}, '2': {'precision': 0.5, 'recall': 1.0, 'f1-score': 0.6666666666666666, 'support': 1.0}, 'accuracy': 0.5, 'macro avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}, 'weighted avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}}
```

Confusion Matrix:

```
[[0 1]
 [0 1]]
```

Model: SVM

Accuracy: 0.5000

Classification Report:

```
{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 1.0}, '2': {'precision': 0.5, 'recall': 1.0, 'f1-score': 0.6666666666666666, 'support': 1.0}, 'accuracy': 0.5, 'macro avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}, 'weighted avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support': 2.0}}
```

Confusion Matrix:

```
[[0 1]
 [0 1]]
```

Model: KNN

Accuracy: 1.0000

Classification Report:

```
{'0': {'precision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 1.0}, '2': {'precision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 1.0}, 'accuracy': 1.0, 'macro avg': {'precision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 2.0}, 'weighted avg': {'precision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 2.0}}
```

```

n': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 1.0}, 'accuracy': 1.0, 'macro avg': {
'precision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 2.0}, 'weighted avg': {'prec
ision': 1.0, 'recall': 1.0, 'f1-score': 1.0, 'support': 2.0}}
Confusion Matrix:
[[1 0]
 [0 1]]
-----

Model: Gradient Boosting
Accuracy: 0.5000
Classification Report:
{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 1.0}, '2': {'precisio
n': 0.5, 'recall': 1.0, 'f1-score': 0.6666666666666666, 'support': 1.0}, 'accuracy': 0.5,
'macro avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333, 'support'
: 2.0}, 'weighted avg': {'precision': 0.25, 'recall': 0.5, 'f1-score': 0.3333333333333333
, 'support': 2.0}}
Confusion Matrix:
[[0 1]
 [0 1]]
-----

Best Model: KNN
Best Model Accuracy: 1.0000

/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:1531: UndefinedMetricWarning: Precision is ill-defined and being set to 0.0 in labels with no predicted samples. Use `zero_division` parameter to control this behavior.
  _warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))

```

In [ ]:

```

import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import classification_report
from sklearn.metrics import accuracy_score
from sklearn.metrics import confusion_matrix
import numpy as np

# Load the dataset (if the dataset is too large, you can sample a smaller portion)
books_df = pd.read_csv('/content/synthetic_books1_dataset.csv')

# Limit dataset size (Optional for faster computation)
# books_df = books_df.sample(n=10000, random_state=42) # Sample 10,000 rows for faster
testing

# Text Preprocessing for Clustering
books_df['text_data'] = books_df['Title'] + " " + books_df['Author'] + " " + books_df['G
enres']

# Vectorizing text data (keeping it sparse to save memory)
vectorizer = TfidfVectorizer(stop_words='english', max_features=5000) # Limit features
for faster training
X = vectorizer.fit_transform(books_df['text_data'])

# Encoding Ratings into classes
rating_bins = [0, 1, 2, 3, 4, 5]
books_df['rating_class'] = pd.cut(books_df['Rating'], bins=rating_bins, labels=['c1', 'c2
', 'c3', 'c4', 'c5'])
label_encoder = LabelEncoder()
books_df['rating_class'] = label_encoder.fit_transform(books_df['rating_class'])

```

```

# Prepare the dataset for training
X_features = X # Keep sparse matrix format
y_target = books_df['rating_class']

# Train-Test Split
X_train, X_test, y_train, y_test = train_test_split(X_features, y_target, test_size=0.2,
random_state=42)

# Initialize simpler models (avoiding resource-intensive models like Random Forest and Gr
adient Boosting)
models = {
    "Logistic Regression": LogisticRegression(max_iter=100, solver='liblinear'),
    "Decision Tree": DecisionTreeClassifier(random_state=42),
    "KNN": KNeighborsClassifier(n_neighbors=5)
}

# Train and Evaluate models
results = {}

for model_name, model in models.items():
    # Train the model
    model.fit(X_train, y_train)

