In [1]:
```
'''with summarize p6 dataset'''
```

Out[1]:
```
'with summarize p6 dataset'
```

In [2]:
```
!pip install sentence_transformers
import numpy as np
import pandas as pd
from transformers import pipeline
from sentence_transformers import SentenceTransformer, util
import os
import re

import nltk
from nltk.corpus import stopwords

from gensim.corpora import Dictionary
from gensim.models import HdpModel
from sklearn.metrics.pairwise import cosine_similarity
from sentence_transformers import SentenceTransformer
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.decomposition import TruncatedSVD
```

```
Collecting sentence_transformers
  Downloading sentence-transformers-2.2.2.tar.gz (85 kB)
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 86.0/86.0 kB 4.5 MB/s eta 0:00:00
  Preparing metadata (setup.py) ... done
Requirement already satisfied: transformers<5.0.0,>=4.6.0 in /opt/conda/lib/python3.
7/site-packages (from sentence_transformers) (4.26.1)
Requirement already satisfied: tqdm in /opt/conda/lib/python3.7/site-packages (from s
entence_transformers) (4.64.1)
Requirement already satisfied: torch>=1.6.0 in /opt/conda/lib/python3.7/site-packages
(from sentence_transformers) (1.13.0+cpu)
Requirement already satisfied: torchvision in /opt/conda/lib/python3.7/site-packages
(from sentence_transformers) (0.14.0+cpu)
Requirement already satisfied: numpy in /opt/conda/lib/python3.7/site-packages (from
sentence_transformers) (1.21.6)
Requirement already satisfied: scikit-learn in /opt/conda/lib/python3.7/site-packages
(from sentence_transformers) (1.0.2)
Requirement already satisfied: scipy in /opt/conda/lib/python3.7/site-packages (from
sentence_transformers) (1.7.3)
Requirement already satisfied: nltk in /opt/conda/lib/python3.7/site-packages (from s
entence_transformers) (3.2.4)
Requirement already satisfied: sentencepiece in /opt/conda/lib/python3.7/site-package
s (from sentence_transformers) (0.1.97)
Requirement already satisfied: huggingface-hub>=0.4.0 in /opt/conda/lib/python3.7/sit
e-packages (from sentence_transformers) (0.12.1)
Requirement already satisfied: pyyaml>=5.1 in /opt/conda/lib/python3.7/site-packages
(from huggingface-hub>=0.4.0->sentence_transformers) (6.0)
Requirement already satisfied: filelock in /opt/conda/lib/python3.7/site-packages (fr
om huggingface-hub>=0.4.0->sentence_transformers) (3.9.0)
Requirement already satisfied: importlib-metadata in /opt/conda/lib/python3.7/site-pa
ckages (from huggingface-hub>=0.4.0->sentence_transformers) (4.11.4)
Requirement already satisfied: typing-extensions>=3.7.4.3 in /opt/conda/lib/python3.
7/site-packages (from huggingface-hub>=0.4.0->sentence_transformers) (4.4.0)
Requirement already satisfied: requests in /opt/conda/lib/python3.7/site-packages (fr
om huggingface-hub>=0.4.0->sentence_transformers) (2.28.2)
Requirement already satisfied: packaging>=20.9 in /opt/conda/lib/python3.7/site-packa
ges (from huggingface-hub>=0.4.0->sentence_transformers) (23.0)
Requirement already satisfied: regex!=2019.12.17 in /opt/conda/lib/python3.7/site-pac
kages (from transformers<5.0.0,>=4.6.0->sentence_transformers) (2021.11.10)
Requirement already satisfied: tokenizers!=0.11.3,<0.14,>=0.11.1 in /opt/conda/lib/py
thon3.7/site-packages (from transformers<5.0.0,>=4.6.0->sentence_transformers) (0.13.
2)
Requirement already satisfied: six in /opt/conda/lib/python3.7/site-packages (from nl
tk->sentence_transformers) (1.16.0)
Requirement already satisfied: joblib>=0.11 in /opt/conda/lib/python3.7/site-packages
(from scikit-learn->sentence_transformers) (1.2.0)
Requirement already satisfied: threadpoolctl>=2.0.0 in /opt/conda/lib/python3.7/site-
packages (from scikit-learn->sentence_transformers) (3.1.0)
Requirement already satisfied: pillow!=8.3.*,>=5.3.0 in /opt/conda/lib/python3.7/site
-packages (from torchvision->sentence_transformers) (9.4.0)
Requirement already satisfied: zipp>=0.5 in /opt/conda/lib/python3.7/site-packages (f
rom importlib-metadata->huggingface-hub>=0.4.0->sentence_transformers) (3.11.0)
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/lib/python3.7/site-pa
ckages (from requests->huggingface-hub>=0.4.0->sentence_transformers) (2022.12.7)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /opt/conda/lib/python3.7/site
-packages (from requests->huggingface-hub>=0.4.0->sentence_transformers) (1.26.14)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.7/site-packages
(from requests->huggingface-hub>=0.4.0->sentence_transformers) (3.4)
Requirement already satisfied: charset-normalizer<4,>=2 in /opt/conda/lib/python3.7/s
ite-packages (from requests->huggingface-hub>=0.4.0->sentence_transformers) (2.1.1)
Building wheels for collected packages: sentence_transformers
```

```
  Building wheel for sentence_transformers (setup.py) ... done
  Created wheel for sentence_transformers: filename=sentence_transformers-2.2.2-py3-n
one-any.whl size=125938 sha256=65bae9d6fb5b2fa7c8cd81df14ef91a499cebd29f109d7c780db21
1722736292
  Stored in directory: /root/.cache/pip/wheels/83/71/2b/40d17d21937fed496fb99145227ec
a8f20b4891240ff60c86f
Successfully built sentence_transformers
Installing collected packages: sentence_transformers
Successfully installed sentence_transformers-2.2.2
WARNING: Running pip as the 'root' user can result in broken permissions and conflict
ing behaviour with the system package manager. It is recommended to use a virtual env
ironment instead: https://pip.pypa.io/warnings/venv
```

In [3]:

```
summarizer = pipeline("summarization", model="philschmid/bart-large-cnn-samsum")
model = SentenceTransformer('all-MiniLM-L6-v2')
```

```
Downloading (…)lve/main/config.json:   0%|          | 0.00/1.63k [00:00<?, ?B/s]
Downloading (…)"pytorch_model.bin";:   0%|          | 0.00/1.63G [00:00<?, ?B/s]
Downloading (…)okenizer_config.json:   0%|          | 0.00/300 [00:00<?, ?B/s]
Downloading (…)olve/main/vocab.json:   0%|          | 0.00/798k [00:00<?, ?B/s]
Downloading (…)olve/main/merges.txt:   0%|          | 0.00/456k [00:00<?, ?B/s]
Downloading (…)cial_tokens_map.json:   0%|          | 0.00/239 [00:00<?, ?B/s]
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Downloading (…)_Pooling/config.json:   0%|          | 0.00/190 [00:00<?, ?B/s]
Downloading (…)7e55de9125/README.md:   0%|          | 0.00/10.6k [00:00<?, ?B/s]
Downloading (…)55de9125/config.json:   0%|          | 0.00/612 [00:00<?, ?B/s]
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Downloading (…)125/data_config.json:   0%|          | 0.00/39.3k [00:00<?, ?B/s]
Downloading (…)"pytorch_model.bin";:   0%|          | 0.00/90.9M [00:00<?, ?B/s]
Downloading (…)nce_bert_config.json:   0%|          | 0.00/53.0 [00:00<?, ?B/s]
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Downloading (…)e9125/tokenizer.json:   0%|          | 0.00/466k [00:00<?, ?B/s]
Downloading (…)okenizer_config.json:   0%|          | 0.00/350 [00:00<?, ?B/s]
Downloading (…)9125/train_script.py:   0%|          | 0.00/13.2k [00:00<?, ?B/s]
Downloading (…)7e55de9125/vocab.txt:   0%|          | 0.00/232k [00:00<?, ?B/s]
Downloading (…)5de9125/modules.json:   0%|          | 0.00/349 [00:00<?, ?B/s]
```

In [4]:

```
expected_answer="""Dear @ORGANIZATION1, The computer blinked to life and an image of a
answer="""I think computers are good because you can talk to your friends and family c
```

In [5]:

```
def preprocess_text(x:str,remove_stopwords=False)->str:
    x = x.lower()
    x = re.sub("[^a-z\s+]","",x)
    if remove_stopwords:
        x = " ".join([word for word in x.split() if word not in  stopwords.words('engl
    return x
preprocess_text(expected_answer,remove_stopwords=True)
```

Out[5]:
```
'dear organization computer blinked life image blonde haired girl filled screen easy
find life location thanks actual caps girl explaining going library wouldnt filled on
e priceless information human interection computers nessessity life soceity wishes gr
ow expand supported teach hand eye coordination give people ability learn faraway pla
ces allow people talk others online firstly computers help teach hand eye coordinatio
n handeye coordination useful ability usod excel sports recent survey percent kids fe
lt hand eye coordination improves computer use even simple thing like tying build ski
ll famous neurologist caps person stated article last week caps computer strength cap
s computer automatically process eyes see command hands caps hand eye coordination im
prove people sports baseball basketball someone want become better sports theyd need
turn computer people become better sports theyre likely play become healthy reality c
omputers help exercising instead decreasing additionaly computers allow people access
information faraway places people someone wanted reasearch location theyd need type s
earch would presented would link forever search countless things also ability learn c
ultures make peole peole cultures understand others something increase tolerance peop
le computers resourceful tool help people every different aspect life lastly computer
technology allow people chat computer chat video chat help different nations bring go
od terms places help us understand story comes something happend location people go c
omputer ask actual location citizen take matter also video chat online conversation c
ut expensive phone bills one wants pay economy another good point acess family member
s scaresly visit help connect within family oviously computers useful aid todays era
advancements push world foreward better place computers help people help teach handey
e coordination give people bility learn faraway places people allow people talk onlin
e others think world computers technologicall advancements world would sectored unifi
ed contact people scare information even internet like thousands librarys put togethe
r nobody would know much nations news would travel slower kind palce want people liv
e'
```

In [6]:
```python
def get_similarity_using_HDP(answer,expected_answer):

    data = [preprocess_text(temp).split(" ") for temp in [answer,expected_answer]]
    dictionary = Dictionary(data)
    corpus = [dictionary.doc2bow(doc) for doc in data]
    print(dictionary)
    hdp = HdpModel(corpus, dictionary)
    doc1_topics = hdp[corpus[0]]
    doc2_topics = hdp[corpus[1]]
    similarity = cosine_similarity(doc1_topics, doc2_topics).mean()

    return (similarity)
similarity = get_similarity_using_HDP(answer,expected_answer)
similarity
```

```
Dictionary(253 unique tokens: ['a', 'and', 'are', 'because', 'can']...)
```

Out[6]:
```
0.8498233820574361
```

In [7]:
```python
def get_similarity_using_bert(answer,expected_answer):

    data = [preprocess_text(temp) for temp in [answer,expected_answer]]
    model = SentenceTransformer('bert-base-nli-mean-tokens')
    embeddings = model.encode(data)
    similarity = cosine_similarity([embeddings[0]], [embeddings[1]]).mean()
    return (similarity)
similarity = get_similarity_using_bert(answer,expected_answer)
similarity
```

```
Downloading (…)821d1/.gitattributes:   0%|          | 0.00/391 [00:00<?, ?B/s]
Downloading (…)_Pooling/config.json:   0%|          | 0.00/190 [00:00<?, ?B/s]
Downloading (…)8d01e821d1/README.md:   0%|          | 0.00/3.95k [00:00<?, ?B/s]
Downloading (…)d1/added_tokens.json:   0%|          | 0.00/2.00 [00:00<?, ?B/s]
```

```
Downloading (…)01e821d1/config.json:   0%|          | 0.00/625 [00:00<?, ?B/s]
Downloading (…)ce_transformers.json:   0%|          | 0.00/122 [00:00<?, ?B/s]
Downloading (…)"pytorch_model.bin";:   0%|          | 0.00/438M [00:00<?, ?B/s]
Downloading (…)nce_bert_config.json:   0%|          | 0.00/53.0 [00:00<?, ?B/s]
Downloading (…)cial_tokens_map.json:   0%|          | 0.00/112 [00:00<?, ?B/s]
Downloading (…)821d1/tokenizer.json:   0%|          | 0.00/466k [00:00<?, ?B/s]
Downloading (…)okenizer_config.json:   0%|          | 0.00/399 [00:00<?, ?B/s]
Downloading (…)8d01e821d1/vocab.txt:   0%|          | 0.00/232k [00:00<?, ?B/s]
Downloading (…)1e821d1/modules.json:   0%|          | 0.00/229 [00:00<?, ?B/s]
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
```

Out[7]:

```
0.74337614
```

In [8]:

```
from gensim.models import LdaModel
def get_similarity_using_lda(answer,expected_answer):
    temp = [preprocess_text(x,remove_stopwords=True).split(" ") for x in [answer,expec
    dictionary = Dictionary(temp)
    matrix = [dictionary.doc2bow(doc) for doc in temp]
    # training the LDA model
    num_topics = 20
    ldamodel = LdaModel(matrix, num_topics = num_topics, id2word = dictionary, passes=
    sentence1_topic_distribution = ldamodel[dictionary.doc2bow(temp[0])]
    sentence2_topic_distribution = ldamodel[dictionary.doc2bow(temp[1])]
    similarity = cosine_similarity(sentence1_topic_distribution,sentence2_topic_distri
    return (similarity)
get_similarity_using_lda(answer,expected_answer)
```

Out[8]:

```
0.999981980235745
```

In [9]:

```
def get_similarity_using_lsa(answer,expected_answer):

    documents = [preprocess_text(x,remove_stopwords=True) for x in [answer, expected_a

    # Create the TF-IDF matrix
    tfidf_vectorizer = TfidfVectorizer()
    tfidf_matrix = tfidf_vectorizer.fit_transform(documents)

    # Perform LSA
    lsa = TruncatedSVD(n_components=20)
    doc_topic_matrix = lsa.fit_transform(tfidf_matrix)

    # Measure the similarity between the two documents
    similarity = cosine_similarity(doc_topic_matrix[0].reshape(1,-1), doc_topic_matrix
    return (similarity)
similarity = get_similarity_using_lsa(answer,expected_answer)
similarity
```

Out[9]:

```
array([[0.32546585]])
```

In [10]:

```
df = pd.read_csv('/kaggle/input/answerscript4/p6.csv')
```

In [11]:

```
looper = list(df['essay_set'].unique())

df2=df[['essay_set','domain1_score']]
df2['new_score']=None
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:4: SettingWithCopyWarnin
g:
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/us
er_guide/indexing.html#returning-a-view-versus-a-copy
  after removing the cwd from sys.path.
```

In [12]:
```
df2['score_LDA']=None
df2['score_LSA']=None
df2['score_HDP']=None
df2['score_bert']=None
```

```
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:1: SettingWithCopyWarnin
g:
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/us
er_guide/indexing.html#returning-a-view-versus-a-copy
  """Entry point for launching an IPython kernel.
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:2: SettingWithCopyWarnin
g:
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/us
er_guide/indexing.html#returning-a-view-versus-a-copy

/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:3: SettingWithCopyWarnin
g:
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/us
er_guide/indexing.html#returning-a-view-versus-a-copy
  This is separate from the ipykernel package so we can avoid doing imports until
/opt/conda/lib/python3.7/site-packages/ipykernel_launcher.py:4: SettingWithCopyWarnin
g:
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/us
er_guide/indexing.html#returning-a-view-versus-a-copy
  after removing the cwd from sys.path.
```

In [13]:
```
def scoring(answer_sheet, students_answers, marks_org):
  c=0
  t1=answer_sheet


  data = summarizer(answer_sheet)
  data = data[0]['summary_text']
  t2=data
  embeddings1 = model.encode(data, convert_to_tensor=True)
  t=max(marks_org)
  for enum,i in enumerate(students_answers):
```

```
    embeddings2 = model.encode(i, convert_to_tensor=True)
    cosine_scores = util.cos_sim(embeddings1, embeddings2)
    k=float(t*cosine_scores[0][0])
    df2.at[enum, "new_score"] = k
   # print(i,"-------------------", marks_org[enum], str.format("{0:.2f}", cosine_sco
    print(marks_org[enum],k)
```

In [14]:
```
def scoring5(answer_sheet, students_answers, marks_org):
  c=0
  t1=answer_sheet


  data = summarizer(answer_sheet)
  data = data[0]['summary_text']
  t2=data

  t=max(marks_org)
  for enum,i in enumerate(students_answers):

    k1=get_similarity_using_bert(i,data)
    k=float(t*k1)
    df2.at[enum, "score_bert"] = k
   # print(i,"-------------------", marks_org[enum], str.format("{0:.2f}", cosine_sco
```

In [15]:
```
def scoring2(answer_sheet, students_answers, marks_org):
  data = summarizer(answer_sheet)
  data = data[0]['summary_text']
  embeddings1 = model.encode(data, convert_to_tensor=True)
  t=max(marks_org)
  for enum,i in enumerate(students_answers):
   t1=get_similarity_using_lda(i,data)
   k=float(t*t1)
   df2.at[enum, "score_LDA"] = k
```

In [16]:
```
def scoring3(answer_sheet, students_answers, marks_org):
  data = summarizer(answer_sheet)
  data = data[0]['summary_text']
  embeddings1 = model.encode(data, convert_to_tensor=True)
  t=max(marks_org)
  for enum,i in enumerate(students_answers):
   t1=get_similarity_using_lsa(i,data)
   k=float(t*t1)
   df2.at[enum, "score_LSA"] = k
```

In [17]:
```
def scoring4(answer_sheet, students_answers, marks_org):
  data = summarizer(answer_sheet)
  data = data[0]['summary_text']
  embeddings1 = model.encode(data, convert_to_tensor=True)
  t=max(marks_org)
  for enum,i in enumerate(students_answers):
```

```
    t1=get_similarity_using_HDP(i,data)
    k=float(t*t1)
    df2.at[enum, "score_HDP"] = k
```

In [18]:
```
for i in looper:

     df_ind = df.loc[df['essay_set']==int(i)]

     df_ind = df_ind[['essay','domain1_score']]

     df_ind = df_ind.sort_values(by= ["domain1_score"], ascending=False)

     answer_sheet = df_ind.iloc[0]['essay']

     df_ind = df_ind.drop(0)

     students_answers = list(df['essay'].values)
     marks_org = list(df['domain1_score'].values)

     scoring(answer_sheet, students_answers, marks_org)
     scoring2(answer_sheet, students_answers, marks_org)
     scoring3(answer_sheet, students_answers, marks_org)
     scoring4(answer_sheet, students_answers, marks_org)
     scoring5(answer_sheet, students_answers, marks_org)
```

```
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 3.020883321762085
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 3.021210193634033
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.9007625579833984
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
1.0 2.7580678462982178
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 3.246370553970337
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.283473253250122
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.6427865028381348
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.793245553970337
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 1.8851346969604492
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.835329532623291
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.8703908920288086
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.671797752380371
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.9834229946136475
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.4551596641540527
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.8957455158233643
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.319514036178589
```

```
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
1.0 3.136794328689575
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.946451425552368
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 1.683068037033081
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 3.2576303482055664
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 3.2396750450134277
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.663442850112915
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.902219295501709
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.549217700958252
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 3.313419818878174
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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1.0 1.708545207977295
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4.0 2.283334255218506
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3.0 2.7927803993225098
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2.0 2.9993929862976074
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4.0 2.739980697631836
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4.0 3.118776321411133
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.522526502609253
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
1.0 3.290526866912842
```

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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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1.0 2.9762179851531982
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
1.0 1.4164003133773804
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.380016803741455
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.66430926322937
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 3.3385143280029297
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.7902750968933105
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.0910329818725586
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
4.0 2.9196085929870605
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
3.0 2.859316110610962
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
1.0 1.9689934253692627
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.8014845848083496
```

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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
0.0 1.9634029865264893
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.584564208984375
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
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Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.921578884124756
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
2.0 2.8270797729492188
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
Batches:   0%|          | 0/1 [00:00<?, ?it/s]
```

```
Dictionary(103 unique tokens: ['an', 'and', 'another', 'area', 'at']...)
Dictionary(123 unique tokens: ['a', 'about', 'air', 'airship', 'allowing']...)
Dictionary(114 unique tokens: ['a', 'above', 'add', 'against', 'airships']...)
Dictionary(122 unique tokens: ['', 'a', 'accident', 'after', 'al']...)
Dictionary(104 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(121 unique tokens: ['a', 'added', 'addition', 'advent', 'after']...)
Dictionary(107 unique tokens: ['a', 'above', 'add', 'all', 'allow']...)
Dictionary(109 unique tokens: ['after', 'against', 'airplanes', 'airships', 'allo
w']...)
Dictionary(102 unique tokens: ['', 'a', 'airships', 'and', 'anthore']...)
Dictionary(108 unique tokens: ['a', 'ablaze', 'able', 'all', 'also']...)
Dictionary(153 unique tokens: ['', 'a', 'abandoned', 'account', 'aflame']...)
Dictionary(188 unique tokens: ['', 'a', 'about', 'above', 'accident']...)
Dictionary(134 unique tokens: ['a', 'above', 'accommodate', 'air', 'all']...)
Dictionary(123 unique tokens: ['a', 'after', 'against', 'age', 'air']...)
Dictionary(100 unique tokens: ['a', 'added', 'air', 'allow', 'an']...)
Dictionary(109 unique tokens: ['a', 'against', 'airships', 'also', 'amidon']...)
Dictionary(95 unique tokens: ['', 'a', 'all', 'amidon', 'and']...)
Dictionary(96 unique tokens: ['', 'a', 'actual', 'allowing', 'also']...)
Dictionary(88 unique tokens: ['a', 'against', 'airships', 'and', 'apparent']...)
Dictionary(73 unique tokens: ['accommodate', 'all', 'allow', 'and', 'are']...)
Dictionary(88 unique tokens: ['a', 'according', 'allow', 'an', 'and']...)
Dictionary(140 unique tokens: ['', 'above', 'adds', 'air', 'al']...)
Dictionary(109 unique tokens: ['', 'a', 'able', 'allow', 'also']...)
Dictionary(139 unique tokens: ['a', 'accommodate', 'accompany', 'air', 'airship
s']...)
Dictionary(85 unique tokens: ['', 'a', 'about', 'above', 'actually']...)
Dictionary(122 unique tokens: ['', 'a', 'above', 'age', 'aircraft']...)
Dictionary(136 unique tokens: ['', 'above', 'against', 'air', 'airships']...)
Dictionary(130 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(103 unique tokens: ['a', 'able', 'airships', 'allow', 'allowing']...)
Dictionary(83 unique tokens: ['a', 'add', 'allow', 'also', 'and']...)
Dictionary(113 unique tokens: ['', 'a', 'able', 'add', 'against']...)
Dictionary(122 unique tokens: ['a', 'above', 'add', 'air', 'allowing']...)
Dictionary(75 unique tokens: ['against', 'air', 'airships', 'and', 'another']...)
Dictionary(74 unique tokens: ['accually', 'allow', 'also', 'amount', 'are']...)
Dictionary(136 unique tokens: ['a', 'able', 'accident', 'against', 'airships']...)
Dictionary(111 unique tokens: ['', 'a', 'all', 'alsoif', 'and']...)
Dictionary(100 unique tokens: ['a', 'air', 'airships', 'al', 'amidon']...)
Dictionary(102 unique tokens: ['a', 'accommodate', 'add', 'air', 'airships']...)
Dictionary(107 unique tokens: ['a', 'accident', 'accommodate', 'add', 'addition']...)
Dictionary(83 unique tokens: ['a', 'able', 'air', 'airships', 'allow']...)
Dictionary(88 unique tokens: ['', 'a', 'after', 'all', 'and']...)
Dictionary(91 unique tokens: ['a', 'above', 'add', 'airships', 'also']...)
Dictionary(136 unique tokens: ['', 'a', 'above', 'accident', 'affect']...)
Dictionary(79 unique tokens: ['a', 'all', 'an', 'and', 'another']...)
Dictionary(98 unique tokens: ['a', 'above', 'air', 'allow', 'an']...)
Dictionary(91 unique tokens: ['a', 'against', 'airships', 'allowing', 'also']...)
Dictionary(109 unique tokens: ['a', 'about', 'add', 'all', 'aloft']...)
Dictionary(125 unique tokens: ['a', 'accommodate', 'after', 'against', 'air']...)
Dictionary(137 unique tokens: ['a', 'able', 'above', 'against', 'air']...)
Dictionary(135 unique tokens: ['', 'a', 'about', 'above', 'add']...)
Dictionary(114 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(105 unique tokens: ['', 'a', 'about', 'accident', 'alot']...)
Dictionary(108 unique tokens: ['a', 'above', 'air', 'allow', 'allowing']...)
Dictionary(110 unique tokens: ['a', 'able', 'actual', 'actually', 'add']...)
Dictionary(104 unique tokens: ['a', 'add', 'all', 'allow', 'alot']...)
Dictionary(115 unique tokens: ['a', 'about', 'accustomed', 'all', 'allow']...)
Dictionary(114 unique tokens: ['', 'a', 'adding', 'airships', 'allow']...)
Dictionary(100 unique tokens: ['', 'a', 'above', 'airships', 'al']...)
```

```
Dictionary(128 unique tokens: ['a', 'actual', 'add', 'all', 'allow']...)
Dictionary(83 unique tokens: ['a', 'add', 'air', 'amidon', 'another']...)
Dictionary(119 unique tokens: ['a', 'able', 'about', 'against', 'air']...)
Dictionary(116 unique tokens: ['a', 'able', 'add', 'added', 'aircrafts']...)
Dictionary(146 unique tokens: ['a', 'able', 'above', 'accident', 'add']...)
Dictionary(111 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(123 unique tokens: ['a', 'afraid', 'air', 'allow', 'allowed']...)
Dictionary(88 unique tokens: ['', 'about', 'aircrafts', 'and', 'another']...)
Dictionary(108 unique tokens: ['against', 'air', 'airships', 'also', 'an']...)
Dictionary(54 unique tokens: ['abstacle', 'air', 'building', 'causing', 'constantl
y']...)
Dictionary(132 unique tokens: ['a', 'able', 'above', 'against', 'airships']...)
Dictionary(119 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(135 unique tokens: ['a', 'accident', 'account', 'add', 'air']...)
Dictionary(65 unique tokens: ['a', 'add', 'allowing', 'and', 'be']...)
Dictionary(96 unique tokens: ['a', 'add', 'all', 'allowing', 'also']...)
Dictionary(96 unique tokens: ['a', 'about', 'accident', 'after', 'airships']...)
Dictionary(111 unique tokens: ['a', 'above', 'add', 'air', 'all']...)
Dictionary(103 unique tokens: ['a', 'ancor', 'and', 'another', 'are']...)
Dictionary(85 unique tokens: ['a', 'accident', 'accommodate', 'airships', 'also']...)
Dictionary(67 unique tokens: ['a', 'allow', 'and', 'another', 'area']...)
Dictionary(89 unique tokens: ['a', 'air', 'airships', 'al', 'also']...)
Dictionary(122 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(129 unique tokens: ['a', 'accident', 'afloat', 'airplanes', 'airship
s']...)
Dictionary(99 unique tokens: ['a', 'aircrafts', 'allow', 'also', 'and']...)
Dictionary(112 unique tokens: ['a', 'accident', 'accidents', 'according', 'al']...)
Dictionary(101 unique tokens: ['a', 'able', 'add', 'allow', 'also']...)
Dictionary(114 unique tokens: ['a', 'about', 'again', 'already', 'an']...)
Dictionary(100 unique tokens: ['a', 'after', 'allow', 'also', 'and']...)
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Dictionary(110 unique tokens: ['a', 'above', 'add', 'al', 'all']...)
Dictionary(128 unique tokens: ['', 'a', 'above', 'accommodate', 'adding']...)
Dictionary(104 unique tokens: ['a', 'all', 'allow', 'allowing', 'also']...)
Dictionary(109 unique tokens: ['', 'a', 'able', 'above', 'add']...)
Dictionary(109 unique tokens: ['a', 'add', 'aganist', 'air', 'airships']...)
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Dictionary(75 unique tokens: ['a', 'and', 'back', 'be', 'becacse']...)
Dictionary(101 unique tokens: ['a', 'add', 'after', 'all', 'amidon']...)
Dictionary(78 unique tokens: ['a', 'affect', 'all', 'and', 'another']...)
Dictionary(94 unique tokens: ['a', 'add', 'against', 'air', 'aircraft']...)
Dictionary(85 unique tokens: ['', 'a', 'after', 'all', 'allow']...)
Dictionary(119 unique tokens: ['a', 'accident', 'accommodate', 'allow', 'an']...)
Dictionary(109 unique tokens: ['a', 'add', 'air', 'airships', 'allow']...)
Dictionary(118 unique tokens: ['a', 'accidents', 'allow', 'also', 'amidon']...)
Dictionary(94 unique tokens: ['able', 'above', 'against', 'air', 'airships']...)
Dictionary(96 unique tokens: ['a', 'against', 'airships', 'another', 'any']...)
Dictionary(114 unique tokens: ['a', 'able', 'airships', 'al', 'allow']...)
Dictionary(118 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(66 unique tokens: ['a', 'al', 'and', 'another', 'building']...)
Dictionary(127 unique tokens: ['', 'a', 'added', 'against', 'airships']...)
Dictionary(134 unique tokens: ['a', 'al', 'allow', 'also', 'amidon']...)
Dictionary(140 unique tokens: ['', 'a', 'add', 'against', 'ahead']...)
Dictionary(128 unique tokens: ['a', 'about', 'according', 'against', 'air']...)
Dictionary(114 unique tokens: ['a', 'allow', 'amidon', 'and', 'approach']...)
Dictionary(74 unique tokens: ['against', 'airships', 'an', 'and', 'areas']...)
Dictionary(99 unique tokens: ['a', 'above', 'allow', 'also', 'and']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(111 unique tokens: ['a', 'airplanes', 'al', 'all', 'allow']...)
Dictionary(63 unique tokens: ['a', 'abou', 'also', 'and', 'are']...)
```

```
Dictionary(120 unique tokens: ['', 'a', 'above', 'after', 'airships']...)
Dictionary(108 unique tokens: ['a', 'added', 'air', 'al', 'allow']...)
Dictionary(65 unique tokens: ['able', 'accommadate', 'adds', 'allow', 'also']...)
Dictionary(108 unique tokens: ['', 'a', 'also', 'although', 'and']...)
Dictionary(103 unique tokens: ['', 'a', 'above', 'accident', 'all']...)
Dictionary(84 unique tokens: ['', 'air', 'all', 'allow', 'an']...)
Dictionary(167 unique tokens: ['', 'a', 'above', 'accommodate', 'add']...)
Dictionary(51 unique tokens: ['a', 'add', 'be', 'building', 'but']...)
Dictionary(67 unique tokens: ['air', 'allow', 'and', 'another', 'attempting']...)
Dictionary(107 unique tokens: ['', 'about', 'above', 'allow', 'amidon']...)
Dictionary(117 unique tokens: ['', 'a', 'aircraft', 'also', 'amidon']...)
Dictionary(100 unique tokens: ['a', 'able', 'after', 'airships', 'allow']...)
Dictionary(117 unique tokens: ['a', 'all', 'allow', 'amidon', 'amount']...)
Dictionary(118 unique tokens: ['a', 'add', 'air', 'airships', 'although']...)
Dictionary(104 unique tokens: ['a', 'about', 'allow', 'also', 'and']...)
Dictionary(80 unique tokens: ['a', 'accident', 'add', 'allow', 'an']...)
Dictionary(106 unique tokens: ['', 'a', 'against', 'airships', 'allow']...)
Dictionary(141 unique tokens: ['', 'a', 'accomplished', 'against', 'air']...)
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Dictionary(86 unique tokens: ['accommodating', 'added', 'air', 'also', 'and']...)
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Dictionary(111 unique tokens: ['', 'a', 'able', 'above', 'affected']...)
Dictionary(111 unique tokens: ['a', 'above', 'against', 'airships', 'allowing']...)
Dictionary(127 unique tokens: ['', 'a', 'above', 'accommodate', 'add']...)
Dictionary(63 unique tokens: ['a', 'against', 'also', 'and', 'as']...)
Dictionary(103 unique tokens: ['a', 'above', 'against', 'air', 'aircrafts']...)
Dictionary(115 unique tokens: ['', 'a', 'airships', 'al', 'all']...)
Dictionary(120 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
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Dictionary(105 unique tokens: ['a', 'add', 'added', 'air', 'all']...)
Dictionary(122 unique tokens: ['a', 'above', 'air', 'allow', 'and']...)
Dictionary(119 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(94 unique tokens: ['a', 'above', 'add', 'air', 'allow']...)
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Dictionary(74 unique tokens: ['accommodate', 'add', 'air', 'allow', 'and']...)
Dictionary(154 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(139 unique tokens: ['', 'a', 'airships', 'amidon', 'and']...)
Dictionary(92 unique tokens: ['', 'a', 'across', 'add', 'air']...)
Dictionary(71 unique tokens: ['', 'a', 'able', 'and', 'be']...)
Dictionary(119 unique tokens: ['a', 'accident', 'accommodate', 'according', 'ai
r']...)
Dictionary(118 unique tokens: ['a', 'about', 'add', 'air', 'an']...)
Dictionary(159 unique tokens: ['a', 'above', 'add', 'addition', 'aforementioned']...)
Dictionary(108 unique tokens: ['', 'a', 'abandoned', 'add', 'air']...)
Dictionary(91 unique tokens: ['a', 'all', 'allow', 'also', 'and']...)
Dictionary(94 unique tokens: ['a', 'across', 'actually', 'amidon', 'and']...)
Dictionary(141 unique tokens: ['a', 'able', 'add', 'against', 'agianst']...)
Dictionary(99 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(129 unique tokens: ['a', 'addition', 'against', 'air', 'airships']...)
Dictionary(112 unique tokens: ['a', 'about', 'add', 'al', 'all']...)
Dictionary(122 unique tokens: ['a', 'about', 'add', 'against', 'airships']...)
```

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Dictionary(151 unique tokens: ['', 'a', 'about', 'account', 'against']...)
Dictionary(49 unique tokens: ['accidents', 'air', 'allow', 'areas', 'attempting']...)
Dictionary(131 unique tokens: ['a', 'able', 'above', 'accident', 'against']...)
Dictionary(101 unique tokens: ['a', 'accommodate', 'air', 'all', 'allow']...)
Dictionary(60 unique tokens: ['a', 'air', 'all', 'also', 'and']...)
Dictionary(91 unique tokens: ['', 'a', 'age', 'and', 'archietects']...)
Dictionary(103 unique tokens: ['a', 'accommodate', 'against', 'air', 'airships']...)
Dictionary(55 unique tokens: ['airships', 'allow', 'altitudes', 'an', 'and']...)
Dictionary(39 unique tokens: ['and', 'beatful', 'big', 'building', 'the']...)
Dictionary(83 unique tokens: ['a', 'add', 'also', 'and', 'another']...)
Dictionary(124 unique tokens: ['a', 'about', 'above', 'accident', 'according']...)
Dictionary(89 unique tokens: ['', 'a', 'airships', 'allow', 'allowed']...)
Dictionary(117 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(135 unique tokens: ['', 'a', 'about', 'air', 'also']...)
Dictionary(108 unique tokens: ['a', 'above', 'accident', 'add', 'air']...)
Dictionary(93 unique tokens: ['a', 'accomadate', 'airships', 'allowing', 'also']...)
Dictionary(71 unique tokens: ['a', 'all', 'and', 'as', 'be']...)
Dictionary(124 unique tokens: ['a', 'able', 'accomplish', 'add', 'added']...)
Dictionary(112 unique tokens: ['a', 'able', 'add', 'against', 'airship']...)
Dictionary(80 unique tokens: ['', 'accident', 'after', 'airplanes', 'allow']...)
Dictionary(122 unique tokens: ['a', 'able', 'above', 'accident', 'accomplish']...)
Dictionary(124 unique tokens: ['a', 'already', 'also', 'and', 'angeles']...)
Dictionary(125 unique tokens: ['a', 'accommodate', 'according', 'all', 'allow']...)
Dictionary(121 unique tokens: ['a', 'against', 'air', 'airships', 'allowed']...)
Dictionary(115 unique tokens: ['a', 'accommodate', 'against', 'air', 'airships']...)
Dictionary(147 unique tokens: ['a', 'about', 'above', 'affected', 'against']...)
Dictionary(105 unique tokens: ['a', 'added', 'allow', 'along', 'although']...)
Dictionary(113 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(99 unique tokens: ['a', 'against', 'air', 'airships', 'and']...)
Dictionary(111 unique tokens: ['a', 'accident', 'according', 'against', 'air']...)
Dictionary(88 unique tokens: ['a', 'added', 'allow', 'an', 'anchor']...)
Dictionary(110 unique tokens: ['a', 'about', 'al', 'all', 'also']...)
Dictionary(82 unique tokens: ['a', 'about', 'allow', 'also', 'and']...)
Dictionary(136 unique tokens: ['a', 'able', 'after', 'against', 'airships']...)
Dictionary(111 unique tokens: ['', 'above', 'add', 'against', 'air']...)
Dictionary(102 unique tokens: ['a', 'above', 'across', 'add', 'against']...)
Dictionary(88 unique tokens: ['against', 'airship', 'airships', 'allow', 'amido
n']...)
Dictionary(120 unique tokens: ['', 'a', 'ability', 'against', 'air']...)
Dictionary(126 unique tokens: ['a', 'able', 'absolute', 'add', 'adding']...)
Dictionary(95 unique tokens: ['about', 'allow', 'also', 'and', 'architects']...)
Dictionary(114 unique tokens: ['about', 'against', 'air', 'airships', 'allow']...)
Dictionary(105 unique tokens: ['a', 'able', 'all', 'allow', 'alot']...)
Dictionary(95 unique tokens: ['a', 'above', 'add', 'air', 'all']...)
Dictionary(128 unique tokens: ['a', 'above', 'accident', 'airships', 'al']...)
Dictionary(146 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(83 unique tokens: ['', 'a', 'after', 'and', 'another']...)
Dictionary(95 unique tokens: ['a', 'above', 'added', 'allowing', 'also']...)
Dictionary(80 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(68 unique tokens: ['a', 'advanced', 'and', 'as', 'back']...)
Dictionary(109 unique tokens: ['', 'a', 'accident', 'addressed', 'against']...)
Dictionary(101 unique tokens: ['a', 'again', 'air', 'also', 'and']...)
Dictionary(123 unique tokens: ['a', 'above', 'accident', 'against', 'airships']...)
Dictionary(90 unique tokens: ['a', 'about', 'air', 'airship', 'allow']...)
Dictionary(130 unique tokens: ['a', 'above', 'airships', 'allow', 'although']...)
Dictionary(146 unique tokens: ['a', 'above', 'after', 'airships', 'all']...)
Dictionary(108 unique tokens: ['a', 'airships', 'allow', 'america', 'amidon']...)
Dictionary(88 unique tokens: ['a', 'airships', 'allow', 'also', 'an']...)
Dictionary(95 unique tokens: ['a', 'add', 'air', 'allow', 'and']...)
Dictionary(82 unique tokens: ['a', 'about', 'accidents', 'after', 'airwaves']...)
```

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Dictionary(139 unique tokens: ['', 'a', 'above', 'added', 'afloat']...)
Dictionary(137 unique tokens: ['able', 'accommodate', 'after', 'airships', 'all']...)
Dictionary(101 unique tokens: ['a', 'actual', 'add', 'airships', 'all']...)
Dictionary(98 unique tokens: ['a', 'allow', 'and', 'another', 'area']...)
Dictionary(97 unique tokens: ['a', 'air', 'aircrafts', 'allow', 'always']...)
Dictionary(139 unique tokens: ['a', 'about', 'above', 'add', 'added']...)
Dictionary(150 unique tokens: ['a', 'about', 'against', 'airships', 'all']...)
Dictionary(79 unique tokens: ['a', 'about', 'aircraft', 'and', 'are']...)
Dictionary(118 unique tokens: ['a', 'able', 'accident', 'airships', 'al']...)
Dictionary(90 unique tokens: ['a', 'air', 'airships', 'al', 'allow']...)
Dictionary(69 unique tokens: ['about', 'also', 'and', 'are', 'back']...)
Dictionary(118 unique tokens: ['a', 'able', 'air', 'allow', 'and']...)
Dictionary(86 unique tokens: ['a', 'against', 'airships', 'allow', 'an']...)
Dictionary(125 unique tokens: ['', 'a', 'ability', 'above', 'accident']...)
Dictionary(122 unique tokens: ['', 'a', 'after', 'al', 'and']...)
Dictionary(139 unique tokens: ['', 'a', 'accident', 'add', 'air']...)
Dictionary(79 unique tokens: ['', 'a', 'add', 'all', 'allow']...)
Dictionary(169 unique tokens: ['a', 'against', 'air', 'airships', 'allw']...)
Dictionary(62 unique tokens: ['a', 'also', 'an', 'any', 'building']...)
Dictionary(81 unique tokens: ['a', 'able', 'add', 'allow', 'amidon']...)
Dictionary(103 unique tokens: ['', 'a', 'account', 'allow', 'also']...)
Dictionary(133 unique tokens: ['', 'a', 'above', 'accident', 'accidents']...)
Dictionary(100 unique tokens: ['a', 'all', 'and', 'are', 'around']...)
Dictionary(87 unique tokens: ['a', 'accommodate', 'according', 'all', 'allow']...)
Dictionary(116 unique tokens: ['a', 'accident', 'air', 'allow', 'also']...)
Dictionary(106 unique tokens: ['', 'a', 'air', 'allowing', 'an']...)
Dictionary(139 unique tokens: ['a', 'abandoned', 'actually', 'airship', 'airship
s']...)
Dictionary(78 unique tokens: ['a', 'allow', 'also', 'and', 'architects']...)
Dictionary(50 unique tokens: ['', 'a', 'also', 'attempting', 'be']...)
Dictionary(150 unique tokens: ['a', 'about', 'accident', 'against', 'airships']...)
Dictionary(93 unique tokens: ['a', 'against', 'air', 'airships', 'al']...)
Dictionary(107 unique tokens: ['a', 'above', 'actually', 'air', 'allow']...)
Dictionary(108 unique tokens: ['a', 'above', 'accident', 'also', 'although']...)
Dictionary(130 unique tokens: ['a', 'accident', 'across', 'against', 'airships']...)
Dictionary(116 unique tokens: ['a', 'against', 'airships', 'an', 'and']...)
Dictionary(124 unique tokens: ['', 'a', 'above', 'accedent', 'against']...)
Dictionary(97 unique tokens: ['a', 'actually', 'air', 'aircraft', 'allow']...)
Dictionary(140 unique tokens: ['', 'a', 'against', 'age', 'air']...)
Dictionary(120 unique tokens: ['', 'a', 'above', 'accident', 'al']...)
Dictionary(103 unique tokens: ['a', 'against', 'airships', 'also', 'and']...)
Dictionary(113 unique tokens: ['', 'a', 'allowing', 'and', 'another']...)
Dictionary(107 unique tokens: ['a', 'after', 'al', 'all', 'and']...)
Dictionary(96 unique tokens: ['a', 'able', 'al', 'all', 'along']...)
Dictionary(109 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(73 unique tokens: ['a', 'allow', 'also', 'another', 'attempting']...)
Dictionary(43 unique tokens: ['builders', 'building', 'dont', 'down', 'empire']...)
Dictionary(67 unique tokens: ['and', 'another', 'be', 'because', 'blimps']...)
Dictionary(102 unique tokens: ['a', 'about', 'air', 'allow', 'and']...)
Dictionary(94 unique tokens: ['a', 'all', 'allow', 'and', 'are']...)
Dictionary(79 unique tokens: ['a', 'add', 'an', 'and', 'architects']...)
Dictionary(91 unique tokens: ['', 'a', 'add', 'airships', 'al']...)
Dictionary(89 unique tokens: ['', 'a', 'amount', 'an', 'and']...)
Dictionary(94 unique tokens: ['about', 'accident', 'air', 'and', 'another']...)
Dictionary(124 unique tokens: ['a', 'above', 'accident', 'after', 'against']...)
Dictionary(109 unique tokens: ['a', 'accommodate', 'achieve', 'also', 'and']...)
Dictionary(113 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(122 unique tokens: ['', 'a', 'able', 'above', 'against']...)
Dictionary(113 unique tokens: ['a', 'about', 'above', 'air', 'airships']...)
Dictionary(45 unique tokens: ['atach', 'build', 'builders', 'building', 'caps']...)
```

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Dictionary(133 unique tokens: ['a', 'add', 'afraid', 'agaist', 'air']...)
Dictionary(109 unique tokens: ['a', 'add', 'allow', 'also', 'and']...)
Dictionary(81 unique tokens: ['a', 'and', 'another', 'architechs', 'architects']...)
Dictionary(118 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(88 unique tokens: ['a', 'all', 'and', 'areas', 'around']...)
Dictionary(106 unique tokens: ['a', 'airships', 'all', 'and', 'arm']...)
Dictionary(94 unique tokens: ['a', 'according', 'add', 'all', 'also']...)
Dictionary(73 unique tokens: ['a', 'all', 'also', 'and', 'builders']...)
Dictionary(93 unique tokens: ['a', 'accommodate', 'acomidate', 'air', 'allow']...)
Dictionary(125 unique tokens: ['a', 'above', 'accident', 'against', 'air']...)
Dictionary(146 unique tokens: ['a', 'actually', 'add', 'air', 'all']...)
Dictionary(127 unique tokens: ['a', 'air', 'aircraft', 'allowing', 'already']...)
Dictionary(130 unique tokens: ['a', 'air', 'airships', 'all', 'amidon']...)
Dictionary(65 unique tokens: ['against', 'airships', 'allow', 'also', 'another']...)
Dictionary(45 unique tokens: ['around', 'baloons', 'being', 'blowing', 'buildin
g']...)
Dictionary(114 unique tokens: ['a', 'accident', 'accidents', 'after', 'air']...)
Dictionary(84 unique tokens: ['a', 'acording', 'across', 'additional', 'air']...)
Dictionary(101 unique tokens: ['', 'a', 'after', 'airships', 'allow']...)
Dictionary(127 unique tokens: ['', 'a', 'accident', 'against', 'airships']...)
Dictionary(86 unique tokens: ['a', 'allow', 'also', 'and', 'as']...)
Dictionary(96 unique tokens: ['a', 'add', 'air', 'allow', 'and']...)
Dictionary(92 unique tokens: ['a', 'above', 'against', 'al', 'although']...)
Dictionary(81 unique tokens: ['a', 'above', 'accident', 'airship', 'airships']...)
Dictionary(110 unique tokens: ['a', 'addition', 'adjustments', 'ahead', 'and']...)
Dictionary(157 unique tokens: ['', 'a', 'according', 'against', 'air']...)
Dictionary(114 unique tokens: ['+', 'a', 'able', 'after', 'air']...)
Dictionary(118 unique tokens: ['', 'a', 'able', 'about', 'adding']...)
Dictionary(114 unique tokens: ['', 'a', 'accessible', 'added', 'aircraft']...)
Dictionary(117 unique tokens: ['a', 'able', 'air', 'allow', 'also']...)
Dictionary(102 unique tokens: ['a', 'above', 'accident', 'add', 'allow']...)
Dictionary(130 unique tokens: ['a', 'able', 'all', 'amidon', 'and']...)
Dictionary(121 unique tokens: ['a', 'above', 'add', 'affected', 'air']...)
Dictionary(139 unique tokens: ['a', 'according', 'air', 'airships', 'all']...)
Dictionary(104 unique tokens: ['a', 'add', 'air', 'all', 'allow']...)
Dictionary(125 unique tokens: ['', 'a', 'above', 'accident', 'accommodate']...)
Dictionary(108 unique tokens: ['a', 'all', 'allowing', 'and', 'architects']...)
Dictionary(95 unique tokens: ['a', 'above', 'air', 'also', 'american']...)
Dictionary(119 unique tokens: ['a', 'add', 'against', 'air', 'airplanes']...)
Dictionary(91 unique tokens: ['', 'a', 'above', 'airships', 'all']...)
Dictionary(149 unique tokens: ['a', 'above', 'activity', 'adapt', 'adapting']...)
Dictionary(121 unique tokens: ['', 'a', 'after', 'air', 'airplanes']...)
Dictionary(137 unique tokens: ['', 'a', 'accident', 'air', 'airship']...)
Dictionary(150 unique tokens: ['', 'a', 'above', 'accident', 'affect']...)
Dictionary(106 unique tokens: ['a', 'about', 'all', 'allow', 'an']...)
Dictionary(108 unique tokens: ['', 'a', 'above', 'add', 'against']...)
Dictionary(117 unique tokens: ['', 'acomplish', 'against', 'air', 'airships']...)
Dictionary(132 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(123 unique tokens: ['', 'a', 'accident', 'affected', 'allow']...)
Dictionary(116 unique tokens: ['', 'a', 'accommodate', 'add', 'air']...)
Dictionary(135 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(116 unique tokens: ['a', 'al', 'allow', 'amount', 'and']...)
Dictionary(83 unique tokens: ['a', 'air', 'allow', 'and', 'anything']...)
Dictionary(132 unique tokens: ['a', 'account', 'alas', 'albeit', 'alone']...)
Dictionary(132 unique tokens: ['a', 'about', 'add', 'all', 'allow']...)
Dictionary(134 unique tokens: ['', 'a', 'add', 'aesthetically', 'after']...)
Dictionary(142 unique tokens: ['a', 'abolished', 'add', 'after', 'against']...)
Dictionary(94 unique tokens: ['a', 'accommodate', 'all', 'also', 'and']...)
Dictionary(117 unique tokens: ['a', 'air', 'al', 'also', 'ambitious']...)
Dictionary(66 unique tokens: ['a', 'and', 'at', 'both', 'build']...)
```

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Dictionary(129 unique tokens: ['a', 'act', 'aircraft', 'allow', 'allowing']...)
Dictionary(103 unique tokens: ['a', 'able', 'about', 'all', 'almost']...)
Dictionary(77 unique tokens: ['a', 'about', 'accident', 'alot', 'and']...)
Dictionary(120 unique tokens: ['a', 'able', 'airships', 'al', 'all']...)
Dictionary(125 unique tokens: ['a', 'able', 'airships', 'also', 'and']...)
Dictionary(103 unique tokens: ['a', 'against', 'airship', 'airships', 'all']...)
Dictionary(99 unique tokens: ['a', 'able', 'after', 'allowing', 'amounts']...)
Dictionary(66 unique tokens: ['a', 'about', 'and', 'are', 'as']...)
Dictionary(76 unique tokens: ['air', 'allow', 'and', 'around', 'attempting']...)
Dictionary(85 unique tokens: ['a', 'added', 'al', 'allow', 'an']...)
Dictionary(109 unique tokens: ['a', 'above', 'accident', 'air', 'allowing']...)
Dictionary(100 unique tokens: ['a', 'above', 'allow', 'an', 'as']...)
Dictionary(112 unique tokens: ['', 'a', 'above', 'added', 'against']...)
Dictionary(119 unique tokens: ['', 'accident', 'air', 'allow', 'an']...)
Dictionary(117 unique tokens: ['a', 'after', 'against', 'airships', 'also']...)
Dictionary(68 unique tokens: ['a', 'allow', 'anouther', 'approach', 'area']...)
Dictionary(87 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(160 unique tokens: ['a', 'air', 'airship', 'airships', 'allow']...)
Dictionary(88 unique tokens: ['a', 'able', 'after', 'and', 'another']...)
Dictionary(121 unique tokens: ['a', 'add', 'addition', 'against', 'airships']...)
Dictionary(80 unique tokens: ['', 'a', 'about', 'against', 'air']...)
Dictionary(83 unique tokens: ['above', 'allow', 'also', 'amidon', 'and']...)
Dictionary(109 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(113 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(109 unique tokens: ['a', 'airships', 'all', 'also', 'and']...)
Dictionary(115 unique tokens: ['', 'a', 'above', 'addition', 'adressed']...)
Dictionary(68 unique tokens: ['', 'a', 'allow', 'also', 'and']...)
Dictionary(104 unique tokens: ['a', 'accommodate', 'air', 'allow', 'and']...)
Dictionary(77 unique tokens: ['a', 'about', 'and', 'architects', 'at']...)
Dictionary(133 unique tokens: ['a', 'able', 'addition', 'again', 'against']...)
Dictionary(89 unique tokens: ['a', 'above', 'accident', 'air', 'allowing']...)
Dictionary(68 unique tokens: ['a', 'against', 'airship', 'an', 'and']...)
Dictionary(77 unique tokens: ['a', 'able', 'add', 'allow', 'also']...)
Dictionary(109 unique tokens: ['a', 'able', 'accident', 'aeras', 'airships']...)
Dictionary(119 unique tokens: ['a', 'about', 'add', 'airships', 'allow']...)
Dictionary(89 unique tokens: ['a', 'able', 'adds', 'altitude', 'an']...)
Dictionary(132 unique tokens: ['a', 'according', 'after', 'against', 'air']...)
Dictionary(123 unique tokens: ['a', 'airships', 'al', 'allow', 'amidon']...)
Dictionary(89 unique tokens: ['a', 'age', 'air', 'al', 'allow']...)
Dictionary(147 unique tokens: ['a', 'above', 'accommodate', 'add', 'adding']...)
Dictionary(124 unique tokens: ['', 'a', 'about', 'above', 'accident']...)
Dictionary(121 unique tokens: ['a', 'about', 'add', 'adding', 'addition']...)
Dictionary(131 unique tokens: ['', 'a', 'according', 'aircraft', 'all']...)
Dictionary(81 unique tokens: ['', 'a', 'allow', 'and', 'another']...)
Dictionary(127 unique tokens: ['a', 'add', 'airdock', 'al', 'also']...)
Dictionary(101 unique tokens: ['a', 'adding', 'allow', 'an', 'and']...)
Dictionary(95 unique tokens: ['a', 'all', 'allow', 'amidon', 'and']...)
Dictionary(122 unique tokens: ['', 'a', 'against', 'airships', 'all']...)
Dictionary(144 unique tokens: ['', 'a', 'able', 'above', 'accident']...)
Dictionary(92 unique tokens: ['a', 'above', 'addition', 'against', 'air']...)
Dictionary(104 unique tokens: ['a', 'account', 'against', 'airships', 'allowed']...)
Dictionary(94 unique tokens: ['a', 'able', 'about', 'and', 'another']...)
Dictionary(55 unique tokens: ['also', 'and', 'basicly', 'builders', 'caps']...)
Dictionary(132 unique tokens: ['', 'a', 'add', 'against', 'airships']...)
Dictionary(74 unique tokens: ['a', 'and', 'be', 'being', 'blimp']...)
Dictionary(125 unique tokens: ['a', 'accident', 'after', 'aircraft', 'allow']...)
Dictionary(135 unique tokens: ['a', 'after', 'allowed', 'amount', 'an']...)
Dictionary(124 unique tokens: ['a', 'afloat', 'airplanes', 'airships', 'and']...)
Dictionary(120 unique tokens: ['', 'a', 'add', 'against', 'air']...)
Dictionary(64 unique tokens: ['', 'air', 'allow', 'an', 'as']...)
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Dictionary(118 unique tokens: ['a', 'add', 'after', 'air', 'allow']...)
Dictionary(105 unique tokens: ['a', 'allow', 'also', 'and', 'another']...)
Dictionary(126 unique tokens: ['a', 'about', 'airships', 'allow', 'also']...)
Dictionary(138 unique tokens: ['a', 'above', 'add', 'air', 'al']...)
Dictionary(125 unique tokens: ['a', 'about', 'above', 'accident', 'after']...)
Dictionary(106 unique tokens: ['a', 'able', 'after', 'air', 'airships']...)
Dictionary(108 unique tokens: ['', 'a', 'about', 'above', 'accident']...)
Dictionary(120 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(81 unique tokens: ['', 'a', 'above', 'accident', 'and']...)
Dictionary(89 unique tokens: ['a', 'accessable', 'air', 'already', 'also']...)
Dictionary(133 unique tokens: ['a', 'add', 'adding', 'after', 'allow']...)
Dictionary(112 unique tokens: ['a', 'actually', 'add', 'against', 'air']...)
Dictionary(65 unique tokens: ['a', 'al', 'allow', 'anchor', 'area']...)
Dictionary(123 unique tokens: ['a', 'add', 'air', 'allowing', 'altering']...)
Dictionary(78 unique tokens: ['', 'a', 'also', 'an', 'are']...)
Dictionary(89 unique tokens: ['', 'a', 'aircraft', 'all', 'allow']...)
Dictionary(107 unique tokens: ['a', 'air', 'allow', 'and', 'are']...)
Dictionary(100 unique tokens: ['a', 'add', 'against', 'air', 'al']...)
Dictionary(115 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(136 unique tokens: ['', 'a', 'accommodate', 'add', 'all']...)
Dictionary(93 unique tokens: ['a', 'air', 'all', 'allow', 'although']...)
Dictionary(137 unique tokens: ['a', 'additional', 'adjust', 'after', 'aircraft']...)
Dictionary(56 unique tokens: ['a', 'air', 'at', 'building', 'could']...)
Dictionary(67 unique tokens: ['a', 'and', 'architects', 'are', 'around']...)
Dictionary(96 unique tokens: ['a', 'able', 'and', 'atop', 'attempted']...)
Dictionary(77 unique tokens: ['airships', 'allow', 'although', 'and', 'another']...)
Dictionary(95 unique tokens: ['a', 'aircraft', 'allow', 'also', 'anothe']...)
Dictionary(152 unique tokens: ['a', 'above', 'accident', 'accommodate', 'add']...)
Dictionary(98 unique tokens: ['a', 'add', 'air', 'allow', 'and']...)
Dictionary(91 unique tokens: ['a', 'add', 'added', 'after', 'allow']...)
Dictionary(135 unique tokens: ['', 'a', 'above', 'accident', 'actual']...)
Dictionary(137 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(77 unique tokens: ['a', 'above', 'add', 'all', 'allow']...)
Dictionary(98 unique tokens: ['a', 'across', 'adding', 'air', 'airship']...)
Dictionary(91 unique tokens: ['a', 'about', 'accomplish', 'allow', 'also']...)
Dictionary(103 unique tokens: ['', 'a', 'airships', 'allow', 'also']...)
Dictionary(127 unique tokens: ['a', 'against', 'air', 'airships', 'and']...)
Dictionary(87 unique tokens: ['a', 'add', 'air', 'allow', 'an']...)
Dictionary(134 unique tokens: ['', 'a', 'above', 'actually', 'after']...)
Dictionary(142 unique tokens: ['a', 'accomadate', 'action', 'add', 'added']...)
Dictionary(103 unique tokens: ['a', 'against', 'airships', 'also', 'and']...)
Dictionary(100 unique tokens: ['a', 'agaist', 'air', 'airships', 'allow']...)
Dictionary(66 unique tokens: ['air', 'amidon', 'and', 'another', 'around']...)
Dictionary(115 unique tokens: ['', 'a', 'account', 'air', 'allow']...)
Dictionary(71 unique tokens: ['', 'a', 'accommodate', 'allow', 'and']...)
Dictionary(149 unique tokens: ['a', 'about', 'above', 'accident', 'add']...)
Dictionary(71 unique tokens: ['a', 'air', 'allow', 'and', 'another']...)
Dictionary(90 unique tokens: ['a', 'add', 'allow', 'amidon', 'and']...)
Dictionary(104 unique tokens: ['a', 'able', 'airship', 'allow', 'also']...)
Dictionary(96 unique tokens: ['a', 'add', 'air', 'allow', 'another']...)
Dictionary(136 unique tokens: ['', 'achieved', 'affect', 'against', 'air']...)
Dictionary(78 unique tokens: ['a', 'above', 'air', 'airships', 'all']...)
Dictionary(84 unique tokens: ['', 'a', 'an', 'and', 'another']...)
Dictionary(86 unique tokens: ['a', 'able', 'add', 'al', 'allow']...)
Dictionary(147 unique tokens: ['a', 'accident', 'according', 'add', 'addressed']...)
Dictionary(122 unique tokens: ['a', 'above', 'accident', 'all', 'allow']...)
Dictionary(140 unique tokens: ['', 'a', 'above', 'accident', 'addition']...)
Dictionary(120 unique tokens: ['a', 'able', 'according', 'add', 'air']...)
Dictionary(79 unique tokens: ['add', 'after', 'all', 'and', 'another']...)
Dictionary(124 unique tokens: ['', 'a', 'above', 'all', 'allow']...)
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Dictionary(132 unique tokens: ['', 'a', 'airships', 'al', 'amazing']...)
Dictionary(94 unique tokens: ['a', 'able', 'above', 'add', 'air']...)
Dictionary(157 unique tokens: ['a', 'accommodating', 'add', 'airships', 'al']...)
Dictionary(105 unique tokens: ['a', 'according', 'air', 'airships', 'and']...)
Dictionary(139 unique tokens: ['a', 'above', 'accident', 'account', 'against']...)
Dictionary(99 unique tokens: ['a', 'allow', 'also', 'always', 'and']...)
Dictionary(104 unique tokens: ['a', 'above', 'airships', 'allowed', 'allowing']...)
Dictionary(122 unique tokens: ['', 'a', 'against', 'airships', 'altitudes']...)
Dictionary(98 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(141 unique tokens: ['a', 'accident', 'account', 'against', 'all']...)
Dictionary(104 unique tokens: ['a', 'air', 'all', 'and', 'another']...)
Dictionary(112 unique tokens: ['', 'a', 'about', 'anymore', 'anyways']...)
Dictionary(175 unique tokens: ['a', 'above', 'accident', 'air', 'airships']...)
Dictionary(57 unique tokens: ['a', 'also', 'because', 'blimps', 'body']...)
Dictionary(133 unique tokens: ['a', 'add', 'against', 'airships', 'allow']...)
Dictionary(145 unique tokens: ['', 'a', 'able', 'about', 'above']...)
Dictionary(119 unique tokens: ['a', 'achieve', 'add', 'addition', 'also']...)
Dictionary(110 unique tokens: ['a', 'above', 'add', 'all', 'allow']...)
Dictionary(86 unique tokens: ['a', 'add', 'all', 'allow', 'alot']...)
Dictionary(83 unique tokens: ['', 'a', 'all', 'allow', 'an']...)
Dictionary(128 unique tokens: ['a', 'above', 'accident', 'after', 'air']...)
Dictionary(124 unique tokens: ['a', 'above', 'actual', 'airships', 'allow']...)
Dictionary(106 unique tokens: ['', 'a', 'afew', 'al', 'always']...)
Dictionary(129 unique tokens: ['a', 'against', 'air', 'airships', 'also']...)
Dictionary(144 unique tokens: ['a', 'against', 'airship', 'airships', 'although']...)
Dictionary(132 unique tokens: ['', 'about', 'accidents', 'against', 'airship']...)
Dictionary(102 unique tokens: ['a', 'against', 'airships', 'allow', 'amount']...)
Dictionary(106 unique tokens: ['', 'a', 'able', 'after', 'al']...)
Dictionary(138 unique tokens: ['a', 'account', 'actual', 'added', 'air']...)
Dictionary(110 unique tokens: ['a', 'above', 'accident', 'after', 'air']...)
Dictionary(96 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(130 unique tokens: ['a', 'accident', 'aircrafts', 'airships', 'al']...)
Dictionary(76 unique tokens: ['a', 'air', 'all', 'as', 'be']...)
Dictionary(95 unique tokens: ['', 'a', 'also', 'an', 'and']...)
Dictionary(103 unique tokens: ['a', 'accident', 'add', 'allow', 'also']...)
Dictionary(118 unique tokens: ['', 'a', 'accident', 'add', 'all']...)
Dictionary(107 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(70 unique tokens: ['and', 'apparent', 'been', 'before', 'building']...)
Dictionary(115 unique tokens: ['a', 'accommodate', 'add', 'added', 'air']...)
Dictionary(120 unique tokens: ['a', 'able', 'against', 'air', 'airships']...)
Dictionary(95 unique tokens: ['air', 'all', 'allowed', 'almost', 'and']...)
Dictionary(124 unique tokens: ['', 'a', 'air', 'also', 'although']...)
Dictionary(107 unique tokens: ['a', 'added', 'also', 'altogether', 'and']...)
Dictionary(109 unique tokens: ['a', 'all', 'also', 'and', 'another']...)
Dictionary(78 unique tokens: ['a', 'all', 'allow', 'also', 'an']...)
Dictionary(130 unique tokens: ['a', 'affected', 'again', 'against', 'air']...)
Dictionary(103 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(122 unique tokens: ['a', 'accomplishedwhen', 'add', 'afloat', 'after']...)
Dictionary(128 unique tokens: ['a', 'according', 'addition', 'air', 'airships']...)
Dictionary(93 unique tokens: ['a', 'adding', 'allow', 'and', 'another']...)
Dictionary(108 unique tokens: ['a', 'about', 'above', 'accident', 'account']...)
Dictionary(101 unique tokens: ['a', 'added', 'air', 'allow', 'an']...)
Dictionary(116 unique tokens: ['', 'a', 'accident', 'add', 'airships']...)
Dictionary(103 unique tokens: ['a', 'added', 'after', 'airship', 'al']...)
Dictionary(121 unique tokens: ['a', 'above', 'add', 'added', 'airships']...)
Dictionary(103 unique tokens: ['a', 'actual', 'against', 'aircraft', 'airships']...)
Dictionary(75 unique tokens: ['a', 'add', 'allow', 'also', 'and']...)
Dictionary(62 unique tokens: ['also', 'and', 'be', 'biggest', 'builders']...)
Dictionary(106 unique tokens: ['+', 'add', 'added', 'afloat', 'aircrafts']...)
Dictionary(116 unique tokens: ['a', 'accident', 'according', 'allow', 'allowing']...)
```

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Dictionary(110 unique tokens: ['', 'a', 'added', 'against', 'airships']...)
Dictionary(107 unique tokens: ['a', 'across', 'airships', 'and', 'another']...)
Dictionary(118 unique tokens: ['a', 'al', 'all', 'allow', 'allowing']...)
Dictionary(119 unique tokens: ['a', 'above', 'accommodate', 'add', 'al']...)
Dictionary(99 unique tokens: ['a', 'accommodate', 'airships', 'allow', 'also']...)
Dictionary(57 unique tokens: ['and', 'architects', 'as', 'building', 'caps']...)
Dictionary(119 unique tokens: ['', 'a', 'accommodate', 'all', 'allow']...)
Dictionary(149 unique tokens: ['a', 'able', 'according', 'actual', 'against']...)
Dictionary(102 unique tokens: ['', 'a', 'about', 'across', 'affect']...)
Dictionary(112 unique tokens: ['', 'a', 'according', 'against', 'air']...)
Dictionary(124 unique tokens: ['', 'a', 'above', 'accident', 'al']...)
Dictionary(65 unique tokens: ['a', 'able', 'add', 'allow', 'and']...)
Dictionary(92 unique tokens: ['a', 'add', 'airships', 'allow', 'and']...)
Dictionary(124 unique tokens: ['a', 'add', 'against', 'aircraft', 'aircrafts']...)
Dictionary(105 unique tokens: ['a', 'against', 'air', 'airships', 'an']...)
Dictionary(98 unique tokens: ['a', 'allowed', 'and', 'as', 'at']...)
Dictionary(129 unique tokens: ['a', 'about', 'accident', 'against', 'air']...)
Dictionary(111 unique tokens: ['a', 'above', 'actually', 'additionally', 'addres
s']...)
Dictionary(127 unique tokens: ['a', 'accident', 'accomplished', 'against', 'air']...)
Dictionary(125 unique tokens: ['', 'a', 'add', 'airships', 'al']...)
Dictionary(46 unique tokens: ['a', 'about', 'airship', 'alot', 'caps']...)
Dictionary(105 unique tokens: ['', 'a', 'al', 'allow', 'and']...)
Dictionary(103 unique tokens: ['a', 'add', 'air', 'airships', 'allow']...)
Dictionary(149 unique tokens: ['', 'a', 'add', 'all', 'allowing']...)
Dictionary(64 unique tokens: ['all', 'and', 'be', 'because', 'been']...)
Dictionary(102 unique tokens: ['', 'a', 'according', 'added', 'also']...)
Dictionary(108 unique tokens: ['a', 'air', 'also', 'always', 'and']...)
Dictionary(105 unique tokens: ['a', 'after', 'against', 'airships', 'allow']...)
Dictionary(151 unique tokens: ['a', 'above', 'added', 'aircraft', 'al']...)
Dictionary(108 unique tokens: ['', 'a', 'accident', 'air', 'airship']...)
Dictionary(145 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
Dictionary(138 unique tokens: ['', 'a', 'accident', 'add', 'air']...)
Dictionary(134 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(105 unique tokens: ['a', 'air', 'also', 'and', 'around']...)
Dictionary(100 unique tokens: ['a', 'aircraft', 'allow', 'an', 'and']...)
Dictionary(90 unique tokens: ['a', 'add', 'air', 'allowed', 'and']...)
Dictionary(90 unique tokens: ['a', 'able', 'al', 'allow', 'attempting']...)
Dictionary(95 unique tokens: ['a', 'al', 'all', 'allowable', 'alot']...)
Dictionary(127 unique tokens: ['', 'a', 'able', 'air', 'allow']...)
Dictionary(82 unique tokens: ['allow', 'and', 'any', 'are', 'aroud']...)
Dictionary(78 unique tokens: ['a', 'al', 'allow', 'and', 'as']...)
Dictionary(88 unique tokens: ['a', 'add', 'air', 'allow', 'another']...)
Dictionary(162 unique tokens: ['a', 'able', 'above', 'accident', 'add']...)
Dictionary(117 unique tokens: ['a', 'accommodate', 'advancing', 'air', 'all']...)
Dictionary(77 unique tokens: ['airships', 'allow', 'also', 'another', 'areas']...)
Dictionary(126 unique tokens: ['', 'a', 'able', 'accident', 'after']...)
Dictionary(98 unique tokens: ['a', 'add', 'against', 'airships', 'also']...)
Dictionary(95 unique tokens: ['', 'above', 'air', 'allow', 'allways']...)
Dictionary(62 unique tokens: ['a', 'add', 'allow', 'another', 'attached']...)
Dictionary(131 unique tokens: ['', 'a', 'about', 'after', 'age']...)
Dictionary(165 unique tokens: ['', 'a', 'able', 'added', 'air']...)
Dictionary(140 unique tokens: ['a', 'accommodate', 'actually', 'air', 'all']...)
Dictionary(106 unique tokens: ['a', 'accident', 'air', 'airships', 'also']...)
Dictionary(131 unique tokens: ['a', 'able', 'after', 'against', 'air']...)
Dictionary(114 unique tokens: ['a', 'accommodate', 'all', 'also', 'and']...)
Dictionary(108 unique tokens: ['a', 'above', 'according', 'air', 'allow']...)
Dictionary(94 unique tokens: ['actual', 'all', 'and', 'attempting', 'author']...)
Dictionary(107 unique tokens: ['a', 'across', 'add', 'amidon', 'and']...)
Dictionary(92 unique tokens: ['airships', 'all', 'always', 'an', 'and']...)
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Dictionary(113 unique tokens: ['a', 'after', 'against', 'and', 'another']...)
Dictionary(60 unique tokens: ['a', 'all', 'attempting', 'become', 'builders']...)
Dictionary(105 unique tokens: ['a', 'add', 'after', 'allow', 'allowed']...)
Dictionary(108 unique tokens: ['a', 'able', 'air', 'and', 'another']...)
Dictionary(97 unique tokens: ['a', 'after', 'air', 'all', 'allowed']...)
Dictionary(150 unique tokens: ['a', 'affect', 'allow', 'also', 'amount']...)
Dictionary(95 unique tokens: ['', 'a', 'added', 'al', 'allowing']...)
Dictionary(130 unique tokens: ['', 'a', 'able', 'add', 'adding']...)
Dictionary(125 unique tokens: ['a', 'about', 'accomplishing', 'airplanes', 'airship
s']...)
Dictionary(79 unique tokens: ['a', 'air', 'all', 'amount', 'and']...)
Dictionary(123 unique tokens: ['a', 'above', 'accident', 'accommodate', 'air']...)
Dictionary(144 unique tokens: ['', 'a', 'accommodate', 'actually', 'age']...)
Dictionary(109 unique tokens: ['', 'a', 'add', 'adjustments', 'allow']...)
Dictionary(124 unique tokens: ['', 'a', 'accident', 'add', 'against']...)
Dictionary(82 unique tokens: ['a', 'accidents', 'aircraft', 'airliners', 'avaitin
g']...)
Dictionary(109 unique tokens: ['', 'a', 'accident', 'after', 'all']...)
Dictionary(65 unique tokens: ['a', 'able', 'and', 'area', 'be']...)
Dictionary(106 unique tokens: ['', 'a', 'airships', 'allow', 'altogether']...)
Dictionary(108 unique tokens: ['a', 'above', 'add', 'air', 'airships']...)
Dictionary(118 unique tokens: ['a', 'above', 'accident', 'according', 'against']...)
Dictionary(90 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(111 unique tokens: ['a', 'affected', 'against', 'air', 'airships']...)
Dictionary(141 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(133 unique tokens: ['a', 'about', 'airships', 'al', 'all']...)
Dictionary(84 unique tokens: ['a', 'added', 'allow', 'also', 'and']...)
Dictionary(163 unique tokens: ['', 'a', 'above', 'accident', 'accommodate']...)
Dictionary(95 unique tokens: ['a', 'able', 'against', 'airships', 'already']...)
Dictionary(77 unique tokens: ['also', 'are', 'because', 'builder', 'builders']...)
Dictionary(112 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(112 unique tokens: ['', 'a', 'accommodate', 'against', 'air']...)
Dictionary(101 unique tokens: ['a', 'abandoned', 'accident', 'accidents', 'afte
r']...)
Dictionary(101 unique tokens: ['a', 'about', 'age', 'al', 'all']...)
Dictionary(159 unique tokens: ['a', 'above', 'accident', 'adds', 'after']...)
Dictionary(105 unique tokens: ['a', 'actual', 'after', 'against', 'air']...)
Dictionary(128 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(117 unique tokens: ['a', 'after', 'airship', 'also', 'an']...)
Dictionary(120 unique tokens: ['', 'above', 'after', 'air', 'all']...)
Dictionary(152 unique tokens: ['', 'a', 'accident', 'actually', 'add']...)
Dictionary(80 unique tokens: ['a', 'air', 'airships', 'allow', 'allowing']...)
Dictionary(130 unique tokens: ['a', 'above', 'accommodate', 'adding', 'all']...)
Dictionary(150 unique tokens: ['', 'a', 'about', 'above', 'again']...)
Dictionary(134 unique tokens: ['a', 'accommidation', 'added', 'adding', 'adjust']...)
Dictionary(154 unique tokens: ['', 'a', 'above', 'against', 'air']...)
Dictionary(69 unique tokens: ['', 'a', 'allow', 'and', 'area']...)
Dictionary(133 unique tokens: ['a', 'about', 'accident', 'against', 'air']...)
Dictionary(130 unique tokens: ['a', 'add', 'al', 'allowing', 'and']...)
Dictionary(132 unique tokens: ['', 'a', 'accident', 'aircraft', 'allowed']...)
Dictionary(78 unique tokens: ['a', 'against', 'air', 'airships', 'another']...)
Dictionary(99 unique tokens: ['a', 'accomade', 'added', 'after', 'allow']...)
Dictionary(136 unique tokens: ['a', 'above', 'accident', 'add', 'added']...)
Dictionary(118 unique tokens: ['action', 'against', 'airships', 'along', 'altitud
e']...)
Dictionary(121 unique tokens: ['a', 'against', 'airships', 'all', 'allow']...)
Dictionary(138 unique tokens: ['a', 'airships', 'al', 'also', 'altitude']...)
Dictionary(120 unique tokens: ['a', 'accident', 'air', 'all', 'allow']...)
Dictionary(110 unique tokens: ['a', 'about', 'air', 'also', 'an']...)
Dictionary(72 unique tokens: ['against', 'air', 'airships', 'allow', 'an']...)
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Dictionary(118 unique tokens: ['a', 'against', 'airships', 'all', 'allow']...)
Dictionary(79 unique tokens: ['a', 'allow', 'already', 'amidon', 'and']...)
Dictionary(77 unique tokens: ['a', 'add', 'al', 'allow', 'anchor']...)
Dictionary(138 unique tokens: ['a', 'above', 'add', 'air', 'airship']...)
Dictionary(95 unique tokens: ['a', 'after', 'also', 'and', 'are']...)
Dictionary(113 unique tokens: ['', 'a', 'above', 'accidently', 'against']...)
Dictionary(56 unique tokens: ['and', 'another', 'be', 'blowing', 'building']...)
Dictionary(98 unique tokens: ['a', 'above', 'another', 'any', 'at']...)
Dictionary(118 unique tokens: ['a', 'against', 'airships', 'all', 'also']...)
Dictionary(83 unique tokens: ['a', 'allow', 'also', 'and', 'any']...)
Dictionary(109 unique tokens: ['above', 'air', 'all', 'allow', 'also']...)
Dictionary(112 unique tokens: ['', 'a', 'actually', 'against', 'air']...)
Dictionary(117 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(153 unique tokens: ['', 'a', 'above', 'accommodate', 'add']...)
Dictionary(149 unique tokens: ['', 'a', 'accident', 'afloat', 'alerted']...)
Dictionary(86 unique tokens: ['a', 'all', 'allow', 'altitude', 'and']...)
Dictionary(112 unique tokens: ['', 'a', 'above', 'air', 'and']...)
Dictionary(133 unique tokens: ['a', 'above', 'accident', 'against', 'airships']...)
Dictionary(147 unique tokens: ['', 'a', 'above', 'accident', 'according']...)
Dictionary(97 unique tokens: ['a', 'adjusted', 'airships', 'and', 'architects']...)
Dictionary(104 unique tokens: ['a', 'able', 'against', 'air', 'already']...)
Dictionary(113 unique tokens: ['', 'a', 'able', 'accident', 'actually']...)
Dictionary(107 unique tokens: ['', 'a', 'about', 'add', 'an']...)
Dictionary(53 unique tokens: ['air', 'building', 'constantly', 'currents', 'due']...)
Dictionary(80 unique tokens: ['a', 'able', 'after', 'allow', 'and']...)
Dictionary(135 unique tokens: ['a', 'above', 'accommodate', 'added', 'against']...)
Dictionary(118 unique tokens: ['a', 'airships', 'allow', 'and', 'another']...)
Dictionary(168 unique tokens: ['', 'a', 'about', 'accident', 'add']...)
Dictionary(136 unique tokens: ['a', 'accidents', 'against', 'air', 'airship']...)
Dictionary(115 unique tokens: ['a', 'added', 'after', 'against', 'air']...)
Dictionary(117 unique tokens: ['a', 'accident', 'air', 'allow', 'alot']...)
Dictionary(135 unique tokens: ['', 'a', 'above', 'add', 'adding']...)
Dictionary(87 unique tokens: ['a', 'allow', 'also', 'an', 'and']...)
Dictionary(78 unique tokens: ['a', 'all', 'also', 'and', 'apart']...)
Dictionary(129 unique tokens: ['a', 'above', 'accident', 'air', 'allow']...)
Dictionary(132 unique tokens: ['', 'a', 'about', 'above', 'air']...)
Dictionary(89 unique tokens: ['a', 'accomodate', 'added', 'air', 'allow']...)
Dictionary(140 unique tokens: ['a', 'able', 'about', 'above', 'air']...)
Dictionary(131 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
Dictionary(111 unique tokens: ['a', 'accident', 'allow', 'also', 'an']...)
Dictionary(118 unique tokens: ['', 'a', 'accommodate', 'adding', 'against']...)
Dictionary(105 unique tokens: ['a', 'add', 'also', 'and', 'another']...)
Dictionary(150 unique tokens: ['', 'a', 'above', 'against', 'aircrafts']...)
Dictionary(107 unique tokens: ['a', 'against', 'air', 'airship', 'airships']...)
Dictionary(96 unique tokens: ['a', 'above', 'airships', 'allow', 'and']...)
Dictionary(134 unique tokens: ['a', 'about', 'adding', 'addition', 'additional']...)
Dictionary(91 unique tokens: ['a', 'against', 'air', 'aircraft', 'also']...)
Dictionary(110 unique tokens: ['a', 'action', 'add', 'also', 'although']...)
Dictionary(90 unique tokens: ['a', 'afloat', 'allow', 'and', 'another']...)
Dictionary(173 unique tokens: ['', 'a', 'able', 'about', 'accidents']...)
Dictionary(90 unique tokens: ['a', 'airplanes', 'allow', 'also', 'and']...)
Dictionary(67 unique tokens: ['a', 'air', 'another', 'area', 'areas']...)
Dictionary(124 unique tokens: ['a', 'affraid', 'against', 'air', 'airships']...)
Dictionary(124 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(130 unique tokens: ['a', 'according', 'al', 'allow', 'also']...)
Dictionary(67 unique tokens: ['a', 'air', 'allow', 'also', 'another']...)
Dictionary(89 unique tokens: ['a', 'about', 'accomodate', 'added', 'after']...)
Dictionary(108 unique tokens: ['a', 'above', 'add', 'air', 'allow']...)
Dictionary(112 unique tokens: ['a', 'above', 'accident', 'air', 'allow']...)
Dictionary(92 unique tokens: ['a', 'allow', 'amidon', 'angeles', 'approach']...)
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Dictionary(98 unique tokens: ['addition', 'against', 'airships', 'allow', 'also']...)
Dictionary(134 unique tokens: ['a', 'above', 'air', 'aircraft', 'airships']...)
Dictionary(116 unique tokens: ['', 'a', 'above', 'accident', 'although']...)
Dictionary(96 unique tokens: ['a', 'add', 'adding', 'allow', 'amidon']...)
Dictionary(114 unique tokens: ['a', 'above', 'airship', 'airships', 'although']...)
Dictionary(134 unique tokens: ['', 'a', 'above', 'add', 'additional']...)
Dictionary(138 unique tokens: ['', 'a', 'against', 'ahead', 'air']...)
Dictionary(101 unique tokens: ['a', 'above', 'against', 'airships', 'allow']...)
Dictionary(135 unique tokens: ['a', 'accommodate', 'add', 'added', 'air']...)
Dictionary(125 unique tokens: ['', 'a', 'about', 'against', 'air']...)
Dictionary(74 unique tokens: ['', 'about', 'accomodate', 'again', 'allow']...)
Dictionary(94 unique tokens: ['a', 'allowing', 'also', 'and', 'architects']...)
Dictionary(88 unique tokens: ['a', 'and', 'another', 'anyway', 'architects']...)
Dictionary(125 unique tokens: ['a', 'above', 'against', 'airships', 'allow']...)
Dictionary(107 unique tokens: ['', 'a', 'allow', 'analyze', 'and']...)
Dictionary(115 unique tokens: ['a', 'above', 'add', 'against', 'airships']...)
Dictionary(129 unique tokens: ['a', 'above', 'accidental', 'air', 'airship']...)
Dictionary(105 unique tokens: ['a', 'add', 'aircraft', 'allow', 'also']...)
Dictionary(85 unique tokens: ['after', 'aircraft', 'allow', 'also', 'another']...)
Dictionary(124 unique tokens: ['a', 'add', 'air', 'airships', 'al']...)
Dictionary(145 unique tokens: ['a', 'above', 'add', 'addresses', 'adjustments']...)
Dictionary(125 unique tokens: ['a', 'against', 'air', 'airships', 'allowing']...)
Dictionary(93 unique tokens: ['about', 'all', 'allow', 'also', 'and']...)
Dictionary(109 unique tokens: ['against', 'air', 'airships', 'allow', 'an']...)
Dictionary(96 unique tokens: ['a', 'al', 'allow', 'alowed', 'also']...)
Dictionary(136 unique tokens: ['a', 'able', 'accident', 'air', 'aircrafts']...)
Dictionary(87 unique tokens: ['a', 'airplane', 'allow', 'also', 'and']...)
Dictionary(104 unique tokens: ['above', 'against', 'airships', 'allow', 'always']...)
Dictionary(70 unique tokens: ['a', 'against', 'airships', 'allow', 'amidon']...)
Dictionary(75 unique tokens: ['a', 'accommodate', 'add', 'against', 'air']...)
Dictionary(64 unique tokens: ['a', 'and', 'attach', 'been', 'below']...)
Dictionary(129 unique tokens: ['', 'a', 'able', 'about', 'accident']...)
Dictionary(125 unique tokens: ['a', 'adding', 'after', 'again', 'allow']...)
Dictionary(157 unique tokens: ['', 'a', 'able', 'above', 'accommodate']...)
Dictionary(128 unique tokens: ['a', 'above', 'accident', 'accordance', 'after']...)
Dictionary(116 unique tokens: ['a', 'above', 'accident', 'add', 'allow']...)
Dictionary(118 unique tokens: ['', 'a', 'add', 'after', 'air']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'accommodate']...)
Dictionary(88 unique tokens: ['a', 'against', 'air', 'airships', 'alot']...)
Dictionary(90 unique tokens: ['a', 'add', 'air', 'allow', 'also']...)
Dictionary(93 unique tokens: ['a', 'also', 'an', 'and', 'as']...)
Dictionary(135 unique tokens: ['a', 'above', 'against', 'air', 'airship']...)
Dictionary(104 unique tokens: ['about', 'above', 'against', 'air', 'airships']...)
Dictionary(166 unique tokens: ['a', 'above', 'accident', 'accommodate', 'add']...)
Dictionary(82 unique tokens: ['', 'a', 'actually', 'after', 'air']...)
Dictionary(94 unique tokens: ['a', 'add', 'allow', 'alot', 'are']...)
Dictionary(95 unique tokens: ['a', 'add', 'addition', 'affect', 'all']...)
Dictionary(84 unique tokens: ['a', 'add', 'against', 'air', 'aircraft']...)
Dictionary(96 unique tokens: ['a', 'allowing', 'although', 'and', 'at']...)
Dictionary(109 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(85 unique tokens: ['accomplish', 'allow', 'also', 'another', 'around']...)
Dictionary(116 unique tokens: ['a', 'add', 'allowing', 'and', 'are']...)
Dictionary(110 unique tokens: ['a', 'above', 'air', 'airships', 'allow']...)
Dictionary(92 unique tokens: ['a', 'accommodate', 'against', 'air', 'airships']...)
Dictionary(111 unique tokens: ['a', 'add', 'air', 'airships', 'allow']...)
Dictionary(95 unique tokens: ['a', 'accidentally', 'against', 'allowing', 'alread
y']...)
Dictionary(131 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(114 unique tokens: ['a', 'against', 'airships', 'all', 'also']...)
Dictionary(104 unique tokens: ['a', 'add', 'affect', 'allow', 'and']...)
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Dictionary(95 unique tokens: ['a', 'against', 'aircraft', 'airships', 'amount']...)
Dictionary(115 unique tokens: ['', 'a', 'above', 'allow', 'amidon']...)
Dictionary(91 unique tokens: ['a', 'against', 'air', 'airships', 'al']...)
Dictionary(121 unique tokens: ['', '+', 'a', 'above', 'accident']...)
Dictionary(78 unique tokens: ['all', 'an', 'back', 'be', 'because']...)
Dictionary(96 unique tokens: ['a', 'accommodate', 'add', 'allow', 'and']...)
Dictionary(117 unique tokens: ['a', 'above', 'add', 'allow', 'also']...)
Dictionary(127 unique tokens: ['a', 'adapt', 'against', 'airships', 'all']...)
Dictionary(100 unique tokens: ['a', 'allow', 'and', 'at', 'attempting']...)
Dictionary(104 unique tokens: ['', 'accomplish', 'against', 'air', 'already']...)
Dictionary(151 unique tokens: ['a', 'about', 'above', 'accident', 'adapt']...)
Dictionary(129 unique tokens: ['a', 'add', 'against', 'airships', 'allow']...)
Dictionary(109 unique tokens: ['', 'a', 'able', 'accommodate', 'actual']...)
Dictionary(131 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(108 unique tokens: ['', 'a', 'according', 'add', 'adding']...)
Dictionary(136 unique tokens: ['a', 'against', 'age', 'air', 'airplanes']...)
Dictionary(93 unique tokens: ['', 'a', 'add', 'added', 'air']...)
Dictionary(146 unique tokens: ['a', 'above', 'against', 'air', 'allow']...)
Dictionary(120 unique tokens: ['', 'a', 'add', 'air', 'allow']...)
Dictionary(99 unique tokens: ['a', 'accommodate', 'add', 'allow', 'and']...)
Dictionary(113 unique tokens: ['a', 'allow', 'amidon', 'and', 'as']...)
Dictionary(130 unique tokens: ['a', 'against', 'air', 'aircraft', 'airships']...)
Dictionary(125 unique tokens: ['a', 'across', 'agreed', 'ahead', 'air']...)
Dictionary(91 unique tokens: ['a', 'accommodate', 'all', 'allow', 'also']...)
Dictionary(146 unique tokens: ['a', 'able', 'against', 'agree', 'air']...)
Dictionary(94 unique tokens: ['a', 'accident', 'accured', 'additional', 'aircraf
t']...)
Dictionary(105 unique tokens: ['a', 'add', 'adjust', 'after', 'allow']...)
Dictionary(79 unique tokens: ['', 'about', 'al', 'allow', 'always']...)
Dictionary(95 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(118 unique tokens: ['a', 'accommodate', 'add', 'air', 'all']...)
Dictionary(83 unique tokens: ['a', 'add', 'allowing', 'and', 'another']...)
Dictionary(113 unique tokens: ['a', 'able', 'air', 'aircraft', 'al']...)
Dictionary(71 unique tokens: ['a', 'and', 'are', 'as', 'because']...)
Dictionary(94 unique tokens: ['a', 'air', 'allowing', 'and', 'around']...)
Dictionary(114 unique tokens: ['a', 'accommodate', 'added', 'against', 'air']...)
Dictionary(111 unique tokens: ['a', 'accommodate', 'add', 'affected', 'all']...)
Dictionary(93 unique tokens: ['a', 'added', 'allow', 'anchor', 'and']...)
Dictionary(100 unique tokens: ['a', 'able', 'afloat', 'airships', 'allow']...)
Dictionary(82 unique tokens: ['also', 'anchor', 'and', 'as', 'big']...)
Dictionary(110 unique tokens: ['', 'a', 'acsident', 'air', 'also']...)
Dictionary(109 unique tokens: ['', 'a', 'able', 'after', 'against']...)
Dictionary(139 unique tokens: ['a', 'after', 'against', 'air', 'airships']...)
Dictionary(124 unique tokens: ['', 'a', 'add', 'after', 'allow']...)
Dictionary(99 unique tokens: ['', 'a', 'above', 'air', 'also']...)
Dictionary(120 unique tokens: ['a', 'allow', 'aloft', 'also', 'although']...)
Dictionary(111 unique tokens: ['a', 'above', 'accommodate', 'add', 'air']...)
Dictionary(105 unique tokens: ['a', 'above', 'against', 'airships', 'all']...)
Dictionary(119 unique tokens: ['', 'a', 'abandoned', 'again', 'all']...)
Dictionary(99 unique tokens: ['a', 'all', 'amount', 'and', 'architects']...)
Dictionary(61 unique tokens: ['a', 'air', 'airship', 'also', 'and']...)
Dictionary(99 unique tokens: ['a', 'accident', 'airships', 'also', 'an']...)
Dictionary(99 unique tokens: ['an', 'and', 'are', 'areas', 'around']...)
Dictionary(165 unique tokens: ['', 'a', 'above', 'accident', 'affeted']...)
Dictionary(133 unique tokens: ['', 'a', 'actually', 'add', 'against']...)
Dictionary(115 unique tokens: ['accommodate', 'add', 'against', 'airships', 'al
l']...)
Dictionary(131 unique tokens: ['a', 'add', 'all', 'allow', 'also']...)
Dictionary(130 unique tokens: ['', 'a', 'air', 'airships', 'al']...)
Dictionary(81 unique tokens: ['a', 'air', 'allow', 'also', 'at']...)
```

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Dictionary(118 unique tokens: ['a', 'add', 'added', 'also', 'and']...)
Dictionary(101 unique tokens: ['', 'a', 'account', 'add', 'affected']...)
Dictionary(108 unique tokens: ['a', 'air', 'airship', 'allow', 'an']...)
Dictionary(67 unique tokens: ['a', 'allow', 'also', 'an', 'anchor']...)
Dictionary(109 unique tokens: ['a', 'al', 'all', 'also', 'and']...)
Dictionary(39 unique tokens: ['builders', 'building', 'empire', 'itself', 'natur
e']...)
Dictionary(146 unique tokens: ['', 'a', 'above', 'accident', 'addition']...)
Dictionary(139 unique tokens: ['a', 'above', 'accident', 'accommodate', 'air']...)
Dictionary(84 unique tokens: ['a', 'aircraft', 'all', 'and', 'atop']...)
Dictionary(137 unique tokens: ['', 'a', 'about', 'affect', 'against']...)
Dictionary(79 unique tokens: ['adding', 'allow', 'and', 'attempting', 'be']...)
Dictionary(95 unique tokens: ['a', 'against', 'air', 'allowed', 'also']...)
Dictionary(98 unique tokens: ['a', 'against', 'air', 'airships', 'allowing']...)
Dictionary(99 unique tokens: ['a', 'add', 'air', 'another', 'architects']...)
Dictionary(78 unique tokens: ['a', 'about', 'alot', 'also', 'and']...)
Dictionary(80 unique tokens: ['a', 'adjustments', 'and', 'another', 'architects']...)
Dictionary(125 unique tokens: ['', 'a', 'above', 'against', 'airships']...)
Dictionary(109 unique tokens: ['a', 'add', 'al', 'allowing', 'also']...)
Dictionary(143 unique tokens: ['a', 'airships', 'altitude', 'an', 'and']...)
Dictionary(122 unique tokens: ['', 'a', 'above', 'add', 'against']...)
Dictionary(75 unique tokens: ['a', 'add', 'again', 'all', 'alot']...)
Dictionary(109 unique tokens: ['a', 'able', 'against', 'airship', 'always']...)
Dictionary(113 unique tokens: ['', 'a', 'about', 'acciedent', 'add']...)
Dictionary(125 unique tokens: ['a', 'against', 'airships', 'allow', 'also']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'according']...)
Dictionary(105 unique tokens: ['against', 'airships', 'allow', 'an', 'and']...)
Dictionary(107 unique tokens: ['a', 'after', 'al', 'another', 'architect']...)
Dictionary(97 unique tokens: ['a', 'allow', 'and', 'architects', 'attempting']...)
Dictionary(108 unique tokens: ['a', 'across', 'affected', 'against', 'also']...)
Dictionary(81 unique tokens: ['a', 'adding', 'also', 'and', 'are']...)
Dictionary(116 unique tokens: ['a', 'able', 'add', 'against', 'air']...)
Dictionary(138 unique tokens: ['a', 'able', 'accident', 'addition', 'air']...)
Dictionary(96 unique tokens: ['a', 'able', 'against', 'air', 'airships']...)
Dictionary(64 unique tokens: ['a', 'air', 'and', 'balloon', 'be']...)
Dictionary(127 unique tokens: ['a', 'above', 'aircrafts', 'allow', 'allowing']...)
Dictionary(93 unique tokens: ['a', 'able', 'about', 'allow', 'also']...)
Dictionary(101 unique tokens: ['about', 'air', 'aircrafts', 'alot', 'always']...)
Dictionary(107 unique tokens: ['a', 'above', 'accident', 'allow', 'also']...)
Dictionary(89 unique tokens: ['a', 'about', 'actually', 'all', 'also']...)
Dictionary(102 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(96 unique tokens: ['a', 'about', 'al', 'all', 'and']...)
Dictionary(159 unique tokens: ['', 'a', 'about', 'above', 'accident']...)
Dictionary(134 unique tokens: ['a', 'airplanes', 'airships', 'also', 'although']...)
Dictionary(83 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(121 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(138 unique tokens: ['a', 'about', 'against', 'air', 'airships']...)
Dictionary(74 unique tokens: ['', 'a', 'add', 'allow', 'amidon']...)
Dictionary(151 unique tokens: ['', 'a', 'able', 'accident', 'accomodate']...)
Dictionary(117 unique tokens: ['a', 'all', 'allow', 'also', 'and']...)
Dictionary(131 unique tokens: ['', 'a', 'able', 'above', 'accident']...)
Dictionary(148 unique tokens: ['a', 'able', 'above', 'accident', 'after']...)
Dictionary(121 unique tokens: ['a', 'added', 'against', 'air', 'airships']...)
Dictionary(92 unique tokens: ['a', 'about', 'after', 'air', 'allow']...)
Dictionary(114 unique tokens: ['', 'a', 'able', 'add', 'all']...)
Dictionary(97 unique tokens: ['a', 'air', 'airships', 'all', 'and']...)
Dictionary(132 unique tokens: ['', 'a', 'above', 'acceptable', 'add']...)
Dictionary(134 unique tokens: ['a', 'achieve', 'add', 'aid', 'air']...)
Dictionary(110 unique tokens: ['', 'a', 'accommodate', 'add', 'airships']...)
Dictionary(85 unique tokens: ['a', 'aircraft', 'also', 'area', 'around']...)
```

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Dictionary(84 unique tokens: ['', 'a', 'add', 'allow', 'and']...)
Dictionary(121 unique tokens: ['', 'a', 'above', 'against', 'and']...)
Dictionary(102 unique tokens: ['a', 'add', 'advanced', 'after', 'al']...)
Dictionary(75 unique tokens: ['allowing', 'alot', 'amidon', 'another', 'at']...)
Dictionary(123 unique tokens: ['', 'a', 'able', 'above', 'accident']...)
Dictionary(155 unique tokens: ['a', 'acident', 'address', 'addressed', 'airship
s']...)
Dictionary(83 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(107 unique tokens: ['', 'a', 'allow', 'almost', 'and']...)
Dictionary(65 unique tokens: ['a', 'airships', 'also', 'and', 'builders']...)
Dictionary(109 unique tokens: ['a', 'about', 'above', 'all', 'and']...)
Dictionary(86 unique tokens: ['', 'a', 'aflame', 'allowing', 'also']...)
Dictionary(55 unique tokens: ['accommodate', 'building', 'buildings', 'caps', 'diffic
ulties']...)
Dictionary(123 unique tokens: ['', 'a', 'accident', 'air', 'allow']...)
Dictionary(93 unique tokens: ['a', 'accomplish', 'added', 'airships', 'allow']...)
Dictionary(127 unique tokens: ['a', 'added', 'against', 'airships', 'allow']...)
Dictionary(90 unique tokens: ['allow', 'also', 'amidon', 'and', 'attempting']...)
Dictionary(66 unique tokens: ['and', 'as', 'been', 'buildings', 'can']...)
Dictionary(100 unique tokens: ['a', 'above', 'accident', 'allow', 'amidon']...)
Dictionary(88 unique tokens: ['a', 'add', 'all', 'also', 'and']...)
Dictionary(137 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(111 unique tokens: ['', 'a', 'above', 'against', 'airplanes']...)
Dictionary(74 unique tokens: ['a', 'above', 'air', 'allowing', 'and']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(100 unique tokens: ['a', 'about', 'after', 'against', 'airships']...)
Dictionary(88 unique tokens: ['a', 'above', 'add', 'air', 'along']...)
Dictionary(122 unique tokens: ['a', 'about', 'accommodate', 'against', 'airship
s']...)
Dictionary(90 unique tokens: ['a', 'all', 'almost', 'amount', 'an']...)
Dictionary(91 unique tokens: ['a', 'about', 'addition', 'also', 'and']...)
Dictionary(137 unique tokens: ['', '+', 'a', 'accedents', 'added']...)
Dictionary(120 unique tokens: ['a', 'about', 'air', 'airships', 'allow']...)
Dictionary(132 unique tokens: ['a', 'above', 'add', 'additional', 'against']...)
Dictionary(104 unique tokens: ['a', 'alot', 'and', 'another', 'any']...)
Dictionary(55 unique tokens: ['a', 'an', 'and', 'builders', 'building']...)
Dictionary(65 unique tokens: ['a', 'airships', 'also', 'and', 'approached']...)
Dictionary(122 unique tokens: ['', 'a', 'add', 'adding', 'after']...)
Dictionary(124 unique tokens: ['a', 'across', 'air', 'airship', 'al']...)
Dictionary(56 unique tokens: ['allow', 'and', 'attempting', 'builders', 'differen
t']...)
Dictionary(121 unique tokens: ['a', 'air', 'airships', 'all', 'allow']...)
Dictionary(69 unique tokens: ['', 'a', 'alot', 'an', 'and']...)
Dictionary(106 unique tokens: ['a', 'above', 'accident', 'air', 'and']...)
Dictionary(98 unique tokens: ['a', 'aganst', 'allowing', 'also', 'an']...)
Dictionary(114 unique tokens: ['', 'air', 'also', 'amidon', 'and']...)
Dictionary(95 unique tokens: ['a', 'accident', 'airships', 'also', 'an']...)
Dictionary(100 unique tokens: ['a', 'able', 'after', 'airships', 'allow']...)
Dictionary(150 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(96 unique tokens: ['a', 'able', 'accident', 'aircurrents', 'allow']...)
Dictionary(115 unique tokens: ['', 'a', 'according', 'add', 'altitude']...)
Dictionary(107 unique tokens: ['a', 'against', 'airship', 'airships', 'allow']...)
Dictionary(116 unique tokens: ['a', 'accommodate', 'against', 'air', 'airplanes']...)
Dictionary(114 unique tokens: ['a', 'against', 'airships', 'approach', 'area']...)
Dictionary(164 unique tokens: ['a', 'about', 'add', 'age', 'air']...)
Dictionary(86 unique tokens: ['a', 'accident', 'an', 'and', 'another']...)
Dictionary(79 unique tokens: ['a', 'above', 'allow', 'also', 'area']...)
Dictionary(119 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(136 unique tokens: ['a', 'above', 'accident', 'against', 'age']...)
Dictionary(123 unique tokens: ['a', 'abuilding', 'add', 'all', 'allowing']...)
```

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Dictionary(114 unique tokens: ['a', 'add', 'allow', 'also', 'another']...)
Dictionary(128 unique tokens: ['a', 'abandoned', 'about', 'above', 'add']...)
Dictionary(121 unique tokens: ['', 'a', 'add', 'air', 'al']...)
Dictionary(135 unique tokens: ['a', 'accommodate', 'actually', 'add', 'air']...)
Dictionary(92 unique tokens: ['airships', 'allowing', 'already', 'an', 'and']...)
Dictionary(77 unique tokens: ['a', 'airships', 'and', 'another', 'apparent']...)
Dictionary(102 unique tokens: ['a', 'above', 'accident', 'against', 'air']...)
Dictionary(137 unique tokens: ['a', 'above', 'accident', 'air', 'allow']...)
Dictionary(149 unique tokens: ['', 'a', 'allowing', 'although', 'always']...)
Dictionary(108 unique tokens: ['', 'a', 'airplane', 'airplanes', 'and']...)
Dictionary(124 unique tokens: ['a', 'against', 'airships', 'all', 'allow']...)
Dictionary(102 unique tokens: ['a', 'add', 'al', 'all', 'allow']...)
Dictionary(116 unique tokens: ['', 'a', 'add', 'adding', 'al']...)
Dictionary(122 unique tokens: ['a', 'above', 'accident', 'against', 'air']...)
Dictionary(136 unique tokens: ['', 'a', 'air', 'an', 'and']...)
Dictionary(145 unique tokens: ['', 'a', 'above', 'against', 'air']...)
Dictionary(102 unique tokens: ['', 'added', 'adding', 'after', 'al']...)
Dictionary(120 unique tokens: ['', 'a', 'across', 'add', 'against']...)
Dictionary(90 unique tokens: ['a', 'above', 'air', 'all', 'also']...)
Dictionary(92 unique tokens: ['a', 'above', 'add', 'against', 'airships']...)
Dictionary(87 unique tokens: ['a', 'about', 'al', 'avoidable', 'been']...)
Dictionary(145 unique tokens: ['a', 'able', 'above', 'after', 'airplanes']...)
Dictionary(106 unique tokens: ['a', 'air', 'airships', 'all', 'allow']...)
Dictionary(121 unique tokens: ['', 'a', 'added', 'after', 'against']...)
Dictionary(68 unique tokens: ['', 'a', 'al', 'another', 'area']...)
Dictionary(93 unique tokens: ['a', 'about', 'add', 'airships', 'allow']...)
Dictionary(91 unique tokens: ['', 'a', 'add', 'adding', 'air']...)
Dictionary(121 unique tokens: ['a', 'able', 'above', 'afraid', 'against']...)
Dictionary(90 unique tokens: ['a', 'air', 'all', 'and', 'angeles']...)
Dictionary(91 unique tokens: ['a', 'add', 'also', 'and', 'are']...)
Dictionary(97 unique tokens: ['', 'a', 'able', 'after', 'along']...)
Dictionary(109 unique tokens: ['a', 'able', 'afraid', 'air', 'all']...)
Dictionary(113 unique tokens: ['a', 'against', 'air', 'allowing', 'and']...)
Dictionary(105 unique tokens: ['a', 'add', 'air', 'all', 'allow']...)
Dictionary(70 unique tokens: ['', 'a', 'and', 'announced', 'be']...)
Dictionary(105 unique tokens: ['a', 'about', 'accident', 'adding', 'adress']...)
Dictionary(107 unique tokens: ['a', 'about', 'air', 'airships', 'allow']...)
Dictionary(98 unique tokens: ['a', 'above', 'also', 'and', 'another']...)
Dictionary(79 unique tokens: ['a', 'above', 'afloat', 'air', 'another']...)
Dictionary(96 unique tokens: ['', 'a', 'aced', 'air', 'airship']...)
Dictionary(119 unique tokens: ['a', 'accident', 'according', 'account', 'adding']...)
Dictionary(121 unique tokens: ['a', 'against', 'aircraft', 'airships', 'allow']...)
Dictionary(95 unique tokens: ['a', 'air', 'airships', 'also', 'and']...)
Dictionary(117 unique tokens: ['a', 'able', 'add', 'adding', 'all']...)
Dictionary(111 unique tokens: ['', 'a', 'aircraft', 'all', 'allow']...)
Dictionary(90 unique tokens: ['', 'a', 'aircraft', 'an', 'and']...)
Dictionary(109 unique tokens: ['a', 'about', 'accommodate', 'affected', 'amidon']...)
Dictionary(104 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(139 unique tokens: ['', 'a', 'achieve', 'air', 'al']...)
Dictionary(123 unique tokens: ['a', 'air', 'airships', 'an', 'and']...)
Dictionary(54 unique tokens: ['', 'a', 'add', 'at', 'building']...)
Dictionary(177 unique tokens: ['', 'a', 'able', 'accident', 'accommodate']...)
Dictionary(111 unique tokens: ['', 'a', 'about', 'against', 'air']...)
Dictionary(101 unique tokens: ['a', 'added', 'airship', 'also', 'and']...)
Dictionary(141 unique tokens: ['a', 'add', 'again', 'air', 'allow']...)
Dictionary(105 unique tokens: ['a', 'accommodate', 'add', 'al', 'all']...)
Dictionary(86 unique tokens: ['a', 'about', 'al', 'allow', 'and']...)
Dictionary(106 unique tokens: ['a', 'above', 'and', 'another', 'architects']...)
Dictionary(52 unique tokens: ['a', 'and', 'at', 'be', 'because']...)
Dictionary(69 unique tokens: ['', 'a', 'accommidate', 'allow', 'also']...)
```

```
Dictionary(72 unique tokens: ['able', 'add', 'allow', 'amidon', 'and']...)
Dictionary(181 unique tokens: ['', 'a', 'above', 'added', 'against']...)
Dictionary(134 unique tokens: ['a', 'above', 'accident', 'aircraft', 'allow']...)
Dictionary(100 unique tokens: ['a', 'add', 'and', 'apparent', 'architects']...)
Dictionary(108 unique tokens: ['a', 'about', 'add', 'all', 'amidon']...)
Dictionary(109 unique tokens: ['a', 'against', 'airships', 'allow', 'an']...)
Dictionary(84 unique tokens: ['a', 'about', 'against', 'air', 'airships']...)
Dictionary(178 unique tokens: ['', 'a', 'add', 'added', 'al']...)
Dictionary(92 unique tokens: ['a', 'aero', 'and', 'are', 'be']...)
Dictionary(83 unique tokens: ['a', 'able', 'airship', 'an', 'and']...)
Dictionary(157 unique tokens: ['a', 'able', 'against', 'airships', 'al']...)
Dictionary(80 unique tokens: ['a', 'accommodate', 'add', 'all', 'allow']...)
Dictionary(105 unique tokens: ['', 'a', 'allow', 'also', 'and']...)
Dictionary(142 unique tokens: ['a', 'accident', 'after', 'against', 'air']...)
Dictionary(71 unique tokens: ['a', 'add', 'allow', 'attempting', 'bad']...)
Dictionary(159 unique tokens: ['a', 'add', 'against', 'airships', 'all']...)
Dictionary(75 unique tokens: ['a', 'against', 'airships', 'allow', 'another']...)
Dictionary(50 unique tokens: ['also', 'be', 'because', 'building', 'face']...)
Dictionary(90 unique tokens: ['a', 'affect', 'air', 'al', 'all']...)
Dictionary(139 unique tokens: ['a', 'above', 'allow', 'an', 'and']...)
Dictionary(88 unique tokens: ['a', 'able', 'allow', 'also', 'and']...)
Dictionary(157 unique tokens: ['a', 'above', 'after', 'against', 'airships']...)
Dictionary(135 unique tokens: ['a', 'additional', 'aesthetically', 'air', 'al']...)
Dictionary(104 unique tokens: ['a', 'ability', 'add', 'air', 'and']...)
Dictionary(127 unique tokens: ['a', 'above', 'according', 'add', 'allow']...)
Dictionary(97 unique tokens: ['a', 'allow', 'and', 'approved', 'attempting']...)
Dictionary(76 unique tokens: ['able', 'about', 'allowing', 'also', 'and']...)
Dictionary(90 unique tokens: ['a', 'above', 'air', 'allow', 'and']...)
Dictionary(131 unique tokens: ['a', 'accident', 'add', 'against', 'air']...)
Dictionary(100 unique tokens: ['a', 'about', 'accident', 'air', 'and']...)
Dictionary(104 unique tokens: ['a', 'above', 'according', 'against', 'air']...)
Dictionary(134 unique tokens: ['a', 'ablaze', 'air', 'also', 'amount']...)
Dictionary(90 unique tokens: ['a', 'airspace', 'and', 'at', 'blimps']...)
Dictionary(114 unique tokens: ['', 'a', 'accomodate', 'add', 'all']...)
Dictionary(96 unique tokens: ['above', 'against', 'air', 'airships', 'allow']...)
Dictionary(111 unique tokens: ['a', 'all', 'allow', 'allows', 'an']...)
Dictionary(93 unique tokens: ['a', 'all', 'allow', 'and', 'another']...)
Dictionary(114 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(119 unique tokens: ['a', 'also', 'and', 'anything', 'are']...)
Dictionary(72 unique tokens: ['a', 'able', 'also', 'and', 'any']...)
Dictionary(98 unique tokens: ['a', 'able', 'above', 'accident', 'against']...)
Dictionary(100 unique tokens: ['a', 'airships', 'albeit', 'allow', 'also']...)
Dictionary(70 unique tokens: ['air', 'all', 'allow', 'and', 'are']...)
Dictionary(117 unique tokens: ['a', 'against', 'airships', 'allow', 'amidon']...)
Dictionary(127 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(63 unique tokens: ['aircraft', 'all', 'already', 'based', 'builders']...)
Dictionary(148 unique tokens: ['a', 'above', 'across', 'additional', 'airships']...)
Dictionary(130 unique tokens: ['', 'a', 'above', 'air', 'airships']...)
Dictionary(113 unique tokens: ['a', 'air', 'all', 'allowing', 'amidon']...)
Dictionary(118 unique tokens: ['a', 'achieve', 'air', 'although', 'and']...)
Dictionary(98 unique tokens: ['a', 'add', 'added', 'air', 'allow']...)
Dictionary(78 unique tokens: ['a', 'alot', 'and', 'another', 'blimp']...)
Dictionary(126 unique tokens: ['', 'a', 'able', 'above', 'air']...)
Dictionary(107 unique tokens: ['a', 'able', 'above', 'airships', 'all']...)
Dictionary(109 unique tokens: ['a', 'against', 'airships', 'all', 'and']...)
Dictionary(126 unique tokens: ['a', 'able', 'accommodate', 'according', 'after']...)
Dictionary(55 unique tokens: ['aboat', 'and', 'as', 'caps', 'comes']...)
Dictionary(113 unique tokens: ['a', 'an', 'and', 'architect', 'architects']...)
Dictionary(125 unique tokens: ['', 'a', 'action', 'add', 'allow']...)
Dictionary(105 unique tokens: ['a', 'acomidated', 'allow', 'angeles', 'another']...)
```

```
Dictionary(117 unique tokens: ['a', 'able', 'above', 'against', 'airships']...)
Dictionary(84 unique tokens: ['a', 'able', 'add', 'always', 'and']...)
Dictionary(132 unique tokens: ['', 'a', 'above', 'accident', 'all']...)
Dictionary(99 unique tokens: ['a', 'accident', 'air', 'allow', 'another']...)
Dictionary(136 unique tokens: ['', 'a', 'airships', 'allow', 'also']...)
Dictionary(125 unique tokens: ['', 'a', 'against', 'air', 'airship']...)
Dictionary(109 unique tokens: ['a', 'able', 'air', 'airships', 'and']...)
Dictionary(97 unique tokens: ['a', 'above', 'accessible', 'also', 'and']...)
Dictionary(111 unique tokens: ['a', 'afraid', 'airships', 'allow', 'alot']...)
Dictionary(162 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
Dictionary(114 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(88 unique tokens: ['a', 'all', 'allow', 'an', 'anchor']...)
Dictionary(121 unique tokens: ['a', 'accommodate', 'add', 'after', 'air']...)
Dictionary(123 unique tokens: ['a', 'able', 'achieved', 'air', 'airships']...)
Dictionary(98 unique tokens: ['a', 'against', 'airships', 'already', 'an']...)
Dictionary(105 unique tokens: ['a', 'added', 'airships', 'alotthe', 'and']...)
Dictionary(102 unique tokens: ['', 'a', 'about', 'add', 'against']...)
Dictionary(112 unique tokens: ['a', 'airspace', 'always', 'and', 'angeles']...)
Dictionary(67 unique tokens: ['a', 'age', 'an', 'and', 'architects']...)
Dictionary(98 unique tokens: ['', 'a', 'able', 'al', 'and']...)
Dictionary(66 unique tokens: ['a', 'altogether', 'and', 'attempt', 'been']...)
Dictionary(101 unique tokens: ['a', 'accident', 'always', 'and', 'area']...)
Dictionary(136 unique tokens: ['a', 'about', 'air', 'airship', 'al']...)
Dictionary(124 unique tokens: ['', 'a', 'able', 'according', 'against']...)
Dictionary(75 unique tokens: ['a', 'after', 'and', 'any', 'architects']...)
Dictionary(163 unique tokens: ['a', 'air', 'al', 'all', 'allow']...)
Dictionary(75 unique tokens: ['alot', 'also', 'and', 'another', 'because']...)
Dictionary(119 unique tokens: ['a', 'above', 'add', 'air', 'all']...)
Dictionary(97 unique tokens: ['about', 'agianst', 'air', 'airships', 'allow']...)
Dictionary(134 unique tokens: ['', 'a', 'accommodate', 'add', 'air']...)
Dictionary(121 unique tokens: ['a', 'able', 'above', 'add', 'air']...)
Dictionary(126 unique tokens: ['', 'a', 'added', 'air', 'al']...)
Dictionary(118 unique tokens: ['', 'a', 'add', 'all', 'allow']...)
Dictionary(92 unique tokens: ['', 'a', 'affraid', 'all', 'also']...)
Dictionary(142 unique tokens: ['a', 'air', 'airships', 'al', 'although']...)
Dictionary(81 unique tokens: ['a', 'allow', 'and', 'as', 'at']...)
Dictionary(96 unique tokens: ['', 'a', 'above', 'accident', 'and']...)
Dictionary(127 unique tokens: ['', 'a', 'above', 'air', 'airships']...)
Dictionary(130 unique tokens: ['', 'a', 'added', 'against', 'airships']...)
Dictionary(98 unique tokens: ['', 'a', 'an', 'and', 'another']...)
Dictionary(108 unique tokens: ['a', 'after', 'and', 'another', 'area']...)
Dictionary(96 unique tokens: ['a', 'about', 'actulty', 'afraid', 'al']...)
Dictionary(100 unique tokens: ['a', 'above', 'air', 'all', 'also']...)
Dictionary(130 unique tokens: ['a', 'against', 'air', 'allow', 'allowed']...)
Dictionary(150 unique tokens: ['a', 'accomplish', 'according', 'advancement', 'aerona
utical']...)
Dictionary(155 unique tokens: ['a', 'account', 'adds', 'air', 'amidon']...)
Dictionary(57 unique tokens: ['and', 'attched', 'become', 'building', 'did']...)
Dictionary(115 unique tokens: ['a', 'accident', 'airships', 'al', 'an']...)
Dictionary(77 unique tokens: ['a', 'accommodate', 'allow', 'and', 'any']...)
Dictionary(121 unique tokens: ['', 'a', 'able', 'add', 'al']...)
Dictionary(105 unique tokens: ['', 'a', 'against', 'airships', 'allow']...)
Dictionary(184 unique tokens: ['', 'a', 'accident', 'actually', 'after']...)
Dictionary(118 unique tokens: ['a', 'accident', 'add', 'against', 'air']...)
Dictionary(131 unique tokens: ['a', 'air', 'airships', 'al', 'all']...)
Dictionary(68 unique tokens: ['allow', 'attempting', 'base', 'because', 'builder
s']...)
Dictionary(124 unique tokens: ['', 'a', 'accommodate', 'added', 'air']...)
Dictionary(104 unique tokens: ['', 'a', 'after', 'al', 'and']...)
Dictionary(108 unique tokens: ['a', 'above', 'account', 'added', 'air']...)
```

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Dictionary(121 unique tokens: ['', 'a', 'accident', 'all', 'allow']...)
Dictionary(126 unique tokens: ['a', 'above', 'add', 'against', 'air']...)
Dictionary(73 unique tokens: ['a', 'allow', 'and', 'another', 'area']...)
Dictionary(104 unique tokens: ['', 'a', 'al', 'allow', 'also']...)
Dictionary(103 unique tokens: ['a', 'accommodate', 'add', 'airplanes', 'all']...)
Dictionary(129 unique tokens: ['a', 'about', 'all', 'although', 'and']...)
Dictionary(119 unique tokens: ['a', 'acadent', 'air', 'allow', 'allowing']...)
Dictionary(69 unique tokens: ['', 'a', 'against', 'airships', 'another']...)
Dictionary(189 unique tokens: ['a', 'achieved', 'against', 'air', 'airships']...)
Dictionary(64 unique tokens: ['according', 'allow', 'and', 'attempted', 'back']...)
Dictionary(87 unique tokens: ['affect', 'air', 'allow', 'also', 'an']...)
Dictionary(101 unique tokens: ['a', 'added', 'adopt', 'al', 'allow']...)
Dictionary(99 unique tokens: ['above', 'accommodate', 'air', 'aircrafts', 'all']...)
Dictionary(104 unique tokens: ['a', 'air', 'airships', 'also', 'an']...)
Dictionary(135 unique tokens: ['a', 'accident', 'after', 'aginst', 'airships']...)
Dictionary(96 unique tokens: ['', 'a', 'air', 'all', 'also']...)
Dictionary(98 unique tokens: ['a', 'about', 'allow', 'always', 'and']...)
Dictionary(76 unique tokens: ['a', 'accommodate', 'add', 'allow', 'alow']...)
Dictionary(111 unique tokens: ['a', 'able', 'age', 'airplanes', 'all']...)
Dictionary(115 unique tokens: ['a', 'above', 'after', 'airships', 'all']...)
Dictionary(133 unique tokens: ['', 'a', 'achieve', 'against', 'air']...)
Dictionary(102 unique tokens: ['a', 'added', 'al', 'allow', 'an']...)
Dictionary(103 unique tokens: ['', 'a', 'above', 'and', 'at']...)
Dictionary(137 unique tokens: ['a', 'above', 'accidents', 'accommodate', 'add']...)
Dictionary(129 unique tokens: ['a', 'accommodate', 'allow', 'allowing', 'also']...)
Dictionary(119 unique tokens: ['', 'a', 'add', 'adding', 'al']...)
Dictionary(104 unique tokens: ['a', 'actually', 'agains', 'air', 'airships']...)
Dictionary(131 unique tokens: ['a', 'adding', 'after', 'air', 'airships']...)
Dictionary(74 unique tokens: ['and', 'build', 'builders', 'dident', 'dirigibles']...)
Dictionary(98 unique tokens: ['a', 'against', 'also', 'and', 'architects']...)
Dictionary(116 unique tokens: ['a', 'accommodate', 'add', 'against', 'air']...)
Dictionary(140 unique tokens: ['', 'a', 'accommodate', 'according', 'added']...)
Dictionary(116 unique tokens: ['a', 'above', 'adds', 'air', 'allow']...)
Dictionary(102 unique tokens: ['', 'a', 'accomodate', 'after', 'again']...)
Dictionary(102 unique tokens: ['', 'a', 'after', 'airplanes', 'airships']...)
Dictionary(96 unique tokens: ['', 'a', 'about', 'air', 'all']...)
Dictionary(135 unique tokens: ['a', 'about', 'advertising', 'al', 'also']...)
Dictionary(111 unique tokens: ['a', 'add', 'al', 'allow', 'also']...)
Dictionary(78 unique tokens: ['a', 'accommodate', 'add', 'added', 'all']...)
Dictionary(82 unique tokens: ['a', 'added', 'alotomoney', 'always', 'and']...)
Dictionary(95 unique tokens: ['a', 'able', 'accommodate', 'air', 'and']...)
Dictionary(77 unique tokens: ['a', 'accident', 'allow', 'an', 'and']...)
Dictionary(97 unique tokens: ['afraid', 'airplanes', 'alot', 'also', 'always']...)
Dictionary(120 unique tokens: ['a', 'accident', 'added', 'after', 'airships']...)
Dictionary(116 unique tokens: ['a', 'add', 'all', 'allowing', 'amidon']...)
Dictionary(96 unique tokens: ['a', 'above', 'allow', 'and', 'approach']...)
Dictionary(109 unique tokens: ['a', 'able', 'above', 'airships', 'also']...)
Dictionary(137 unique tokens: ['a', 'after', 'air', 'airships', 'all']...)
Dictionary(128 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(163 unique tokens: ['a', 'above', 'accident', 'accounted', 'airships']...)
Dictionary(124 unique tokens: ['abandoning', 'able', 'administrative', 'air', 'al
l']...)
Dictionary(80 unique tokens: ['air', 'al', 'also', 'an', 'and']...)
Dictionary(102 unique tokens: ['a', 'airships', 'all', 'allow', 'and']...)
Dictionary(176 unique tokens: ['a', 'above', 'accident', 'after', 'against']...)
Dictionary(93 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(120 unique tokens: ['a', 'about', 'amount', 'and', 'architects']...)
Dictionary(159 unique tokens: ['a', 'able', 'accident', 'added', 'air']...)
Dictionary(104 unique tokens: ['a', 'airplanes', 'all', 'amidon', 'and']...)
Dictionary(121 unique tokens: ['a', 'about', 'accident', 'after', 'against']...)
```

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Dictionary(117 unique tokens: ['', 'accident', 'against', 'air', 'airships']...)
Dictionary(88 unique tokens: ['able', 'all', 'also', 'and', 'around']...)
Dictionary(131 unique tokens: ['a', 'above', 'afloat', 'after', 'against']...)
Dictionary(68 unique tokens: ['a', 'add', 'allow', 'and', 'architechs']...)
Dictionary(60 unique tokens: ['', 'ader', 'airships', 'al', 'among']...)
Dictionary(113 unique tokens: ['', 'a', 'above', 'all', 'allow']...)
Dictionary(46 unique tokens: ['builders', 'building', 'determined', 'dirigibles', 'do
ck']...)
Dictionary(127 unique tokens: ['a', 'air', 'airships', 'all', 'an']...)
Dictionary(99 unique tokens: ['a', 'agianst', 'airships', 'allow', 'also']...)
Dictionary(103 unique tokens: ['', 'a', 'airships', 'allow', 'also']...)
Dictionary(111 unique tokens: ['a', 'abuve', 'acident', 'al', 'an']...)
Dictionary(133 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(88 unique tokens: ['a', 'about', 'allow', 'also', 'and']...)
Dictionary(112 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(99 unique tokens: ['a', 'against', 'air', 'airships', 'allowing']...)
Dictionary(127 unique tokens: ['a', 'about', 'active', 'airplanes', 'airships']...)
Dictionary(93 unique tokens: ['across', 'added', 'air', 'all', 'allow']...)
Dictionary(111 unique tokens: ['a', 'accident', 'after', 'allow', 'also']...)
Dictionary(82 unique tokens: ['a', 'above', 'also', 'and', 'biggest']...)
Dictionary(159 unique tokens: ['', 'a', 'afloat', 'air', 'airships']...)
Dictionary(52 unique tokens: ['allow', 'and', 'attempting', 'builders', 'buildin
g']...)
Dictionary(93 unique tokens: ['a', 'add', 'all', 'and', 'area']...)
Dictionary(126 unique tokens: ['a', 'against', 'age', 'air', 'airships']...)
Dictionary(115 unique tokens: ['', 'a', 'above', 'accident', 'allow']...)
Dictionary(125 unique tokens: ['a', 'able', 'after', 'air', 'airships']...)
Dictionary(107 unique tokens: ['a', 'against', 'air', 'airplanes', 'airships']...)
Dictionary(101 unique tokens: ['a', 'add', 'air', 'allow', 'also']...)
Dictionary(94 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(90 unique tokens: ['above', 'allow', 'and', 'are', 'around']...)
Dictionary(91 unique tokens: ['air', 'all', 'allow', 'also', 'around']...)
Dictionary(144 unique tokens: ['', 'a', 'add', 'air', 'al']...)
Dictionary(99 unique tokens: ['', 'a', 'about', 'above', 'accommodate']...)
Dictionary(92 unique tokens: ['', 'a', 'air', 'allow', 'always']...)
Dictionary(129 unique tokens: ['a', 'accident', 'advancing', 'air', 'airplanes']...)
Dictionary(113 unique tokens: ['a', 'above', 'adversities', 'air', 'allow']...)
Dictionary(160 unique tokens: ['', 'a', 'accidentally', 'against', 'airships']...)
Dictionary(121 unique tokens: ['', 'a', 'airships', 'al', 'altitude']...)
Dictionary(128 unique tokens: ['a', 'add', 'air', 'airships', 'al']...)
Dictionary(125 unique tokens: ['a', 'actually', 'al', 'all', 'allow']...)
Dictionary(148 unique tokens: ['a', 'about', 'above', 'add', 'air']...)
Dictionary(141 unique tokens: ['', 'a', 'abandoned', 'about', 'above']...)
Dictionary(119 unique tokens: ['a', 'abandonment', 'added', 'afloat', 'air']...)
Dictionary(59 unique tokens: ['a', 'and', 'blown', 'buildings', 'but']...)
Dictionary(133 unique tokens: ['a', 'above', 'air', 'all', 'allowing']...)
Dictionary(131 unique tokens: ['', 'a', 'able', 'age', 'al']...)
Dictionary(107 unique tokens: ['', 'a', 'accomidate', 'add', 'al']...)
Dictionary(117 unique tokens: ['a', 'able', 'against', 'air', 'airships']...)
Dictionary(130 unique tokens: ['a', 'add', 'age', 'al', 'allow']...)
Dictionary(127 unique tokens: ['', 'a', 'al', 'also', 'an']...)
Dictionary(60 unique tokens: ['a', 'adding', 'and', 'building', 'buildings']...)
Dictionary(83 unique tokens: ['a', 'against', 'airships', 'allow', 'always']...)
Dictionary(73 unique tokens: ['a', 'about', 'advances', 'and', 'as']...)
Dictionary(113 unique tokens: ['', 'a', 'against', 'airships', 'all']...)
Dictionary(73 unique tokens: ['add', 'and', 'builbing', 'buildings', 'builing']...)
Dictionary(106 unique tokens: ['', 'a', 'above', 'accident', 'added']...)
Dictionary(118 unique tokens: ['a', 'air', 'airships', 'allow', 'allowed']...)
Dictionary(106 unique tokens: ['a', 'accadent', 'after', 'all', 'allowing']...)
Dictionary(132 unique tokens: ['a', 'about', 'above', 'afraid', 'after']...)
```

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Dictionary(136 unique tokens: ['a', 'allow', 'also', 'and', 'around']...)
Dictionary(76 unique tokens: ['a', 'able', 'afraid', 'also', 'always']...)
Dictionary(131 unique tokens: ['a', 'across', 'acumulate', 'after', 'airships']...)
Dictionary(112 unique tokens: ['a', 'against', 'airships', 'allow', 'and']...)
Dictionary(120 unique tokens: ['a', 'across', 'against', 'airships', 'all']...)
Dictionary(109 unique tokens: ['a', 'add', 'after', 'air', 'all']...)
Dictionary(101 unique tokens: ['a', 'airships', 'allowing', 'and', 'another']...)
Dictionary(138 unique tokens: ['a', 'about', 'accident', 'add', 'addition']...)
Dictionary(102 unique tokens: ['a', 'above', 'allow', 'an', 'anchor']...)
Dictionary(131 unique tokens: ['a', 'about', 'against', 'airships', 'all']...)
Dictionary(73 unique tokens: ['a', 'allowing', 'and', 'another', 'been']...)
Dictionary(84 unique tokens: ['a', 'allow', 'and', 'another', 'architects']...)
Dictionary(105 unique tokens: ['accomidate', 'actual', 'air', 'allow', 'also']...)
Dictionary(129 unique tokens: ['a', 'able', 'about', 'according', 'against']...)
Dictionary(121 unique tokens: ['a', 'air', 'airships', 'allow', 'allowed']...)
Dictionary(134 unique tokens: ['a', 'above', 'accident', 'air', 'airships']...)
Dictionary(126 unique tokens: ['', 'a', 'accident', 'add', 'against']...)
Dictionary(170 unique tokens: ['', 'a', 'able', 'above', 'accident']...)
Dictionary(108 unique tokens: ['a', 'about', 'above', 'airships', 'al']...)
Dictionary(137 unique tokens: ['a', 'above', 'add', 'against', 'air']...)
Dictionary(85 unique tokens: ['a', 'air', 'airships', 'allow', 'another']...)
Dictionary(112 unique tokens: ['a', 'about', 'aggresively', 'always', 'and']...)
Dictionary(127 unique tokens: ['a', 'above', 'accomplish', 'against', 'air']...)
Dictionary(118 unique tokens: ['a', 'above', 'add', 'air', 'allow']...)
Dictionary(130 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(121 unique tokens: ['', 'a', 'add', 'air', 'al']...)
Dictionary(93 unique tokens: ['', 'a', 'adding', 'against', 'airships']...)
Dictionary(123 unique tokens: ['a', 'above', 'air', 'airships', 'allow']...)
Dictionary(114 unique tokens: ['a', 'added', 'against', 'airships', 'all']...)
Dictionary(121 unique tokens: ['', 'a', 'above', 'accident', 'allow']...)
Dictionary(110 unique tokens: ['', 'a', 'about', 'above', 'actually']...)
Dictionary(60 unique tokens: ['', 'allowing', 'also', 'an', 'and']...)
Dictionary(114 unique tokens: ['a', 'above', 'air', 'airships', 'allow']...)
Dictionary(114 unique tokens: ['a', 'able', 'absolutely', 'after', 'all']...)
Dictionary(97 unique tokens: ['a', 'accomplish', 'add', 'allow', 'amidon']...)
Dictionary(45 unique tokens: ['and', 'builders', 'building', 'develop', 'empire']...)
Dictionary(131 unique tokens: ['a', 'airships', 'allow', 'allowed', 'alone']...)
Dictionary(139 unique tokens: ['', 'a', 'against', 'airships', 'allow']...)
Dictionary(99 unique tokens: ['', 'a', 'against', 'air', 'airplanes']...)
Dictionary(112 unique tokens: ['a', 'able', 'add', 'added', 'adding']...)
Dictionary(107 unique tokens: ['a', 'added', 'also', 'and', 'as']...)
Dictionary(129 unique tokens: ['a', 'about', 'act', 'add', 'agree']...)
Dictionary(53 unique tokens: ['a', 'accomplished', 'area', 'be', 'big']...)
Dictionary(107 unique tokens: ['', 'a', 'able', 'add', 'al']...)
Dictionary(132 unique tokens: ['a', 'about', 'admit', 'aircraft', 'all']...)
Dictionary(83 unique tokens: ['', 'a', 'add', 'allow', 'amidon']...)
Dictionary(119 unique tokens: ['', 'a', 'affect', 'and', 'away']...)
Dictionary(106 unique tokens: ['a', 'accident', 'against', 'air', 'allow']...)
Dictionary(145 unique tokens: ['a', 'about', 'above', 'actually', 'airships']...)
Dictionary(131 unique tokens: ['', 'a', 'addition', 'air', 'all']...)
Dictionary(120 unique tokens: ['', 'a', 'about', 'add', 'added']...)
Dictionary(105 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(92 unique tokens: ['a', 'above', 'air', 'anchor', 'and']...)
Dictionary(123 unique tokens: ['a', 'against', 'airships', 'allowing', 'an']...)
Dictionary(102 unique tokens: ['a', 'add', 'allow', 'alot', 'an']...)
Dictionary(127 unique tokens: ['a', 'accident', 'affect', 'air', 'all']...)
Dictionary(197 unique tokens: ['a', 'above', 'actual', 'add', 'added']...)
Dictionary(74 unique tokens: ['above', 'against', 'air', 'airships', 'allow']...)
Dictionary(98 unique tokens: ['a', 'air', 'all', 'allow', 'and']...)
Dictionary(135 unique tokens: ['a', 'above', 'accident', 'accommodate', 'air']...)
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Dictionary(113 unique tokens: ['a', 'ability', 'above', 'add', 'air']...)
Dictionary(107 unique tokens: ['a', 'able', 'above', 'air', 'and']...)
Dictionary(86 unique tokens: ['a', 'al', 'announces', 'another', 'be']...)
Dictionary(69 unique tokens: ['a', 'allow', 'and', 'another', 'area']...)
Dictionary(142 unique tokens: ['a', 'about', 'actually', 'add', 'all']...)
Dictionary(108 unique tokens: ['', 'a', 'air', 'all', 'and']...)
Dictionary(109 unique tokens: ['a', 'air', 'allow', 'also', 'an']...)
Dictionary(88 unique tokens: ['', 'a', 'accommodate', 'add', 'airship']...)
Dictionary(123 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(104 unique tokens: ['a', 'above', 'add', 'allow', 'also']...)
Dictionary(105 unique tokens: ['a', 'about', 'against', 'air', 'allow']...)
Dictionary(60 unique tokens: ['', 'a', 'add', 'also', 'and']...)
Dictionary(132 unique tokens: ['a', 'above', 'accident', 'add', 'air']...)
Dictionary(89 unique tokens: ['a', 'actually', 'all', 'allow', 'and']...)
Dictionary(51 unique tokens: ['aircraft', 'allow', 'attempting', 'builders', 'buildin
g']...)
Dictionary(138 unique tokens: ['a', 'about', 'above', 'aircrafts', 'all']...)
Dictionary(90 unique tokens: ['a', 'able', 'aircraft', 'allow', 'altitude']...)
Dictionary(119 unique tokens: ['', 'a', 'against', 'airships', 'all']...)
Dictionary(61 unique tokens: ['actually', 'all', 'allow', 'and', 'attempting']...)
Dictionary(104 unique tokens: ['', 'a', 'and', 'area', 'at']...)
Dictionary(81 unique tokens: ['a', 'against', 'air', 'allow', 'alot']...)
Dictionary(126 unique tokens: ['', 'aboard', 'against', 'air', 'airship']...)
Dictionary(112 unique tokens: ['a', 'above', 'allow', 'amount', 'and']...)
Dictionary(73 unique tokens: ['a', 'against', 'air', 'airships', 'an']...)
Dictionary(113 unique tokens: ['a', 'accident', 'accumulated', 'adding', 'al']...)
Dictionary(100 unique tokens: ['a', 'air', 'also', 'as', 'attached']...)
Dictionary(97 unique tokens: ['a', 'add', 'allow', 'also', 'approach']...)
Dictionary(86 unique tokens: ['a', 'all', 'allow', 'also', 'amidon']...)
Dictionary(116 unique tokens: ['a', 'accommodate', 'add', 'addition', 'allow']...)
Dictionary(125 unique tokens: ['a', 'additionally', 'air', 'all', 'allow']...)
Dictionary(92 unique tokens: ['a', 'allow', 'also', 'as', 'attempting']...)
Dictionary(109 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(125 unique tokens: ['', 'a', 'abandoned', 'added', 'air']...)
Dictionary(143 unique tokens: ['a', 'above', 'accident', 'acommodate', 'air']...)
Dictionary(117 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(98 unique tokens: ['a', 'able', 'about', 'actually', 'all']...)
Dictionary(113 unique tokens: ['a', 'al', 'all', 'and', 'architects']...)
Dictionary(103 unique tokens: ['', 'above', 'amidon', 'architects', 'balloons']...)
Dictionary(121 unique tokens: ['', 'a', 'added', 'allow', 'allowed']...)
Dictionary(87 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(110 unique tokens: ['', 'a', 'above', 'add', 'added']...)
Dictionary(143 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(70 unique tokens: ['', 'a', 'alot', 'also', 'and']...)
Dictionary(108 unique tokens: ['a', 'airships', 'allow', 'an', 'and']...)
Dictionary(133 unique tokens: ['a', 'above', 'accident', 'actually', 'against']...)
Dictionary(137 unique tokens: ['', 'a', 'accident', 'action', 'against']...)
Dictionary(115 unique tokens: ['a', 'added', 'airplane', 'al', 'also']...)
Dictionary(99 unique tokens: ['', 'a', 'above', 'against', 'air']...)
Dictionary(114 unique tokens: ['', 'a', 'al', 'all', 'also']...)
Dictionary(115 unique tokens: ['a', 'accommodate', 'add', 'after', 'all']...)
Dictionary(123 unique tokens: ['a', 'accident', 'against', 'airships', 'all']...)
Dictionary(74 unique tokens: ['', 'add', 'air', 'alot', 'also']...)
Dictionary(110 unique tokens: ['a', 'about', 'acording', 'altitude', 'amidon']...)
Dictionary(134 unique tokens: ['', 'a', 'above', 'accident', 'against']...)
Dictionary(104 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(116 unique tokens: ['a', 'against', 'airships', 'amidon', 'and']...)
Dictionary(82 unique tokens: ['a', 'allow', 'also', 'and', 'at']...)
Dictionary(128 unique tokens: ['', 'a', 'about', 'against', 'airships']...)
Dictionary(104 unique tokens: ['a', 'accident', 'affect', 'airships', 'all']...)
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Dictionary(77 unique tokens: ['+', 'a', 'able', 'all', 'an']...)
Dictionary(114 unique tokens: ['a', 'all', 'allow', 'although', 'amidon']...)
Dictionary(116 unique tokens: ['a', 'all', 'and', 'another', 'around']...)
Dictionary(129 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(139 unique tokens: ['', 'a', 'accommodate', 'according', 'actually']...)
Dictionary(62 unique tokens: ['+', 'a', 'about', 'allow', 'areas']...)
Dictionary(117 unique tokens: ['a', 'able', 'accident', 'air', 'airships']...)
Dictionary(150 unique tokens: ['a', 'about', 'account', 'after', 'airships']...)
Dictionary(80 unique tokens: ['a', 'above', 'aircrafts', 'all', 'amount']...)
Dictionary(135 unique tokens: ['', 'a', 'able', 'after', 'al']...)
Dictionary(141 unique tokens: ['a', 'according', 'after', 'against', 'airships']...)
Dictionary(164 unique tokens: ['a', 'able', 'above', 'accommodate', 'adjust']...)
Dictionary(132 unique tokens: ['a', 'accommodate', 'al', 'all', 'also']...)
Dictionary(87 unique tokens: ['a', 'about', 'above', 'accident', 'air']...)
Dictionary(108 unique tokens: ['a', 'add', 'air', 'all', 'alone']...)
Dictionary(113 unique tokens: ['', 'a', 'add', 'and', 'another']...)
Dictionary(122 unique tokens: ['a', 'able', 'accommodate', 'airships', 'an']...)
Dictionary(91 unique tokens: ['a', 'aircraft', 'an', 'and', 'another']...)
Dictionary(56 unique tokens: ['a', 'air', 'allowing', 'area', 'back']...)
Dictionary(57 unique tokens: ['a', 'and', 'as', 'back', 'because']...)
Dictionary(103 unique tokens: ['a', 'air', 'amidon', 'and', 'another']...)
Dictionary(106 unique tokens: ['a', 'add', 'air', 'airships', 'along']...)
Dictionary(95 unique tokens: ['above', 'add', 'against', 'airships', 'allow']...)
Dictionary(90 unique tokens: ['a', 'and', 'area', 'as', 'because']...)
Dictionary(102 unique tokens: ['', 'a', 'about', 'accident', 'after']...)
Dictionary(123 unique tokens: ['', 'a', 'accident', 'against', 'allowing']...)
Dictionary(94 unique tokens: ['a', 'and', 'area', 'attempting', 'be']...)
Dictionary(94 unique tokens: ['a', 'about', 'al', 'and', 'because']...)
Dictionary(102 unique tokens: ['a', 'all', 'allow', 'and', 'another']...)
Dictionary(94 unique tokens: ['a', 'about', 'also', 'and', 'as']...)
Dictionary(115 unique tokens: ['a', 'able', 'achieved', 'age', 'allow']...)
Dictionary(120 unique tokens: ['', 'a', 'accommodate', 'add', 'after']...)
Dictionary(112 unique tokens: ['a', 'above', 'accommodate', 'against', 'air']...)
Dictionary(125 unique tokens: ['', 'a', 'add', 'air', 'al']...)
Dictionary(83 unique tokens: ['a', 'all', 'allow', 'and', 'architects']...)
Dictionary(117 unique tokens: ['a', 'across', 'actually', 'added', 'against']...)
Dictionary(93 unique tokens: ['', 'a', 'above', 'accident', 'after']...)
Dictionary(68 unique tokens: ['a', 'allow', 'allowing', 'an', 'and']...)
Dictionary(101 unique tokens: ['all', 'also', 'and', 'another', 'away']...)
Dictionary(101 unique tokens: ['a', 'able', 'accommodate', 'all', 'allow']...)
Dictionary(99 unique tokens: ['a', 'airships', 'allow', 'already', 'and']...)
Dictionary(96 unique tokens: ['a', 'add', 'against', 'airships', 'allow']...)
Dictionary(107 unique tokens: ['a', 'above', 'after', 'against', 'air']...)
Dictionary(102 unique tokens: ['a', 'accommodate', 'add', 'allow', 'almost']...)
Dictionary(119 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(112 unique tokens: ['a', 'able', 'actually', 'affect', 'against']...)
Dictionary(77 unique tokens: ['a', 'all', 'and', 'architects', 'bad']...)
Dictionary(95 unique tokens: ['a', 'add', 'all', 'allow', 'and']...)
Dictionary(129 unique tokens: ['', 'a', 'above', 'against', 'air']...)
Dictionary(72 unique tokens: ['alot', 'and', 'be', 'blimps', 'build']...)
Dictionary(102 unique tokens: ['a', 'air', 'allow', 'and', 'another']...)
Dictionary(60 unique tokens: ['a', 'also', 'be', 'because', 'below']...)
Dictionary(119 unique tokens: ['', 'a', 'about', 'above', 'although']...)
Dictionary(92 unique tokens: ['a', 'act', 'addition', 'against', 'air']...)
Dictionary(124 unique tokens: ['a', 'added', 'against', 'air', 'airships']...)
Dictionary(133 unique tokens: ['a', 'aircraft', 'already', 'an', 'and']...)
Dictionary(116 unique tokens: ['a', 'about', 'added', 'airships', 'al']...)
Dictionary(48 unique tokens: ['base', 'based', 'builders', 'building', 'excerpt']...)
Dictionary(107 unique tokens: ['a', 'after', 'aircrafts', 'already', 'also']...)
Dictionary(168 unique tokens: ['', 'above', 'against', 'air', 'airships']...)
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Dictionary(95 unique tokens: ['a', 'added', 'allow', 'anchor', 'and']...)
Dictionary(89 unique tokens: ['a', 'about', 'above', 'after', 'against']...)
Dictionary(141 unique tokens: ['a', 'add', 'after', 'against', 'aircraft']...)
Dictionary(101 unique tokens: ['a', 'allow', 'also', 'amidon', 'an']...)
Dictionary(124 unique tokens: ['', 'a', 'about', 'above', 'accident']...)
Dictionary(106 unique tokens: ['a', 'add', 'air', 'aircrafts', 'also']...)
Dictionary(119 unique tokens: ['a', 'above', 'across', 'against', 'airship']...)
Dictionary(132 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(146 unique tokens: ['a', 'account', 'airplane', 'airships', 'al']...)
Dictionary(64 unique tokens: ['and', 'apparent', 'because', 'been', 'before']...)
Dictionary(126 unique tokens: ['a', 'abundance', 'all', 'allow', 'amidon']...)
Dictionary(70 unique tokens: ['a', 'all', 'allow', 'almost', 'and']...)
Dictionary(135 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
Dictionary(97 unique tokens: ['a', 'ability', 'add', 'airships', 'amidon']...)
Dictionary(111 unique tokens: ['', 'a', 'about', 'accident', 'add']...)
Dictionary(74 unique tokens: ['a', 'accommodate', 'allow', 'and', 'are']...)
Dictionary(47 unique tokens: ['and', 'builders', 'building', 'come', 'empire']...)
Dictionary(126 unique tokens: ['', 'a', 'add', 'affect', 'affected']...)
Dictionary(106 unique tokens: ['a', 'accident', 'against', 'air', 'airships']...)
Dictionary(117 unique tokens: ['a', 'accident', 'account', 'all', 'already']...)
Dictionary(132 unique tokens: ['a', 'above', 'accident', 'air', 'airships']...)
Dictionary(119 unique tokens: ['a', 'air', 'aircraft', 'always', 'amidon']...)
Dictionary(130 unique tokens: ['a', 'above', 'accident', 'accommodate', 'add']...)
Dictionary(81 unique tokens: ['a', 'allow', 'also', 'amidon', 'an']...)
Dictionary(116 unique tokens: ['a', 'above', 'accident', 'add', 'after']...)
Dictionary(117 unique tokens: ['a', 'adds', 'allow', 'amidon', 'and']...)
Dictionary(101 unique tokens: ['a', 'air', 'aircraft', 'an', 'and']...)
Dictionary(128 unique tokens: ['a', 'above', 'actually', 'air', 'al']...)
Dictionary(136 unique tokens: ['a', 'above', 'air', 'airships', 'allow']...)
Dictionary(66 unique tokens: ['allow', 'another', 'are', 'at', 'back']...)
Dictionary(125 unique tokens: ['a', 'add', 'air', 'all', 'allow']...)
Dictionary(121 unique tokens: ['a', 'addition', 'airships', 'all', 'allow']...)
Dictionary(92 unique tokens: ['a', 'able', 'afraid', 'air', 'allow']...)
Dictionary(103 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(116 unique tokens: ['a', 'accommodate', 'achieve', 'addition', 'allo
w']...)
Dictionary(67 unique tokens: ['against', 'air', 'airships', 'also', 'an']...)
Dictionary(84 unique tokens: ['a', 'about', 'above', 'add', 'affect']...)
Dictionary(125 unique tokens: ['a', 'above', 'accommodate', 'added', 'air']...)
Dictionary(83 unique tokens: ['above', 'allow', 'anchored', 'another', 'around']...)
Dictionary(118 unique tokens: ['a', 'against', 'airships', 'all', 'allow']...)
Dictionary(114 unique tokens: ['a', 'absolute', 'also', 'an', 'and']...)
Dictionary(82 unique tokens: ['a', 'all', 'also', 'amidon', 'and']...)
Dictionary(46 unique tokens: ['and', 'caused', 'had', 'he', 'never']...)
Dictionary(107 unique tokens: ['', 'a', 'airships', 'all', 'also']...)
Dictionary(74 unique tokens: ['allow', 'also', 'and', 'another', 'attempt']...)
Dictionary(118 unique tokens: ['a', 'against', 'airships', 'al', 'allow']...)
Dictionary(115 unique tokens: ['a', 'add', 'added', 'also', 'and']...)
Dictionary(154 unique tokens: ['a', 'accident', 'accommodate', 'all', 'an']...)
Dictionary(134 unique tokens: ['', 'a', 'above', 'add', 'against']...)
Dictionary(116 unique tokens: ['a', 'above', 'allow', 'also', 'amidon']...)
Dictionary(131 unique tokens: ['', 'a', 'accomplishing', 'against', 'air']...)
Dictionary(108 unique tokens: ['', 'a', 'about', 'actually', 'added']...)
Dictionary(108 unique tokens: ['a', 'accommodate', 'all', 'allow', 'also']...)
Dictionary(111 unique tokens: ['a', 'accident', 'also', 'always', 'an']...)
Dictionary(117 unique tokens: ['a', 'about', 'add', 'air', 'allow']...)
Dictionary(108 unique tokens: ['a', 'against', 'air', 'al', 'an']...)
Dictionary(152 unique tokens: ['', 'a', 'add', 'added', 'air']...)
Dictionary(146 unique tokens: ['a', 'able', 'above', 'according', 'add']...)
Dictionary(105 unique tokens: ['a', 'add', 'again', 'against', 'airships']...)
```

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Dictionary(86 unique tokens: ['', 'accommodations', 'add', 'adding', 'all']...)
Dictionary(101 unique tokens: ['a', 'above', 'airships', 'allow', 'allowing']...)
Dictionary(94 unique tokens: ['', 'a', 'about', 'allow', 'an']...)
Dictionary(72 unique tokens: ['a', 'accident', 'all', 'allow', 'an']...)
Dictionary(82 unique tokens: ['above', 'accident', 'apparent', 'area', 'as']...)
Dictionary(72 unique tokens: ['a', 'across', 'airship', 'allow', 'and']...)
Dictionary(87 unique tokens: ['accommodate', 'against', 'air', 'airships', 'allo
w']...)
Dictionary(67 unique tokens: ['able', 'actual', 'also', 'and', 'be']...)
Dictionary(78 unique tokens: ['', 'a', 'all', 'allow', 'also']...)
Dictionary(70 unique tokens: ['a', 'about', 'allow', 'and', 'are']...)
Dictionary(69 unique tokens: ['a', 'air', 'architects', 'area', 'builders']...)
Dictionary(116 unique tokens: ['a', 'about', 'against', 'air', 'airships']...)
Dictionary(127 unique tokens: ['a', 'accommodate', 'add', 'adding', 'al']...)
Dictionary(131 unique tokens: ['', 'a', 'above', 'added', 'al']...)
Dictionary(109 unique tokens: ['a', 'above', 'according', 'add', 'against']...)
Dictionary(130 unique tokens: ['a', 'above', 'add', 'air', 'all']...)
Dictionary(120 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(120 unique tokens: ['a', 'aborted', 'according', 'added', 'addition']...)
Dictionary(99 unique tokens: ['a', 'add', 'against', 'air', 'airships']...)
Dictionary(75 unique tokens: ['a', 'aircrafts', 'allowed', 'also', 'and']...)
Dictionary(47 unique tokens: ['always', 'big', 'building', 'but', 'design']...)
Dictionary(107 unique tokens: ['a', 'above', 'allowing', 'alone', 'an']...)
Dictionary(56 unique tokens: ['air', 'allow', 'also', 'attempting', 'being']...)
Dictionary(110 unique tokens: ['a', 'above', 'add', 'against', 'air']...)
Dictionary(95 unique tokens: ['a', 'about', 'accumulated', 'add', 'amidon']...)
Dictionary(123 unique tokens: ['a', 'about', 'accident', 'accomplish', 'actuall
y']...)
Dictionary(100 unique tokens: ['a', 'accommodate', 'al', 'all', 'ancker']...)
Dictionary(146 unique tokens: ['', 'a', 'accordance', 'according', 'added']...)
Dictionary(94 unique tokens: ['a', 'above', 'accident', 'allow', 'also']...)
Dictionary(88 unique tokens: ['', 'a', 'allowing', 'also', 'an']...)
Dictionary(90 unique tokens: ['a', 'all', 'allow', 'and', 'another']...)
Dictionary(66 unique tokens: ['against', 'airships', 'also', 'and', 'arrangement
s']...)
Dictionary(111 unique tokens: ['a', 'about', 'air', 'airships', 'also']...)
Dictionary(114 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(189 unique tokens: ['', 'a', 'above', 'accident', 'after']...)
Dictionary(123 unique tokens: ['a', 'above', 'accident', 'affecting', 'airships']...)
Dictionary(68 unique tokens: ['amidon', 'and', 'be', 'big', 'builders']...)
Dictionary(87 unique tokens: ['a', 'air', 'also', 'and', 'attach']...)
Dictionary(98 unique tokens: ['', 'a', 'against', 'airships', 'allow']...)
Dictionary(118 unique tokens: ['a', 'above', 'against', 'airships', 'al']...)
Dictionary(123 unique tokens: ['a', 'allow', 'and', 'angeles', 'another']...)
Dictionary(53 unique tokens: ['and', 'attempting', 'be', 'because', 'been']...)
Dictionary(115 unique tokens: ['a', 'accommodate', 'add', 'airships', 'all']...)
Dictionary(78 unique tokens: ['allow', 'and', 'are', 'around', 'attempting']...)
Dictionary(136 unique tokens: ['a', 'also', 'although', 'and', 'angeles']...)
Dictionary(137 unique tokens: ['', 'a', 'accomplish', 'against', 'air']...)
Dictionary(145 unique tokens: ['', 'a', 'above', 'air', 'al']...)
Dictionary(85 unique tokens: ['', 'a', 'add', 'airships', 'al']...)
Dictionary(94 unique tokens: ['a', 'airships', 'allow', 'and', 'another']...)
Dictionary(102 unique tokens: ['a', 'accident', 'ahead', 'an', 'and']...)
Dictionary(144 unique tokens: ['a', 'accommodate', 'add', 'added', 'al']...)
Dictionary(133 unique tokens: ['', 'a', 'above', 'against', 'air']...)
Dictionary(72 unique tokens: ['a', 'and', 'be', 'because', 'big']...)
Dictionary(81 unique tokens: ['a', 'against', 'air', 'airship', 'angeles']...)
Dictionary(98 unique tokens: ['a', 'additional', 'against', 'airships', 'allow']...)
Dictionary(122 unique tokens: ['a', 'accommodate', 'against', 'air', 'airships']...)
Dictionary(92 unique tokens: ['a', 'accident', 'al', 'allow', 'allowing']...)
```

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Dictionary(131 unique tokens: ['', 'a', 'about', 'above', 'after']...)
Dictionary(105 unique tokens: ['a', 'above', 'air', 'allow', 'already']...)
Dictionary(36 unique tokens: ['builders', 'faced', 'the', '', 'allowing']...)
Dictionary(119 unique tokens: ['a', 'accommodate', 'after', 'air', 'al']...)
Dictionary(62 unique tokens: ['a', 'add', 'allow', 'and', 'at']...)
Dictionary(90 unique tokens: ['a', 'and', 'are', 'around', 'balloon']...)
Dictionary(113 unique tokens: ['a', 'air', 'all', 'allow', 'and']...)
Dictionary(84 unique tokens: ['a', 'accommodate', 'all', 'and', 'as']...)
Dictionary(136 unique tokens: ['a', 'able', 'added', 'against', 'aircrafts']...)
Dictionary(128 unique tokens: ['', 'a', 'acomidations', 'adding', 'after']...)
Dictionary(147 unique tokens: ['', 'a', 'air', 'along', 'also']...)
Dictionary(117 unique tokens: ['a', 'accomadate', 'additinoal', 'addition', 'al']...)
Dictionary(106 unique tokens: ['', 'according', 'add', 'added', 'air']...)
Dictionary(106 unique tokens: ['a', 'above', 'actually', 'added', 'adding']...)
Dictionary(106 unique tokens: ['a', 'above', 'again', 'air', 'al']...)
Dictionary(73 unique tokens: ['able', 'also', 'an', 'and', 'be']...)
Dictionary(74 unique tokens: ['a', 'addition', 'additional', 'allow', 'attempt']...)
Dictionary(113 unique tokens: ['a', 'acceptable', 'account', 'air', 'all']...)
Dictionary(128 unique tokens: ['a', 'above', 'achieve', 'after', 'air']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'after']...)
Dictionary(92 unique tokens: ['a', 'add', 'and', 'architects', 'at']...)
Dictionary(61 unique tokens: ['against', 'air', 'airships', 'areas', 'building']...)
Dictionary(129 unique tokens: ['a', 'above', 'accident', 'accommodating', 'affec
t']...)
Dictionary(89 unique tokens: ['a', 'added', 'against', 'airplanes', 'airships']...)
Dictionary(114 unique tokens: ['a', 'about', 'against', 'air', 'airships']...)
Dictionary(126 unique tokens: ['a', 'about', 'aiming', 'air', 'always']...)
Dictionary(90 unique tokens: ['a', 'able', 'airships', 'all', 'allow']...)
Dictionary(199 unique tokens: ['a', 'above', 'air', 'aircraft', 'airships']...)
Dictionary(147 unique tokens: ['a', 'accidents', 'air', 'airships', 'allow']...)
Dictionary(104 unique tokens: ['a', 'adding', 'against', 'also', 'although']...)
Dictionary(149 unique tokens: ['a', 'air', 'airships', 'all', 'allow']...)
Dictionary(67 unique tokens: ['air', 'allow', 'and', 'another', 'around']...)
Dictionary(111 unique tokens: ['a', 'above', 'accident', 'against', 'aircraft']...)
Dictionary(77 unique tokens: ['above', 'against', 'air', 'airships', 'an']...)
Dictionary(106 unique tokens: ['a', 'able', 'accommodate', 'after', 'against']...)
Dictionary(105 unique tokens: ['', 'a', 'allow', 'also', 'and']...)
Dictionary(125 unique tokens: ['a', 'accident', 'against', 'airships', 'allow']...)
Dictionary(105 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(88 unique tokens: ['a', 'air', 'and', 'area', 'as']...)
Dictionary(135 unique tokens: ['', 'a', 'above', 'accommodate', 'add']...)
Dictionary(112 unique tokens: ['a', 'accommodate', 'adding', 'additional', 'afte
r']...)
Dictionary(117 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(129 unique tokens: ['a', 'ability', 'able', 'add', 'after']...)
Dictionary(136 unique tokens: ['', 'a', 'above', 'accident', 'accommodate']...)
Dictionary(116 unique tokens: ['', 'a', 'accident', 'air', 'aircraft']...)
Dictionary(114 unique tokens: ['a', 'added', 'addressed', 'all', 'and']...)
Dictionary(87 unique tokens: ['above', 'air', 'allow', 'and', 'around']...)
Dictionary(141 unique tokens: ['a', 'able', 'about', 'accumulating', 'add']...)
Dictionary(138 unique tokens: ['a', 'above', 'accident', 'after', 'air']...)
Dictionary(100 unique tokens: ['a', 'above', 'air', 'all', 'allow']...)
Dictionary(112 unique tokens: ['', 'able', 'accommidate', 'add', 'after']...)
Dictionary(155 unique tokens: ['', 'a', 'above', 'add', 'additionally']...)
Dictionary(143 unique tokens: ['a', 'accident', 'after', 'air', 'airships']...)
Dictionary(143 unique tokens: ['', 'a', 'above', 'again', 'against']...)
Dictionary(103 unique tokens: ['a', 'air', 'allow', 'amidon', 'amount']...)
Dictionary(102 unique tokens: ['a', 'actual', 'all', 'an', 'and']...)
Dictionary(109 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(91 unique tokens: ['', 'above', 'against', 'air', 'airship']...)
```

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Dictionary(108 unique tokens: ['addition', 'allow', 'allowing', 'also', 'an']...)
Dictionary(110 unique tokens: ['a', 'allow', 'allowing', 'an', 'angeles']...)
Dictionary(67 unique tokens: ['a', 'alot', 'altogether', 'and', 'attempt']...)
Dictionary(136 unique tokens: ['a', 'above', 'against', 'air', 'also']...)
Dictionary(117 unique tokens: ['', 'a', 'above', 'add', 'air']...)
Dictionary(136 unique tokens: ['a', 'able', 'accident', 'after', 'against']...)
Dictionary(128 unique tokens: ['', 'a', 'about', 'after', 'against']...)
Dictionary(86 unique tokens: ['', 'a', 'about', 'agood', 'air']...)
Dictionary(110 unique tokens: ['a', 'against', 'air', 'airship', 'airships']...)
Dictionary(105 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(56 unique tokens: ['all', 'allow', 'and', 'are', 'attempting']...)
Dictionary(48 unique tokens: ['allow', 'also', 'are', 'builders', 'building']...)
Dictionary(105 unique tokens: ['a', 'above', 'allowing', 'altleast', 'always']...)
Dictionary(80 unique tokens: ['', 'a', 'able', 'air', 'allow']...)
Dictionary(68 unique tokens: ['allow', 'and', 'attempting', 'builders', 'buildin
g']...)
Dictionary(120 unique tokens: ['a', 'add', 'added', 'against', 'airships']...)
Dictionary(113 unique tokens: ['', 'a', 'accident', 'accommodate', 'accomplishmen
t']...)
Dictionary(94 unique tokens: ['', 'a', 'accommodate', 'adds', 'al']...)
Dictionary(59 unique tokens: ['air', 'allow', 'and', 'around', 'attempting']...)
Dictionary(90 unique tokens: ['a', 'another', 'appling', 'bad', 'because']...)
Dictionary(71 unique tokens: ['a', 'against', 'airship', 'allow', 'an']...)
Dictionary(76 unique tokens: ['against', 'air', 'airships', 'allow', 'also']...)
Dictionary(144 unique tokens: ['a', 'add', 'all', 'allow', 'also']...)
Dictionary(116 unique tokens: ['', 'a', 'above', 'add', 'against']...)
Dictionary(146 unique tokens: ['', 'a', 'above', 'according', 'add']...)
Dictionary(110 unique tokens: ['able', 'actually', 'air', 'airship', 'allow']...)
Dictionary(124 unique tokens: ['a', 'above', 'accident', 'after', 'against']...)
Dictionary(150 unique tokens: ['a', 'able', 'above', 'accident', 'after']...)
Dictionary(72 unique tokens: ['a', 'accommodate', 'airships', 'already', 'and']...)
Dictionary(96 unique tokens: ['a', 'air', 'allow', 'also', 'an']...)
Dictionary(83 unique tokens: ['air', 'allow', 'and', 'another', 'attempting']...)
Dictionary(101 unique tokens: ['a', 'added', 'air', 'all', 'also']...)
Dictionary(117 unique tokens: ['a', 'above', 'accident', 'allowing', 'and']...)
Dictionary(147 unique tokens: ['a', 'about', 'above', 'accident', 'add']...)
Dictionary(102 unique tokens: ['a', 'against', 'al', 'and', 'another']...)
Dictionary(76 unique tokens: ['a', 'and', 'another', 'architects', 'at']...)
Dictionary(129 unique tokens: ['a', 'add', 'after', 'against', 'air']...)
Dictionary(91 unique tokens: ['a', 'allowed', 'allowing', 'anchoring', 'and']...)
Dictionary(105 unique tokens: ['a', 'across', 'airship', 'all', 'allow']...)
Dictionary(104 unique tokens: ['', 'a', 'add', 'adjustments', 'after']...)
Dictionary(182 unique tokens: ['', 'a', 'about', 'against', 'airships']...)
Dictionary(110 unique tokens: ['a', 'air', 'all', 'allowing', 'amidon']...)
Dictionary(116 unique tokens: ['a', 'able', 'after', 'all', 'allow']...)
Dictionary(120 unique tokens: ['', 'a', 'amount', 'angeles', 'another']...)
Dictionary(139 unique tokens: ['a', 'able', 'above', 'accident', 'against']...)
Dictionary(87 unique tokens: ['a', 'above', 'against', 'aircrafts', 'all']...)
Dictionary(97 unique tokens: ['a', 'airships', 'all', 'allow', 'and']...)
Dictionary(67 unique tokens: ['', 'a', 'alot', 'also', 'an']...)
Dictionary(118 unique tokens: ['a', 'accommodations', 'add', 'all', 'allow']...)
Dictionary(123 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(110 unique tokens: ['', 'a', 'add', 'al', 'all']...)
Dictionary(83 unique tokens: ['', 'a', 'able', 'an', 'and']...)
Dictionary(122 unique tokens: ['a', 'above', 'add', 'against', 'air']...)
Dictionary(81 unique tokens: ['accidents', 'also', 'and', 'as', 'ballons']...)
Dictionary(126 unique tokens: ['a', 'ablaze', 'able', 'aircraft', 'also']...)
Dictionary(109 unique tokens: ['', 'a', 'about', 'across', 'add']...)
Dictionary(115 unique tokens: ['a', 'able', 'above', 'accident', 'air']...)
Dictionary(113 unique tokens: ['a', 'able', 'above', 'added', 'air']...)
```

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Dictionary(86 unique tokens: ['a', 'accommodate', 'against', 'airships', 'allow']...)
Dictionary(115 unique tokens: ['', 'a', 'add', 'afixed', 'air']...)
Dictionary(87 unique tokens: ['accommodate', 'all', 'allow', 'and', 'as']...)
Dictionary(101 unique tokens: ['', 'accommodate', 'air', 'all', 'allow']...)
Dictionary(133 unique tokens: ['a', 'able', 'above', 'air', 'allow']...)
Dictionary(117 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(111 unique tokens: ['a', 'addition', 'also', 'and', 'another']...)
Dictionary(87 unique tokens: ['a', 'airships', 'all', 'allow', 'already']...)
Dictionary(111 unique tokens: ['a', 'air', 'al', 'also', 'among']...)
Dictionary(159 unique tokens: ['a', 'above', 'address', 'against', 'air']...)
Dictionary(109 unique tokens: ['a', 'able', 'air', 'airship', 'also']...)
Dictionary(96 unique tokens: ['a', 'against', 'aircraft', 'airships', 'an']...)
Dictionary(123 unique tokens: ['a', 'above', 'accesable', 'accommodate', 'air']...)
Dictionary(110 unique tokens: ['a', 'about', 'against', 'airships', 'all']...)
Dictionary(105 unique tokens: ['a', 'al', 'allowed', 'allowing', 'another']...)
Dictionary(121 unique tokens: ['a', 'about', 'airships', 'al', 'also']...)
Dictionary(142 unique tokens: ['a', 'above', 'accidents', 'accomidate', 'add']...)
Dictionary(174 unique tokens: ['', 'a', 'actual', 'air', 'airspace']...)
Dictionary(105 unique tokens: ['', 'a', 'account', 'air', 'al']...)
Dictionary(68 unique tokens: ['air', 'and', 'building', 'constantly', 'currents']...)
Dictionary(142 unique tokens: ['', 'a', 'accident', 'add', 'addition']...)
Dictionary(123 unique tokens: ['a', 'able', 'after', 'against', 'airships']...)
Dictionary(120 unique tokens: ['', 'a', 'above', 'action', 'against']...)
Dictionary(93 unique tokens: ['a', 'added', 'allow', 'also', 'an']...)
Dictionary(223 unique tokens: ['a', 'able', 'above', 'actually', 'add']...)
Dictionary(80 unique tokens: ['above', 'allow', 'and', 'around', 'attempting']...)
Dictionary(129 unique tokens: ['a', 'above', 'accident', 'according', 'airships']...)
Dictionary(114 unique tokens: ['a', 'about', 'access', 'air', 'all']...)
Dictionary(99 unique tokens: ['a', 'able', 'add', 'allow', 'and']...)
Dictionary(141 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
Dictionary(92 unique tokens: ['a', 'against', 'air', 'airships', 'already']...)
Dictionary(85 unique tokens: ['a', 'allow', 'and', 'architects', 'attempting']...)
Dictionary(76 unique tokens: ['a', 'about', 'accommodate', 'also', 'and']...)
Dictionary(81 unique tokens: ['a', 'add', 'added', 'all', 'and']...)
Dictionary(108 unique tokens: ['a', 'add', 'air', 'all', 'allow']...)
Dictionary(117 unique tokens: ['a', 'above', 'accidently', 'added', 'allow']...)
Dictionary(95 unique tokens: ['a', 'account', 'add', 'alas', 'allow']...)
Dictionary(73 unique tokens: ['a', 'and', 'around', 'back', 'bad']...)
Dictionary(51 unique tokens: ['', 'a', 'as', 'at', 'being']...)
Dictionary(109 unique tokens: ['', 'a', 'added', 'al', 'allow']...)
Dictionary(145 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(55 unique tokens: ['a', 'architects', 'balloon', 'be', 'blowing']...)
Dictionary(40 unique tokens: ['argumentsconfusment', 'building', 'caps', 'faced', 'i
t']...)
Dictionary(119 unique tokens: ['', 'a', 'against', 'air', 'airships']...)
Dictionary(116 unique tokens: ['a', 'able', 'air', 'allow', 'also']...)
Dictionary(138 unique tokens: ['', 'a', 'able', 'about', 'air']...)
Dictionary(94 unique tokens: ['a', 'accommodate', 'air', 'and', 'are']...)
Dictionary(122 unique tokens: ['a', 'accommodate', 'accomplish', 'add', 'air']...)
Dictionary(124 unique tokens: ['a', 'accomplishment', 'again', 'against', 'aircraf
t']...)
Dictionary(48 unique tokens: ['', 'a', 'also', 'always', 'and']...)
Dictionary(121 unique tokens: ['a', 'against', 'airships', 'allow', 'also']...)
Dictionary(141 unique tokens: ['a', 'above', 'accident', 'accomadate', 'against']...)
Dictionary(93 unique tokens: ['a', 'air', 'all', 'and', 'another']...)
Dictionary(134 unique tokens: ['a', 'above', 'addition', 'advanced', 'aircrafts']...)
Dictionary(129 unique tokens: ['', 'a', 'air', 'airships', 'al']...)
Dictionary(77 unique tokens: ['and', 'apart', 'are', 'at', 'bad']...)
Dictionary(108 unique tokens: ['a', 'add', 'air', 'all', 'allow']...)
Dictionary(134 unique tokens: ['', 'a', 'above', 'accident', 'air']...)
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Dictionary(107 unique tokens: ['a', 'accommodate', 'add', 'adding', 'addition']...)
Dictionary(122 unique tokens: ['a', 'about', 'airships', 'allow', 'although']...)
Dictionary(89 unique tokens: ['a', 'add', 'al', 'allow', 'and']...)
Dictionary(102 unique tokens: ['a', 'airships', 'all', 'altitudes', 'an']...)
Dictionary(95 unique tokens: ['a', 'about', 'airships', 'allow', 'also']...)
Dictionary(103 unique tokens: ['', 'a', 'add', 'air', 'and']...)
Dictionary(68 unique tokens: ['a', 'accross', 'are', 'building', 'built']...)
Dictionary(117 unique tokens: ['about', 'air', 'airships', 'allow', 'allowed']...)
Dictionary(113 unique tokens: ['a', 'about', 'aircraft', 'all', 'and']...)
Dictionary(116 unique tokens: ['a', 'above', 'after', 'air', 'airships']...)
Dictionary(126 unique tokens: ['a', 'according', 'after', 'aircraft', 'all']...)
Dictionary(91 unique tokens: ['a', 'another', 'architects', 'are', 'bad']...)
Dictionary(109 unique tokens: ['a', 'about', 'air', 'all', 'allow']...)
Dictionary(115 unique tokens: ['', 'a', 'air', 'allow', 'amidon']...)
Dictionary(143 unique tokens: ['', 'a', 'achieved', 'after', 'air']...)
Dictionary(109 unique tokens: ['', 'a', 'acting', 'after', 'aircraft']...)
Dictionary(66 unique tokens: ['against', 'airships', 'allow', 'another', 'areas']...)
Dictionary(113 unique tokens: ['', 'a', 'able', 'against', 'airships']...)
Dictionary(146 unique tokens: ['', 'a', 'above', 'accident', 'add']...)
Dictionary(47 unique tokens: ['building', 'caps', 'fufill', 'future', 'in']...)
Dictionary(153 unique tokens: ['a', 'accommodate', 'after', 'against', 'air']...)
Dictionary(129 unique tokens: ['', 'a', 'able', 'above', 'accident']...)
Dictionary(70 unique tokens: ['a', 'allow', 'an', 'and', 'architects']...)
Dictionary(148 unique tokens: ['', 'a', 'accident', 'added', 'adding']...)
Dictionary(121 unique tokens: ['a', 'above', 'air', 'airships', 'allow']...)
Dictionary(142 unique tokens: ['', 'a', 'about', 'against', 'air']...)
Dictionary(160 unique tokens: ['', 'a', 'above', 'add', 'after']...)
Dictionary(127 unique tokens: ['a', 'accident', 'accommodate', 'accomplished', 'ai
r']...)
Dictionary(101 unique tokens: ['a', 'air', 'and', 'another', 'be']...)
Dictionary(177 unique tokens: ['a', 'able', 'about', 'against', 'air']...)
Dictionary(124 unique tokens: ['a', 'add', 'adding', 'air', 'airship']...)
Dictionary(123 unique tokens: ['', 'a', 'accommodate', 'add', 'again']...)
Dictionary(98 unique tokens: ['', 'a', 'accident', 'air', 'allow']...)
Dictionary(121 unique tokens: ['a', 'able', 'add', 'aircraft', 'al']...)
Dictionary(88 unique tokens: ['a', 'about', 'add', 'air', 'alot']...)
Dictionary(47 unique tokens: ['building', 'caps', 'condition', 'dangerous', 'da
y']...)
Dictionary(110 unique tokens: ['a', 'after', 'air', 'allow', 'also']...)
Dictionary(105 unique tokens: ['a', 'above', 'against', 'air', 'airships']...)
Dictionary(132 unique tokens: ['a', 'accommodate', 'add', 'al', 'alot']...)
Dictionary(134 unique tokens: ['a', 'against', 'air', 'airships', 'allow']...)
Dictionary(139 unique tokens: ['', 'a', 'able', 'accident', 'airships']...)
Dictionary(92 unique tokens: ['a', 'all', 'also', 'and', 'another']...)
Dictionary(125 unique tokens: ['a', 'add', 'against', 'allowing', 'also']...)
Dictionary(82 unique tokens: ['against', 'air', 'airship', 'airships', 'amidon']...)
Dictionary(144 unique tokens: ['', 'a', 'air', 'airship', 'airships']...)
Dictionary(129 unique tokens: ['', 'a', 'add', 'allow', 'and']...)
Dictionary(126 unique tokens: ['', 'a', 'about', 'airships', 'al']...)
Dictionary(110 unique tokens: ['a', 'above', 'air', 'all', 'also']...)
Dictionary(98 unique tokens: ['', 'a', 'airships', 'angeles', 'another']...)
Dictionary(139 unique tokens: ['a', 'accident', 'additional', 'al', 'allow']...)
Dictionary(154 unique tokens: ['a', 'ability', 'above', 'air', 'al']...)
Dictionary(145 unique tokens: ['a', 'about', 'accident', 'addition', 'against']...)
Dictionary(70 unique tokens: ['a', 'added', 'also', 'be', 'better']...)
Dictionary(115 unique tokens: ['a', 'accommodate', 'additional', 'air', 'airshi
p']...)
Dictionary(89 unique tokens: ['a', 'above', 'accident', 'adding', 'allow']...)
Dictionary(108 unique tokens: ['', 'a', 'accommodate', 'air', 'allow']...)
Dictionary(76 unique tokens: ['a', 'and', 'areas', 'back', 'be']...)
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Dictionary(57 unique tokens: ['and', 'because', 'builders', 'building', 'caps']...)
Dictionary(157 unique tokens: ['a', 'above', 'accident', 'affect', 'again']...)
Dictionary(109 unique tokens: ['', 'a', 'air', 'already', 'also']...)
Dictionary(134 unique tokens: ['a', 'aircrafts', 'airspace', 'all', 'and']...)
Dictionary(141 unique tokens: ['', 'a', 'accommodate', 'add', 'against']...)
Dictionary(95 unique tokens: ['a', 'add', 'all', 'allow', 'and']...)
Dictionary(75 unique tokens: ['a', 'anothe', 'architects', 'because', 'been']...)
Dictionary(86 unique tokens: ['a', 'add', 'although', 'architects', 'at']...)
Dictionary(142 unique tokens: ['a', 'about', 'above', 'accident', 'actually']...)
Dictionary(86 unique tokens: ['a', 'accommodate', 'add', 'allow', 'and']...)
Dictionary(124 unique tokens: ['a', 'accident', 'aircrafts', 'almost', 'also']...)
Dictionary(142 unique tokens: ['a', 'able', 'absolutely', 'add', 'against']...)
Dictionary(91 unique tokens: ['a', 'air', 'all', 'also', 'amidon']...)
Dictionary(108 unique tokens: ['a', 'add', 'air', 'are', 'around']...)
Dictionary(88 unique tokens: ['', 'a', 'above', 'added', 'and']...)
Dictionary(50 unique tokens: ['be', 'blimps', 'blow', 'buildings', 'caps']...)
Dictionary(105 unique tokens: ['a', 'air', 'airships', 'also', 'area']...)
Dictionary(118 unique tokens: ['a', 'ad', 'after', 'against', 'almost']...)
Dictionary(118 unique tokens: ['a', 'add', 'allow', 'also', 'an']...)
Dictionary(135 unique tokens: ['a', 'about', 'above', 'airships', 'allow']...)
Dictionary(115 unique tokens: ['a', 'able', 'all', 'aluminum', 'and']...)
Dictionary(162 unique tokens: ['', 'a', 'able', 'about', 'above']...)
Dictionary(113 unique tokens: ['a', 'about', 'air', 'airships', 'allow']...)
Dictionary(104 unique tokens: ['', 'a', 'air', 'airships', 'allow']...)
Dictionary(61 unique tokens: ['a', 'afloat', 'and', 'are', 'as']...)
Dictionary(118 unique tokens: ['a', 'accident', 'air', 'amongst', 'an']...)
Dictionary(137 unique tokens: ['', 'a', 'about', 'against', 'air']...)
Dictionary(124 unique tokens: ['', 'a', 'accomplished', 'against', 'airships']...)
Dictionary(94 unique tokens: ['a', 'add', 'air', 'all', 'an']...)
Dictionary(121 unique tokens: ['', 'a', 'accident', 'accommodate', 'air']...)
Dictionary(122 unique tokens: ['a', 'against', 'air', 'airships', 'all']...)
Dictionary(103 unique tokens: ['about', 'after', 'al', 'all', 'allowing']...)
Dictionary(116 unique tokens: ['able', 'about', 'after', 'against', 'air']...)
Dictionary(123 unique tokens: ['', 'a', 'again', 'air', 'allow']...)
Dictionary(85 unique tokens: ['', 'a', 'airships', 'allow', 'also']...)
Dictionary(105 unique tokens: ['a', 'all', 'always', 'and', 'architects']...)
Dictionary(77 unique tokens: ['', 'a', 'also', 'another', 'anything']...)
Dictionary(87 unique tokens: ['a', 'aircraft', 'allow', 'also', 'altitude']...)
Dictionary(74 unique tokens: ['a', 'agains', 'airships', 'although', 'an']...)
Dictionary(104 unique tokens: ['a', 'allow', 'also', 'another', 'are']...)
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```

In [19]:

```
import math
MSE = np.square(np.subtract(df2['domain1_score'],df2['score_bert'])).mean()
rsme = math.sqrt(MSE)
print("Root Mean Square Error for bert:\n")
print(rsme)
```

```
Root Mean Square Error for bert:

1.013456538533853
```

In [20]:

```
MSE = np.square(np.subtract(df2['domain1_score'],df2['new_score'])).mean()
rsme = math.sqrt(MSE)
print("Root Mean Square Error for bert2:\n")
print(rsme)
```

```
Root Mean Square Error for bert2:

0.9785325567382565
```

In [21]:
```
MSE = np.square(np.subtract(df2['domain1_score'],df2['score_LSA'])).mean()
rsme = math.sqrt(MSE)
print("Root Mean Square Error for LSA:\n")
print(rsme)
```

```
Root Mean Square Error for LSA:

2.185443389822579
```

In [22]:
```
MSE = np.square(np.subtract(df2['domain1_score'],df2['score_LDA'])).mean()
rsme = math.sqrt(MSE)
print("Root Mean Square Error for LDA:\n")
print(rsme)
```

```
Root Mean Square Error for LDA:

1.6560975116781451
```

In [23]:
```
MSE = np.square(np.subtract(df2['domain1_score'],df2['score_HDP'])).mean()
rsme = math.sqrt(MSE)
print("Root Mean Square Error for HDP:\n")
print(rsme)
```

```
Root Mean Square Error for HDP:

1.1542603171650812
```

In [24]:
```
df2.to_csv('p6_results.csv')
```

In [25]:
```
df2.head()
```

Out[25]:

	essay_set	domain1_score	new_score	score_LDA	score_LSA	score_HDP	score_bert
0	6	2.0	3.020883	3.997052	0.639205	3.401319	3.049155
1	6	3.0	3.02121	3.928695	0.877357	4.0	3.000493
2	6	4.0	2.900763	3.951851	0.684516	3.401745	3.366999
3	6	1.0	2.758068	3.957094	0.8885	4.0	2.702164
4	6	3.0	3.246371	3.999047	1.009309	3.400762	2.960927

In [26]:
```
'''df["LSA Score"] = df.apply(lambda row: get_similarity_using_lsa(row['essay'],expect
df.to_csv("out.csv",index=False)
df.head()'''
```

Out[26]:
```
'df["LSA Score"] = df.apply(lambda row: get_similarity_using_lsa(row[\'essay\'],expec
ted_answer,marks_org),axis=1 )\ndf.to_csv("out.csv",index=False)\ndf.head()'
```

In [27]:
```
'''df["LDA Score"] = df.apply(lambda row: get_similarity_using_lda(row['essay'],expect
df.to_csv("out.csv",index=False)
df.head()'''
```

Out[27]:
```
'df["LDA Score"] = df.apply(lambda row: get_similarity_using_lda(row[\'essay\'],expec
ted_answer,marks_org),axis=1 )\ndf.to_csv("out.csv",index=False)\ndf.head()'
```

In [28]:
```
'''df["BERT Score"]= df.apply(lambda row: get_similarity_using_bert(row['essay'],expec
df.to_csv("out.csv",index=False)
df.head()'''
```

Out[28]:
```
'df["BERT Score"]= df.apply(lambda row: get_similarity_using_bert(row[\'essay\'],expe
cted_answer,marks_org),axis=1)\ndf.to_csv("out.csv",index=False)\ndf.head()'
```

In [29]:
```
'''df["HDP score"]= df.apply(lambda row: get_similarity_using_HDP(row['essay'],expecte
df.to_csv("out.csv",index=False)
df.head()'''
```

Out[29]:
```
'df["HDP score"]= df.apply(lambda row: get_similarity_using_HDP(row[\'essay\'],expect
ed_answer,marks_org),axis=1)\ndf.to_csv("out.csv",index=False)\ndf.head()'
```

In [ ]:

In [ ]: