HW 2 Part 2

Q1.1 part a and b)

```
[nltk_data] Downloading package punkt to /Users/Arman/nltk_data...
[nltk_data] Unzipping tokenizers/punkt.zip.
Token counts per document:
Jerry Decided To Buy a Gun.txt: 305 tokens
Rentals at the Oceanside Community.txt: 380 tokens
Gasoline Prices Hit Record High.txt: 303 tokens
Cloning Pets.txt: 266 tokens
Crazy Housing Prices.txt: 403 tokens
Man Injured at Fast Food Place.txt: 173 tokens
A Festival of Books.txt: 305 tokens
Food Fight Erupted in Prison.txt: 222 tokens
Better To Be Unlucky.txt: 359 tokens
Sara Went Shopping.txt: 165 tokens
Freeway Chase Ends at Newsstand.txt: 335 tokens
Trees Are a Threat.txt: 344 tokens
A Murder-Suicide.txt: 407 tokens
Happy and Unhappy Renters.txt: 317 tokens
Pulling Out Nine Tons of Trash.txt: 298 tokens
Total number of tokens in the entire collection: 4582
Number of unique tokens in the entire collection: 1427
Q1.1 a and b)
Token counts per document (no stop words):
Jerry Decided To Buy a Gun.txt: 176 tokens
Rentals at the Oceanside Community.txt: 224 tokens
Gasoline Prices Hit Record High.txt: 176 tokens
Cloning Pets.txt: 158 tokens
Crazy Housing Prices.txt: 226 tokens
Man Injured at Fast Food Place.txt: 107 tokens
A Festival of Books.txt: 198 tokens
Food Fight Erupted in Prison.txt: 140 tokens
Better To Be Unlucky.txt: 218 tokens
Sara Went Shopping.txt: 112 tokens
Freeway Chase Ends at Newsstand.txt: 186 tokens
Trees Are a Threat.txt: 196 tokens
A Murder-Suicide.txt: 221 tokens
Happy and Unhappy Renters.txt: 185 tokens
Pulling Out Nine Tons of Trash.txt: 201 tokens
Total number of tokens in the entire collection (no stop words): 2724
Number of unique tokens in the entire collection (no stop words): 1265
Q1.3)
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110
                                                            world
                                                                      worms
Jerry Decided To Buy a Gun.txt
                                         0.000000
                                                         0.000000
                                                                   0.000000
                                                    . . .
Rentals at the Oceanside Community.txt
                                         0.000000
                                                         0.000000
                                                                   0.061586
Gasoline Prices Hit Record High.txt
                                         0.000000
                                                         0.000000
                                                                   0.000000
Cloning Pets.txt
                                         0.000000
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                                                                   0.000000
Crazy Housing Prices.txt
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Man Injured at Fast Food Place.txt
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A Festival of Books.txt
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                                                    . . .
Food Fight Erupted in Prison.txt
                                         0.000000
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Better To Be Unlucky.txt
                                         0.056063
                                                         0.000000
                                                                   0.000000
Sara Went Shopping.txt
                                         0.000000
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Freeway Chase Ends at Newsstand.txt
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Trees Are a Threat.txt
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A Murder-Suicide.txt
                                         0.000000
                                                    . . .
                                                         0.066095
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Happy and Unhappy Renters.txt
                                         0.000000
                                                         0.065236
                                                                   0.000000
Pulling Out Nine Tons of Trash.txt
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community txt
                                         0.043261
                                                   0.000000
                                                              0.000000
Gasoline Prices Hit Record High.txt
                                         0.000000
                                                   0.000000
                                                              0.000000
                                         0.000000
                                                   0.000000
Cloning Pets.txt
                                                              0.105559
Crazy Housing Prices.txt
                                         0.054339
                                                   0.067171
                                                              0.034532
Man Injured at Fast Food Place.txt
                                                   0.000000
                                         0.000000
                                                              0.045375
A Festival of Books.txt
                                         0.000000
                                                   0.000000
                                                              0.099136
Food Fight Erupted in Prison.txt
                                         0.000000
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Better To Be Unlucky.txt
                                         0.039381
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                                                              0.025027
Sara Went Shopping.txt
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Freeway Chase Ends at Newsstand.txt
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                                                              0.028409
Trees Are a Threat.txt
                                                   0.000000
                                         0.000000
                                                              0.031423
A Murder-Suicide.txt
                                         0.000000
                                                   0.000000
                                                              0.101938
Happy and Unhappy Renters.txt
                                         0.000000
                                                   0.065236
                                                              0.033538
Pulling Out Nine Tons of Trash.txt
                                         0.059387
                                                   0.000000
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
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                                         0.027493
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Gasoline Prices Hit Record High.txt
                                         0.033227
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Cloning Pets.txt
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Crazy Housing Prices.txt
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                                         0.069065
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Man Injured at Fast Food Place.txt
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A Festival of Books.txt
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Food Fight Erupted in Prison.txt
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Better To Be Unlucky.txt
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Sara Went Shopping.txt
                                         0.077123
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Freeway Chase Ends at Newsstand.txt
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Trees Are a Threat.txt
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A Murder-Suicide.txt
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                                         0.101938
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Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
                                         0.037740
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TF-IDF Matrix:
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
                                    0.000000
                                              0.033862
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Gasoline Prices Hit Record High.txt
                                    0.000000
                                              0.000000
                                                       0.074431
Cloning Pets.txt
                                    0.000000
                                              0.130012
                                                       0.000000
Crazy Housing Prices.txt
                                    0.000000
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Man Injured at Fast Food Place.txt
                                    0.101645
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                                    0.000000 0.081401
A Festival of Books.txt
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Food Fight Erupted in Prison.txt
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Better To Be Unlucky.txt
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Sara Went Shopping.txt
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Freeway Chase Ends at Newsstand.txt
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Trees Are a Threat.txt
A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
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Gasoline Prices Hit Record High.txt
                                    0.044151
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Cloning Pets.txt
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Crazy Housing Prices.txt
                                    0.045886
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Man Injured at Fast Food Place.txt
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                                    0.043910
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A Festival of Books.txt
Food Fight Erupted in Prison.txt
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Better To Be Unlucky.txt
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                                              0.056063
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Sara Went Shopping.txt
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Freeway Chase Ends at Newsstand.txt
Trees Are a Threat.txt
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A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
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Gasoline Prices Hit Record High.txt
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Cloning Pets.txt
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Crazy Housing Prices.txt
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Man Injured at Fast Food Place.txt
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A Festival of Books.txt
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Food Fight Erupted in Prison.txt
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Better To Be Unluckv.txt
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Sara Went Shopping.txt
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Freeway Chase Ends at Newsstand.txt
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Trees Are a Threat.txt
A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
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Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
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Gasoline Prices Hit Record High.txt
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Cloning Pets.txt
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Crazy Housing Prices.txt
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Man Injured at Fast Food Place.txt
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                                                                   0.088261
A Festival of Books.txt
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Food Fight Erupted in Prison.txt
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Better To Be Unlucky.txt
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                                                                   0.000000
Sara Went Shopping.txt
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Freeway Chase Ends at Newsstand.txt
                                                      0.063639
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Trees Are a Threat.txt
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A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
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Jerry Decided To Buy a Gun.txt Rentals at the Oceanside Community.txt Gasoline Prices Hit Record High.txt Cloning Pets.txt Crazy Housing Prices.txt Man Injured at Fast Food Place.txt A Festival of Books.txt Food Fight Erupted in Prison.txt Better To Be Unlucky.txt Sara Went Shopping.txt Freeway Chase Ends at Newsstand.txt Trees Are a Threat.txt A Murder-Suicide.txt Happy and Unhappy Renters.txt Pulling Out Nine Tons of Trash.txt	Cloning Pets.txt \	
Jerry Decided To Buy a Gun.txt Rentals at the Oceanside Community.txt Gasoline Prices Hit Record High.txt Cloning Pets.txt Crazy Housing Prices.txt Man Injured at Fast Food Place.txt A Festival of Books.txt Food Fight Erupted in Prison.txt Better To Be Unlucky.txt Sara Went Shopping.txt Freeway Chase Ends at Newsstand.txt Trees Are a Threat.txt A Murder-Suicide.txt Happy and Unhappy Renters.txt Pulling Out Nine Tons of Trash.txt	Crazy Housing Prices.txt \	
Jerry Decided To Buy a Gun.txt Rentals at the Oceanside Community.txt Gasoline Prices Hit Record High.txt Cloning Pets.txt Crazy Housing Prices.txt Man Injured at Fast Food Place.txt A Festival of Books.txt Food Fight Erupted in Prison.txt Better To Be Unlucky.txt Sara Went Shopping.txt Freeway Chase Ends at Newsstand.txt Trees Are a Threat.txt A Murder-Suicide.txt Happy and Unhappy Renters.txt Pulling Out Nine Tons of Trash.txt	Man Injured at Fast Food Place.txt	

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Sara Went Shopping.txt \
Jerry Decided To Buy a Gun.txt
                                                       0.057951
Rentals at the Oceanside Community.txt
                                                       0.008003
Gasoline Prices Hit Record High.txt
                                                       0.054323
Cloning Pets.txt
                                                       0.027891
Crazy Housing Prices.txt
                                                       0.036512
Man Injured at Fast Food Place.txt
                                                       0.027431
A Festival of Books.txt
                                                       0.013832
Food Fight Erupted in Prison.txt
                                                       0.006738
Better To Be Unlucky.txt
                                                       0.021947
Sara Went Shopping.txt
                                                       1.000000
Freeway Chase Ends at Newsstand.txt
                                                       0.012001
Trees Are a Threat.txt
                                                       0.027941
A Murder-Suicide.txt
                                                       0.052147
Happy and Unhappy Renters.txt
                                                       0.021475
Pulling Out Nine Tons of Trash.txt
                                                       0.021339
                                         Freeway Chase Ends at Newsstand.txt \
Jerry Decided To Buy a Gun.txt
                                                                    0.032660
Rentals at the Oceanside Community.txt
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Gasoline Prices Hit Record High.txt
                                                                    0.027218
Cloning Pets.txt
                                                                    0.002999
Crazy Housing Prices.txt
                                                                    0.008403
Man Injured at Fast Food Place.txt
                                                                    0.013212
A Festival of Books.txt
                                                                    0.062476
Food Fight Erupted in Prison.txt
                                                                    0.021445
Better To Be Unlucky.txt
                                                                    0.037185
Sara Went Shopping.txt
                                                                    0.012001
Freeway Chase Ends at Newsstand.txt
                                                                    1.000000
Trees Are a Threat.txt
                                                                    0.006608
A Murder-Suicide.txt
                                                                    0.037314
Happy and Unhappy Renters.txt
                                                                    0.030826
Pulling Out Nine Tons of Trash.txt
                                                                    0.020122
                                        Trees Are a Threat.txt \
Jerry Decided To Buy a Gun.txt
                                                       0.018511
Rentals at the Oceanside Community.txt
                                                       0.061548
Gasoline Prices Hit Record High.txt
                                                       0.044802
Cloning Pets.txt
                                                       0.038140
Crazy Housing Prices.txt
                                                       0.095101
Man Injured at Fast Food Place.txt
                                                       0.010896
A Festival of Books.txt
                                                       0.050294
Food Fight Erupted in Prison.txt
                                                       0.026958
Better To Be Unlucky.txt
                                                       0.064875
Sara Went Shopping.txt
                                                       0.027941
Freeway Chase Ends at Newsstand.txt
                                                       0.006608
Trees Are a Threat.txt
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A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
                                                       0.016480
Pulling Out Nine Tons of Trash.txt
                                                       0.036048
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A Festival of Books.txt \
Jerry Decided To Buy a Gun.txt
                                                       0.045236
Rentals at the Oceanside Community.txt
                                                       0.071991
Gasoline Prices Hit Record High.txt
                                                       0.047632
Cloning Pets.txt
                                                       0.033434
Crazy Housing Prices.txt
                                                       0.068660
Man Injured at Fast Food Place.txt
                                                       0.030419
                                                       1.000000
A Festival of Books.txt
Food Fight Erupted in Prison.txt
                                                       0.053347
Better To Be Unlucky.txt
                                                       0.033868
Sara Went Shopping.txt
                                                       0.013832
Freeway Chase Ends at Newsstand.txt
                                                       0.062476
Trees Are a Threat.txt
                                                       0.050294
A Murder-Suicide.txt
                                                       0.085042
Happy and Unhappy Renters.txt
                                                       0.041805
Pulling Out Nine Tons of Trash.txt
                                                       0.045189
                                        Food Fight Erupted in Prison.txt \
Jerry Decided To Buy a Gun.txt
                                                                0.020018
Rentals at the Oceanside Community.txt
                                                                0.033600
Gasoline Prices Hit Record High.txt
                                                                0.013885
Cloning Pets.txt
                                                                0.015805
Crazy Housing Prices.txt
                                                                0.030588
Man Injured at Fast Food Place.txt
                                                                0.007413
A Festival of Books.txt
                                                                0.053347
Food Fight Erupted in Prison.txt
                                                                1.000000
Better To Be Unlucky.txt
                                                                0.007922
Sara Went Shopping.txt
                                                                0.006738
Freeway Chase Ends at Newsstand.txt
                                                                0.021445
Trees Are a Threat.txt
                                                                0.026958
A Murder-Suicide.txt
                                                                0.070986
Happy and Unhappy Renters.txt
                                                                0.015118
Pulling Out Nine Tons of Trash.txt
                                                                0.025997
                                        Better To Be Unlucky.txt \
Jerry Decided To Buy a Gun.txt
                                                        0.032867
Rentals at the Oceanside Community.txt
                                                        0.012303
Gasoline Prices Hit Record High.txt
                                                        0.026767
Cloning Pets.txt
                                                        0.044856
Crazy Housing Prices.txt
                                                        0.060575
Man Injured at Fast Food Place.txt
                                                        0.006747
A Festival of Books.txt
                                                        0.033868
Food Fight Erupted in Prison.txt
                                                        0.007922
Better To Be Unlucky.txt
                                                        1.000000
Sara Went Shopping.txt
                                                        0.021947
Freeway Chase Ends at Newsstand.txt
                                                        0.037185
Trees Are a Threat.txt
                                                        0.064875
A Murder-Suicide.txt
                                                        0.036279
Happy and Unhappy Renters.txt
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Pulling Out Nine Tons of Trash.txt
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Cloning Pets.txt \
Jerry Decided To Buy a Gun.txt
                                                0.036922
Rentals at the Oceanside Community.txt
                                                0.013216
Gasoline Prices Hit Record High.txt
                                                0.019425
Cloning Pets.txt
                                                 1.000000
Crazy Housing Prices.txt
                                                0.067994
Man Injured at Fast Food Place.txt
                                                0.047735
A Festival of Books.txt
                                                0.033434
Food Fight Erupted in Prison.txt
                                                0.015805
Better To Be Unlucky.txt
                                                0.044856
Sara Went Shopping.txt
                                                0.027891
Freeway Chase Ends at Newsstand.txt
                                                0.002999
Trees Are a Threat.txt
                                                0.038140
A Murder-Suicide.txt
                                                0.047519
Happy and Unhappy Renters.txt
                                                0.019277
Pulling Out Nine Tons of Trash.txt
                                                0.018124
                                        Crazy Housing Prices.txt \
Jerry Decided To Buy a Gun.txt
                                                        0.071246
Rentals at the Oceanside Community.txt
                                                         0.061602
Gasoline Prices Hit Record High.txt
                                                        0.083099
Cloning Pets.txt
                                                        0.067994
Crazy Housing Prices.txt
                                                        1.000000
Man Injured at Fast Food Place.txt
                                                        0.023678
A Festival of Books.txt
                                                        0.068660
Food Fight Erupted in Prison.txt
                                                        0.030588
Better To Be Unlucky.txt
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Sara Went Shopping.txt
                                                        0.036512
Freeway Chase Ends at Newsstand.txt
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Trees Are a Threat.txt
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A Murder-Suicide.txt
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Happy and Unhappy Renters.txt
                                                        0.081159
Pulling Out Nine Tons of Trash.txt
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                                        Man Injured at Fast Food Place.txt \
Jerry Decided To Buy a Gun.txt
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Rentals at the Oceanside Community.txt
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Gasoline Prices Hit Record High.txt
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Cloning Pets.txt
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Crazy Housing Prices.txt
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Man Injured at Fast Food Place.txt
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A Festival of Books.txt
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Food Fight Erupted in Prison.txt
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Better To Be Unlucky.txt
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Sara Went Shopping.txt
                                                                   0.027431
Freeway Chase Ends at Newsstand.txt
                                                                   0.013212
Trees Are a Threat.txt
                                                                   0.010896
A Murder-Suicide.txt
                                                                   0.040404
Happy and Unhappy Renters.txt
                                                                   0.027890
Pulling Out Nine Tons of Trash.txt
                                                                   0.011482
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Jarry Decided To Ruy a Gun tyt	A Murder-Suicide.txt \ 0.080462
Jerry Decided To Buy a Gun.txt	
Rentals at the Oceanside Community.txt	0.038473
Gasoline Prices Hit Record High.txt	0.083924
Cloning Pets.txt	0.047519
Crazy Housing Prices.txt	0.087660
Man Injured at Fast Food Place.txt	0.040404
A Festival of Books.txt	0.085042
Food Fight Erupted in Prison.txt	0.070986
Better To Be Unlucky.txt	0.036279
Sara Went Shopping.txt	0.052147
Freeway Chase Ends at Newsstand.txt	0.037314
Trees Are a Threat.txt	0.038364
A Murder-Suicide.txt	1.000000
Happy and Unhappy Renters.txt	0.081704
Pulling Out Nine Tons of Trash.txt	0.055772
	Hanny and Hahanny Bantons tost)
James Basidad Ta Burn - Com tout	Happy and Unhappy Renters.txt \
Jerry Decided To Buy a Gun.txt	0.053486
Rentals at the Oceanside Community.txt	0.075391
Gasoline Prices Hit Record High.txt	0.028659
Cloning Pets.txt	0.019277
Crazy Housing Prices.txt	0.081159
Man Injured at Fast Food Place.txt	0.027890
A Festival of Books.txt	0.041805
Food Fight Erupted in Prison.txt	0.015118
Better To Be Unlucky.txt	0.039435
Sara Went Shopping.txt	0.021475
Freeway Chase Ends at Newsstand.txt	0.030826
Trees Are a Threat.txt	0.016480
A Murder-Suicide.txt	0.081704
Happy and Unhappy Renters.txt	1.000000
Pulling Out Nine Tons of Trash.txt	0.047357
	Dulling Out Nine Tens of Trach tyt
Johny Docided To Pure a Cun tyt	Pulling Out Nine Tons of Trash.txt 0.049805
Jerry Decided To Buy a Gun.txt	
Rentals at the Oceanside Community.txt	0.054498
Gasoline Prices Hit Record High.txt	0.024639
Cloning Pets.txt	0.018124
Crazy Housing Prices.txt	0.047411
Man Injured at Fast Food Place.txt	0.011482
A Festival of Books.txt	0.045189
Food Fight Erupted in Prison.txt	0.025997
Better To Be Unlucky.txt	0.039083
Sara Went Shopping.txt	0.021339
Freeway Chase Ends at Newsstand.txt	0.020122
Trees Are a Threat.txt	0.036048
A Murder-Suicide.txt	0.055772
Happy and Unhappy Renters.txt	0.047357
Pulling Out Nine Tons of Trash.txt	1.000000

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Jerry Decided To Buy a Gun.txt Rentals at the Oceanside Community.txt Gasoline Prices Hit Record High.txt Cloning Pets.txt Crazy Housing Prices.txt Man Injured at Fast Food Place.txt A Festival of Books.txt Food Fight Erupted in Prison.txt Better To Be Unlucky.txt Sara Went Shopping.txt Freeway Chase Ends at Newsstand.txt Trees Are a Threat.txt A Murder-Suicide.txt Happy and Unhappy Renters.txt Pulling Out Nine Tons of Trash.txt	Jerry Decided To Buy a Gun.txt 1.000000 0.011724 0.052392 0.036922 0.071246 0.069547 0.045236 0.020018 0.032867 0.057951 0.032660 0.018511 0.080462 0.053486 0.049805
Jerry Decided To Buy a Gun.txt Rentals at the Oceanside Community.txt Gasoline Prices Hit Record High.txt Cloning Pets.txt Crazy Housing Prices.txt Man Injured at Fast Food Place.txt A Festival of Books.txt Food Fight Erupted in Prison.txt Better To Be Unlucky.txt Sara Went Shopping.txt Freeway Chase Ends at Newsstand.txt Trees Are a Threat.txt A Murder-Suicide.txt Happy and Unhappy Renters.txt Pulling Out Nine Tons of Trash.txt	Rentals at the Oceanside Community.txt
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