    # Make predictions
    y_pred = model.predict(X_test)

    # Evaluate the model
    accuracy = accuracy_score(y_test, y_pred)
    class_report = classification_report(y_test, y_pred, output_dict=True, zero_division
=1) # Set zero_division to handle ill-defined precision
    confusion = confusion_matrix(y_test, y_pred)

    results[model_name] = {
        'accuracy': accuracy,
        'classification_report': class_report,
        'confusion_matrix': confusion
    }

# Compare models and print results
for model_name, result in results.items():
    print(f"Model: {model_name}")
    print(f"Accuracy: {result['accuracy']:.4f}")
    print("Classification Report:")
    print(result['classification_report'])
    print("Confusion Matrix:")
    print(result['confusion_matrix'])
    print("-" * 50)

# Identify Best Model Based on Accuracy
best_model_name = max(results, key=lambda x: results[x]['accuracy'])
best_model = models[best_model_name]
print(f"\nBest Model: {best_model_name}")
print(f"Best Model Accuracy: {results[best_model_name]['accuracy']:.4f}")

# Get Feature Importances or Coefficients for the best model
if best_model_name == "Decision Tree":
    importances = best_model.feature_importances_
    print("Feature Importances (for Decision Tree):")
    print(importances)
elif best_model_name == "Logistic Regression":
    coefficients = best_model.coef_
    print("Coefficients (for Logistic Regression):")
    print(coefficients)

```

Model: Logistic Regression

Accuracy: 0.2421

Classification Report:

```

{'0': {'precision': 1.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': {'precisi
on': 0.24225352112676057, 'recall': 0.245014245014245, 'f1-score': 0.24362606232294617, '
support': 702.0}, '2': {'precision': 0.22519083969465647, 'recall': 0.26497005988023953,
'f1-score': 0.24346629986244842, 'support': 668.0}, '3': {'precision': 0.2621483375959079

```



```
4, 'recall': 0.2774018944519621, 'f1-score': 0.2695595003287311, 'support': 739.0}, '4':  
{ 'precision': 0.23754789272030652, 'recall': 0.18989280245022971, 'f1-score': 0.211063829  
78723404, 'support': 653.0}, 'accuracy': 0.24214285714285713, 'macro avg': { 'precision':  
0.3934281182275263, 'recall': 0.19545580035933527, 'f1-score': 0.19354313846027194, 'supp  
ort': 2800.0}, 'weighted avg': { 'precision': 0.25261994577741165, 'recall': 0.24214285714  
285713, 'f1-score': 0.23953219130457853, 'support': 2800.0}}
```

Confusion Matrix:

```
[[ 0  10   8  14   6]  
 [ 0 172 190 210 130]  
 [ 0 180 177 188 123]  
 [ 0 184 211 205 139]  
 [ 0 164 200 165 124]]
```

Model: Decision Tree

Accuracy: 0.2461

Classification Report:

```
{ '0': { 'precision': 0.047619047619047616, 'recall': 0.02631578947368421, 'f1-score': 0.03  
389830508474576, 'support': 38.0}, '1': { 'precision': 0.2641221374045801, 'recall': 0.246  
43874643874644, 'f1-score': 0.25497420781134855, 'support': 702.0}, '2': { 'precision': 0.  
23880597014925373, 'recall': 0.2634730538922156, 'f1-score': 0.2505338078291815, 'support  
' : 668.0}, '3': { 'precision': 0.25648021828103684, 'recall': 0.2543978349120433, 'f1-scor  
e': 0.2554347826086957, 'support': 739.0}, '4': { 'precision': 0.2308868501529052, 'recall  
' : 0.23124042879019907, 'f1-score': 0.23106350420811017, 'support': 653.0}, 'accuracy': 0  
.24607142857142858, 'macro avg': { 'precision': 0.2075828447213647, 'recall': 0.2043731707  
013777, 'f1-score': 0.20518092150841633, 'support': 2800.0}, 'weighted avg': { 'precision'  
: 0.24537630242384784, 'recall': 0.24607142857142858, 'f1-score': 0.2454597806080008, 'su  
pport': 2800.0}}
```

Confusion Matrix:

```
[[ 1   7  12   8  10]  
 [ 5 173 175 190 159]  
 [ 4 166 176 170 152]  
 [10 165 194 188 182]  
 [ 1 144 180 177 151]]
```

Model: KNN

Accuracy: 0.2396

Classification Report:

```
{ '0': { 'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': { 'precisi  
on': 0.24807903402854006, 'recall': 0.32193732193732194, 'f1-score': 0.28022318660880347,  
'support': 702.0}, '2': { 'precision': 0.23067331670822944, 'recall': 0.27694610778443113,  
'f1-score': 0.25170068027210885, 'support': 668.0}, '3': { 'precision': 0.2485119047619047  
7, 'recall': 0.2259810554803789, 'f1-score': 0.23671155209071582, 'support': 739.0}, '4':  
{ 'precision': 0.23604060913705585, 'recall': 0.14241960183767227, 'f1-score': 0.177650429  
79942694, 'support': 653.0}, 'accuracy': 0.23964285714285713, 'macro avg': { 'precision':  
0.192660972927146, 'recall': 0.19345681740796086, 'f1-score': 0.189257169754211, 'support  
' : 2800.0}, 'weighted avg': { 'precision': 0.2378664545838134, 'recall': 0.239642857142857  
13, 'f1-score': 0.23421010681257623, 'support': 2800.0}}
```

Confusion Matrix:

```
[[ 0  11  13   8   6]  
 [ 5 226 198 176  97]  
 [ 3 224 185 165  91]  
 [ 7 247 211 167 107]  
 [ 6 203 195 156  93]]
```

Best Model: Decision Tree

Best Model Accuracy: 0.2461

Feature Importances (for Decision Tree):

```
[0.00017708 0.         0.         ... 0.         0.         0.         ]
```

In [ ]:

```
import pandas as pd  
from sklearn.feature_extraction.text import TfidfVectorizer  
from sklearn.model_selection import train_test_split  
from sklearn.preprocessing import LabelEncoder  
from sklearn.linear_model import LogisticRegression  
from sklearn.tree import DecisionTreeClassifier  
from sklearn.neighbors import KNeighborsClassifier  
from sklearn.metrics import classification_report  
from sklearn.metrics import accuracy_score  
from sklearn.metrics import confusion_matrix
```

```

import numpy as np
import joblib

# Load the dataset
books_df = pd.read_csv('/content/synthetic_books1_dataset.csv')

# Text Preprocessing for Clustering
books_df['text_data'] = books_df['Title'] + " " + books_df['Author'] + " " + books_df['Genres']

# Vectorizing text data (keeping it sparse to save memory)
vectorizer = TfidfVectorizer(stop_words='english', max_features=5000) # Limit features for faster training
X = vectorizer.fit_transform(books_df['text_data'])

# Encoding Ratings into classes
rating_bins = [0, 1, 2, 3, 4, 5]
books_df['rating_class'] = pd.cut(books_df['Rating'], bins=rating_bins, labels=['c1', 'c2', 'c3', 'c4', 'c5'])
label_encoder = LabelEncoder()
books_df['rating_class'] = label_encoder.fit_transform(books_df['rating_class'])

# Prepare the dataset for training
X_features = X # Keep sparse matrix format
y_target = books_df['rating_class']

# Train-Test Split
X_train, X_test, y_train, y_test = train_test_split(X_features, y_target, test_size=0.2, random_state=42)

# Initialize models (avoiding resource-intensive models like Random Forest and Gradient Boosting)
models = {
    "Logistic Regression": LogisticRegression(max_iter=100, solver='liblinear'),
    "Decision Tree": DecisionTreeClassifier(random_state=42),
    "KNN": KNeighborsClassifier(n_neighbors=5)
}

# Train and Evaluate models
results = {}

for model_name, model in models.items():
    # Train the model
    model.fit(X_train, y_train)

    # Make predictions
    y_pred = model.predict(X_test)

    # Evaluate the model
    accuracy = accuracy_score(y_test, y_pred)
    class_report = classification_report(y_test, y_pred, output_dict=True, zero_division=1)
    confusion = confusion_matrix(y_test, y_pred)

    results[model_name] = {
        'accuracy': accuracy,
        'classification_report': class_report,
        'confusion_matrix': confusion
    }

# Compare models and print results
for model_name, result in results.items():
    print(f"Model: {model_name}")
    print(f"Accuracy: {result['accuracy']:.4f}")
    print("Classification Report:")
    print(result['classification_report'])
    print("Confusion Matrix:")
    print(result['confusion_matrix'])
    print("-" * 50)

# Identify Best Model Based on Accuracy
best_model_name = max(results, key=lambda x: results[x]['accuracy'])

```



```

best_model = models[best_model_name]
print(f"\nBest Model: {best_model_name}")
print(f"Best Model Accuracy: {results[best_model_name]['accuracy']:.4f}")

# Save the best model and vectorizer
joblib.dump(best_model, f'{best_model_name}_model.pkl')
joblib.dump(vectorizer, 'tfidf_vectorizer.pkl')
joblib.dump(label_encoder, 'label_encoder.pkl')

print(f"\nBest model, vectorizer, and label encoder saved to disk.")

# Optionally, to load the model for future predictions:
# loaded_model = joblib.load(f'{best_model_name}_model.pkl')
# loaded_vectorizer = joblib.load('tfidf_vectorizer.pkl')
# loaded_label_encoder = joblib.load('label_encoder.pkl')

```

Model: Logistic Regression

Accuracy: 0.2421

Classification Report:

```

{'0': {'precision': 1.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': {'precision': 0.24225352112676057, 'recall': 0.245014245014245, 'f1-score': 0.24362606232294617, 'support': 702.0}, '2': {'precision': 0.22519083969465647, 'recall': 0.26497005988023953, 'f1-score': 0.24346629986244842, 'support': 668.0}, '3': {'precision': 0.26214833759590794, 'recall': 0.2774018944519621, 'f1-score': 0.2695595003287311, 'support': 739.0}, '4': {'precision': 0.23754789272030652, 'recall': 0.18989280245022971, 'f1-score': 0.21106382978723404, 'support': 653.0}, 'accuracy': 0.24214285714285713, 'macro avg': {'precision': 0.3934281182275263, 'recall': 0.19545580035933527, 'f1-score': 0.19354313846027194, 'support': 2800.0}, 'weighted avg': {'precision': 0.25261994577741165, 'recall': 0.24214285714285713, 'f1-score': 0.23953219130457853, 'support': 2800.0}}

```

Confusion Matrix:

```

[[ 0 10  8 14  6]
 [ 0 172 190 210 130]
 [ 0 180 177 188 123]
 [ 0 184 211 205 139]
 [ 0 164 200 165 124]]

```

Model: Decision Tree

Accuracy: 0.2461

Classification Report:

```

{'0': {'precision': 0.047619047619047616, 'recall': 0.02631578947368421, 'f1-score': 0.03389830508474576, 'support': 38.0}, '1': {'precision': 0.2641221374045801, 'recall': 0.24643874643874644, 'f1-score': 0.25497420781134855, 'support': 702.0}, '2': {'precision': 0.23880597014925373, 'recall': 0.2634730538922156, 'f1-score': 0.2505338078291815, 'support': 668.0}, '3': {'precision': 0.25648021828103684, 'recall': 0.2543978349120433, 'f1-score': 0.2554347826086957, 'support': 739.0}, '4': {'precision': 0.2308868501529052, 'recall': 0.23124042879019907, 'f1-score': 0.23106350420811017, 'support': 653.0}, 'accuracy': 0.24607142857142858, 'macro avg': {'precision': 0.2075828447213647, 'recall': 0.2043731707013777, 'f1-score': 0.20518092150841633, 'support': 2800.0}, 'weighted avg': {'precision': 0.24537630242384784, 'recall': 0.24607142857142858, 'f1-score': 0.2454597806080008, 'support': 2800.0}}

```

Confusion Matrix:

```

[[ 1  7 12  8 10]
 [ 5 173 175 190 159]
 [ 4 166 176 170 152]
 [10 165 194 188 182]
 [ 1 144 180 177 151]]

```

Model: KNN

Accuracy: 0.2396

Classification Report:

```

{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': {'precision': 0.24807903402854006, 'recall': 0.32193732193732194, 'f1-score': 0.28022318660880347, 'support': 702.0}, '2': {'precision': 0.23067331670822944, 'recall': 0.27694610778443113, 'f1-score': 0.25170068027210885, 'support': 668.0}, '3': {'precision': 0.24851190476190477, 'recall': 0.2259810554803789, 'f1-score': 0.23671155209071582, 'support': 739.0}, '4': {'precision': 0.23604060913705585, 'recall': 0.14241960183767227, 'f1-score': 0.17765042979942694, 'support': 653.0}, 'accuracy': 0.23964285714285713, 'macro avg': {'precision': 0.192660972927146, 'recall': 0.19345681740796086, 'f1-score': 0.189257169754211, 'support': 2800.0}, 'weighted avg': {'precision': 0.2378664545838134, 'recall': 0.23964285714285713, 'f1-score': 0.23421010681257623, 'support': 2800.0}}

```

Confusion Matrix:

```

[[ 0 11 13  8  6]

```

```
[ 5 226 198 176 97]
[ 3 224 185 165 91]
[ 7 247 211 167 107]
[ 6 203 195 156 93]]
```

---

Best Model: Decision Tree  
Best Model Accuracy: 0.2461

Best model, vectorizer, and label encoder saved to disk.

In [ ]:

```
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import classification_report
from sklearn.metrics import accuracy_score
from sklearn.metrics import confusion_matrix
import numpy as np
import joblib

# Load the dataset
books_df = pd.read_csv('/content/synthetic_books1_dataset.csv') # Replace with your data
set path

# Text Preprocessing for Clustering
books_df['text_data'] = books_df['Title'] + " " + books_df['Author'] + " " + books_df['G
enres']

# Vectorizing text data (keeping it sparse to save memory)
vectorizer = TfidfVectorizer(stop_words='english', max_features=5000) # Limit features
for faster training
X = vectorizer.fit_transform(books_df['text_data'])

# Encoding Ratings into classes
rating_bins = [0, 1, 2, 3, 4, 5]
books_df['rating_class'] = pd.cut(books_df['Rating'], bins=rating_bins, labels=['c1', 'c2
', 'c3', 'c4', 'c5'])
label_encoder = LabelEncoder()
books_df['rating_class'] = label_encoder.fit_transform(books_df['rating_class'])

# Prepare the dataset for training
X_features = X # Keep sparse matrix format
y_target = books_df['rating_class']

# Train-Test Split
X_train, X_test, y_train, y_test = train_test_split(X_features, y_target, test_size=0.2,
random_state=42)

# Initialize models (avoiding resource-intensive models like Random Forest and Gradient B
oosting)
models = {
    "Logistic Regression": LogisticRegression(max_iter=100, solver='liblinear'),
    "Decision Tree": DecisionTreeClassifier(random_state=42),
    "KNN": KNeighborsClassifier(n_neighbors=5)
}

# Train and Evaluate models
results = {}

for model_name, model in models.items():
    # Train the model
    model.fit(X_train, y_train)

    # Make predictions
    y_pred = model.predict(X_test)
```

```

# Evaluate the model
accuracy = accuracy_score(y_test, y_pred)
class_report = classification_report(y_test, y_pred, output_dict=True, zero_division
=1)
confusion = confusion_matrix(y_test, y_pred)

results[model_name] = {
    'accuracy': accuracy,
    'classification_report': class_report,
    'confusion_matrix': confusion
}

# Compare models and print results
for model_name, result in results.items():
    print(f"Model: {model_name}")
    print(f"Accuracy: {result['accuracy']:.4f}")
    print("Classification Report:")
    print(result['classification_report'])
    print("Confusion Matrix:")
    print(result['confusion_matrix'])
    print("-" * 50)

# Identify Best Model Based on Accuracy
best_model_name = max(results, key=lambda x: results[x]['accuracy'])
best_model = models[best_model_name]
print(f"\nBest Model: {best_model_name}")
print(f"Best Model Accuracy: {results[best_model_name]['accuracy']:.4f}")

# Save the best model and vectorizer
joblib.dump(best_model, f'{best_model_name}_model.pkl')
joblib.dump(vectorizer, 'tfidf_vectorizer.pkl')
joblib.dump(label_encoder, 'label_encoder.pkl')

print(f"\nBest model, vectorizer, and label encoder saved to disk.")

# Optionally, to load the model for future predictions:
# loaded_model = joblib.load(f'{best_model_name}_model.pkl')
# loaded_vectorizer = joblib.load('tfidf_vectorizer.pkl')
# loaded_label_encoder = joblib.load('label_encoder.pkl')

# ----- Prediction with Hardcoded Data -----
-

# Hardcoded data example (Genre: "Fantasy", Sentiment: "Neutral")
hardcoded_data = {
    "Title": "The Lost Kingdom",
    "Author": "John Doe",
    "Genres": "Fantasy",
    "Sentiment": "Neutral",
}

# Preprocess the hardcoded data
hardcoded_text = hardcoded_data['Title'] + " " + hardcoded_data['Author'] + " " + hardco
ded_data['Genres']
hardcoded_data_vectorized = vectorizer.transform([hardcoded_text]) # Transform the text
to feature vector

# Predict rating class using the best model
predicted_class = best_model.predict(hardcoded_data_vectorized)[0]

# Decode the predicted class back to the actual rating class
predicted_rating_class = label_encoder.inverse_transform([predicted_class])[0]

print(f"\nHardcoded Book Prediction:")
print(f"Title: {hardcoded_data['Title']}")
print(f"Author: {hardcoded_data['Author']}")
print(f"Genre: {hardcoded_data['Genres']}")
print(f"Sentiment: {hardcoded_data['Sentiment']}")
print(f"Predicted Rating Class: {predicted_rating_class}")

```

Model: Logistic Regression  
Accuracy: 0.2421

Classification Report:  
{'0': {'precision': 1.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': {'precision': 0.24225352112676057, 'recall': 0.245014245014245, 'f1-score': 0.24362606232294617, 'support': 702.0}, '2': {'precision': 0.22519083969465647, 'recall': 0.26497005988023953, 'f1-score': 0.24346629986244842, 'support': 668.0}, '3': {'precision': 0.26214833759590794, 'recall': 0.2774018944519621, 'f1-score': 0.2695595003287311, 'support': 739.0}, '4': {'precision': 0.23754789272030652, 'recall': 0.18989280245022971, 'f1-score': 0.21106382978723404, 'support': 653.0}, 'accuracy': 0.24214285714285713, 'macro avg': {'precision': 0.3934281182275263, 'recall': 0.19545580035933527, 'f1-score': 0.19354313846027194, 'support': 2800.0}, 'weighted avg': {'precision': 0.25261994577741165, 'recall': 0.24214285714285713, 'f1-score': 0.23953219130457853, 'support': 2800.0}}

Confusion Matrix:

```
[[ 0  10   8  14   6]
 [ 0 172 190 210 130]
 [ 0 180 177 188 123]
 [ 0 184 211 205 139]
 [ 0 164 200 165 124]]
```

Model: Decision Tree

Accuracy: 0.2461

Classification Report:

{'0': {'precision': 0.047619047619047616, 'recall': 0.02631578947368421, 'f1-score': 0.03389830508474576, 'support': 38.0}, '1': {'precision': 0.2641221374045801, 'recall': 0.24643874643874644, 'f1-score': 0.25497420781134855, 'support': 702.0}, '2': {'precision': 0.23880597014925373, 'recall': 0.2634730538922156, 'f1-score': 0.2505338078291815, 'support': 668.0}, '3': {'precision': 0.25648021828103684, 'recall': 0.2543978349120433, 'f1-score': 0.2554347826086957, 'support': 739.0}, '4': {'precision': 0.2308868501529052, 'recall': 0.23124042879019907, 'f1-score': 0.23106350420811017, 'support': 653.0}, 'accuracy': 0.24607142857142858, 'macro avg': {'precision': 0.2075828447213647, 'recall': 0.2043731707013777, 'f1-score': 0.20518092150841633, 'support': 2800.0}, 'weighted avg': {'precision': 0.24537630242384784, 'recall': 0.24607142857142858, 'f1-score': 0.2454597806080008, 'support': 2800.0}}

Confusion Matrix:

```
[[ 1   7  12   8  10]
 [ 5 173 175 190 159]
 [ 4 166 176 170 152]
 [10 165 194 188 182]
 [ 1 144 180 177 151]]
```

Model: KNN

Accuracy: 0.2396

Classification Report:

{'0': {'precision': 0.0, 'recall': 0.0, 'f1-score': 0.0, 'support': 38.0}, '1': {'precision': 0.24807903402854006, 'recall': 0.32193732193732194, 'f1-score': 0.28022318660880347, 'support': 702.0}, '2': {'precision': 0.23067331670822944, 'recall': 0.27694610778443113, 'f1-score': 0.25170068027210885, 'support': 668.0}, '3': {'precision': 0.24851190476190477, 'recall': 0.2259810554803789, 'f1-score': 0.23671155209071582, 'support': 739.0}, '4': {'precision': 0.23604060913705585, 'recall': 0.14241960183767227, 'f1-score': 0.17765042979942694, 'support': 653.0}, 'accuracy': 0.23964285714285713, 'macro avg': {'precision': 0.192660972927146, 'recall': 0.19345681740796086, 'f1-score': 0.189257169754211, 'support': 2800.0}, 'weighted avg': {'precision': 0.2378664545838134, 'recall': 0.23964285714285713, 'f1-score': 0.23421010681257623, 'support': 2800.0}}

Confusion Matrix:

```
[[ 0  11  13   8   6]
 [ 5 226 198 176  97]
 [ 3 224 185 165  91]
 [ 7 247 211 167 107]
 [ 6 203 195 156  93]]
```

Best Model: Decision Tree

Best Model Accuracy: 0.2461

Best model, vectorizer, and label encoder saved to disk.

Hardcoded Book Prediction:

Title: The Lost Kingdom

Author: John Doe

Genre: Fantasy

Sentiment: Neutral

Predicted Rating Class: c5

In [ ]:

```
import joblib
import pandas as pd

# Load the trained model, vectorizer, and label encoder
best_model = joblib.load('/content/Decision Tree_model.pkl') # Change based on the best
model saved
vectorizer = joblib.load('tfidf_vectorizer.pkl')
label_encoder = joblib.load('label_encoder.pkl')

# Load the dataset (if needed for finding related books)
books_df = pd.read_csv('/content/synthetic_books1_dataset.csv') # Replace with the corre
ct path

def predict_books_by_genre(user_genre):
    # Filter books based on the user input genre
    filtered_books = books_df[books_df['Genres'].str.contains(user_genre, case=False, na=
False)]

    if filtered_books.empty:
        return "No books found for this genre. Please try a different genre."

    # Preprocess the filtered data (combine Title, Author, and Genre for prediction)
    filtered_books = filtered_books.copy() # Avoid SettingWithCopyWarning
    filtered_books['text_data'] = filtered_books['Title'] + " " + filtered_books['Author
'] + " " + filtered_books['Genres']

    # Vectorize the text data
    X_genre_input = vectorizer.transform(filtered_books['text_data'])

    # Predict the rating class for the books in the filtered genre
    predicted_classes = best_model.predict(X_genre_input)

    # Decode the predicted classes to numeric values (1-5 instead of c1-c5)
    predicted_rating_classes = [int(label.split('c')[1]) for label in label_encoder.inve
rse_transform(predicted_classes)]

    # Reset the index to align it with predicted_rating_classes
    filtered_books.reset_index(drop=True, inplace=True)

    # Add predicted numeric rating class to the DataFrame
    filtered_books['Predicted Rating Class'] = predicted_rating_classes

    # Sort by predicted rating class (highest first)
    sorted_books = filtered_books.sort_values(by='Predicted Rating Class', ascending=Fal
se)

    # Get the top 5 books
    top_books = sorted_books.head(5)

    # Prepare the results
    results = []
    for idx, book in top_books.iterrows():
        results.append({
            "Title": book['Title'],
            "Author": book['Author'],
            "Genre": book['Genres'],
            "Predicted Rating Class": book['Predicted Rating Class'],
        })

    return results

# User input for genre
user_genre = input("Enter a genre to get book recommendations: ")

# Get the predictions based on user input
predicted_books = predict_books_by_genre(user_genre)

# Display the results
if isinstance(predicted_books, str):
    print(predicted_books) # If no books found, print the message
```

```

else:
    print(f"\nTop 5 Recommended Books for Genre: {user_genre.capitalize()}")
    for book in predicted_books:
        print(f"\nTitle: {book['Title']}")
        print(f"Author: {book['Author']}")
        print(f"Genre: {book['Genre']}")
        print(f"Predicted Rating Class: {book['Predicted Rating Class']}")

```

Enter a genre to get book recommendations: Fantasy

Top 5 Recommended Books for Genre: Fantasy

Title: Research song.  
 Author: Judy Rice  
 Genre: Fantasy  
 Predicted Rating Class: 5

Title: Color in see face national.  
 Author: Nicholas Wilson  
 Genre: Fantasy  
 Predicted Rating Class: 5

Title: Person PM director.  
 Author: Charles Fernandez  
 Genre: Fantasy  
 Predicted Rating Class: 5

Title: Radio the question.  
 Author: Ashley Rowe  
 Genre: Fantasy  
 Predicted Rating Class: 5

Title: Authority agent guess.  
 Author: Steven Campos  
 Genre: Fantasy  
 Predicted Rating Class: 5

In [ ]:

```

import pandas as pd
import joblib

# Load the saved model, vectorizer, and label encoder
best_model = joblib.load('/content/Decision Tree_model.pkl') # Replace with the correct
model name
vectorizer = joblib.load('tfidf_vectorizer.pkl')
label_encoder = joblib.load('label_encoder.pkl')

# Load the dataset (CSV with the columns you provided)
books_df = pd.read_csv('/content/clustered_books_dataset.csv') # Path to the books datas
et

# Ensure 'rating_class' is generated if it's missing
if 'rating_class' not in books_df.columns:
    # Encoding Ratings into classes
    rating_bins = [0, 1, 2, 3, 4, 5]
    books_df['rating_class'] = pd.cut(books_df['Rating'], bins=rating_bins, labels=['1',
'2', '3', '4', '5'])
    label_encoder = joblib.load('label_encoder.pkl') # Ensure the label encoder is used
for inverse_transform

# Function to predict rating class and show books based on genre
def predict_and_display_books(genre):
    # Preprocess the input data (no title, no author, just genre and sentiment)
    text_data = f"Unknown Title Unknown Author {genre} Neutral" # Combine title, author,
genre, sentiment
    vectorized_data = vectorizer.transform([text_data]) # Vectorize the input data

    # Predict the rating class
    predicted_class = best_model.predict(vectorized_data)[0]

    # Decode the predicted class to actual rating class

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predicted_rating_class = label_encoder.inverse_transform([predicted_class])[0]

# Find the books that match the genre and predicted rating class
matching_books = books_df[(books_df['Genres'] == genre) & (books_df['rating_class']
== predicted_class)]

# Display the results
if not matching_books.empty:
    print(f"\nPredicted Rating Class for the genre '{genre}': {predicted_rating_class}")
    print("\nMatching Books and Authors:")
    for index, row in matching_books.iterrows():
        print(f"Book Title: {row['Title']}, Author: {row['Author']}, Rating: {row['Rating']}")
    else:
        print(f"\nNo books found for the genre '{genre}' with predicted rating class '{predicted_rating_class}'.")

# Get user input for genre
user_genre = input("Enter the book genre (e.g., Fantasy, Biography, Science Fiction): ").strip()

# Call the function to predict the rating class and display the books
predict_and_display_books(user_genre)

```

Enter the book genre (e.g., Fantasy, Biography, Science Fiction): Fantasy

No books found for the genre 'Fantasy' with predicted rating class 'c4'.

In [ ]: