Mercari price Suggestion Challenge   ¶

Challenge Overview

In this competition, you will predict the sale price of a listing based on information a user provides for this listing.

Challenge Description:

Product pricing gets even harder at scale, considering just how many products are sold online. Clothing has strong seasonal pricing trends and is heavily influenced by brand names, while electronics have fluctuating prices based on product specs.

Mercari, Japan's biggest community-powered shopping app, knows this problem deeply. They'd like to offer pricing suggestions to sellers, but this is tough because their sellers are enabled to put just about anything, or any bundle of things, on Mercari's marketplace.

In this competition, Mercari's challenging you to build an algorithm that automatically suggests the right product prices.

Real world/Business Objectives and constraints

Objectives:

1. Predict the price of an item given its condition, decsription and other related features.
2. Minimize the difference between predicted and actual price (RMSLE)

Machine Learning Problem

Data

Data Overview

Get the data from : https://www.kaggle.com/c/mercari-price-suggestion-challenge/data

Data files :

- train.tsv
- test_stg2.tsv


```
        All these are tab-seperated files
```

Mapping the real world problem to a Machine Learning Problem

Type of Machine Learning Problem

```
    For a given item, we need to suggest the price of that item given its different
    features like category, name, brand name, item description etc.
    The given problem is a Regression problem
```

Type of problem: Regression

Error metric: RMSLE (Root Mean Square Logarithmic Error)

Machine Learning Objective and Constraints

1. Minimize RMSLE.
2. Try to provide some interpretability.

In [2]:

```python
import pandas as pd
import matplotlib.pyplot as plt
import re
import time
import warnings
import numpy as np
from nltk.corpus import stopwords
from sklearn.decomposition import TruncatedSVD
from sklearn.preprocessing import normalize
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.manifold import TSNE
import seaborn as sns
from sklearn.neighbors import KNeighborsClassifier
from sklearn.metrics import confusion_matrix
from sklearn.metrics.classification import accuracy_score, log_loss
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.linear_model import SGDClassifier
#from imblearn.over_sampling import SMOTE
from collections import Counter
from scipy.sparse import hstack
#from sklearn.multiclass import OneVsRestClassifier
from sklearn.svm import SVC
#from sklearn.cross_validation import StratifiedKFold
from sklearn.model_selection import StratifiedKFold
from collections import Counter, defaultdict
from sklearn.calibration import CalibratedClassifierCV
from sklearn.naive_bayes import MultinomialNB
from sklearn.naive_bayes import GaussianNB
from sklearn.model_selection import train_test_split
from sklearn.model_selection import GridSearchCV
import math
from sklearn.metrics import normalized_mutual_info_score
#from sklearn.ensemble import RandomForestClassifier
import seaborn as sns
sns.set_style('whitegrid')
import os
from scipy import sparse
from scipy.sparse import csr_matrix

from sklearn.decomposition import TruncatedSVD
from sklearn.metrics.pairwise import cosine_similarity
import random
from wordcloud import WordCloud
import nltk
from tqdm import tqdm
warnings.filterwarnings("ignore")

#from mlxtend.classifier import StackingClassifier

from sklearn import model_selection
from sklearn.linear_model import LogisticRegression
```

In [0]:

```python
# Code to read csv file into colaboratory:
!pip install -U -q PyDrive
from pydrive.auth import GoogleAuth
from pydrive.drive import GoogleDrive
from google.colab import auth
from oauth2client.client import GoogleCredentials
```

In [0]:

```python
auth.authenticate_user()
gauth = GoogleAuth()
gauth.credentials = GoogleCredentials.get_application_default()
drive = GoogleDrive(gauth)
```

In [0]:

```python
#2. Get the file
downloaded = drive.CreateFile({'id':'1ZO0pAlj8aFx3UKMTRe_QJ1xX13SE0Ehu'}) # replace the
id with id of file you want to access
downloaded.GetContentFile('train.tsv')
```

In [0]:

```python
#2. Get the file
downloaded = drive.CreateFile({'id':'1B0Qv9N997evCqc6upAKNa-qD7XDlw-Ml'}) # replace the
id with id of file you want to access
downloaded.GetContentFile('test.tsv')
```
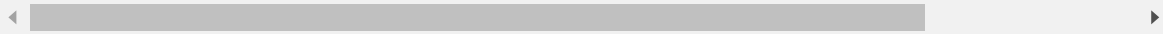
Step 1: Reading Raw Data

In [3]:

```
data = pd.read_csv('train.tsv', sep='\t')
# data= data[1:1000]
print("shape",np.shape(data))
data.head(5)
```

shape (1482535, 8)

Out[3]:

	train_id	name	item_condition_id	category_name	brand_name	price	shipj
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	NaN	10.0	
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	
3	3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	NaN	35.0	
4	4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	NaN	44.0	

In [4]:

```
train= data.copy()
train.head()
```

Out[4]:

	train_id	name	item_condition_id	category_name	brand_name	price	ship
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	NaN	10.0	
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	
3	3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	NaN	35.0	
4	4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	NaN	44.0	

In [5]:

```
train.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 1482535 entries, 0 to 1482534
Data columns (total 8 columns):
train_id            1482535 non-null int64
name                1482535 non-null object
item_condition_id   1482535 non-null int64
category_name       1476208 non-null object
brand_name          849853 non-null object
price               1482535 non-null float64
shipping            1482535 non-null int64
item_description    1482531 non-null object
dtypes: float64(1), int64(3), object(4)
memory usage: 90.5+ MB
```

In [6]:

```
print("The columns in data are as follows:")
train.dtypes
```

The columns in data are as follows:

Out[6]:

```
train_id              int64
name                 object
item_condition_id     int64
category_name        object
brand_name           object
price               float64
shipping              int64
item_description     object
dtype: object
```

In [7]:

```
#Describe the dataset
train.describe()
```

Out[7]:

	train_id	item_condition_id	price	shipping
count	1.482535e+06	1.482535e+06	1.482535e+06	1.482535e+06
mean	7.412670e+05	1.907380e+00	2.673752e+01	4.472744e-01
std	4.279711e+05	9.031586e-01	3.858607e+01	4.972124e-01
min	0.000000e+00	1.000000e+00	0.000000e+00	0.000000e+00
25%	3.706335e+05	1.000000e+00	1.000000e+01	0.000000e+00
50%	7.412670e+05	2.000000e+00	1.700000e+01	0.000000e+00
75%	1.111900e+06	3.000000e+00	2.900000e+01	1.000000e+00
max	1.482534e+06	5.000000e+00	2.009000e+03	1.000000e+00

Loading the test file

In [151]:

```
data = pd.read_csv('test_stg2.tsv', sep='\t')
# data= data[1:1000]
print("shape",np.shape(data))
data.head(5)
```

shape (3460725, 7)

Out[151]:

	test_id	name	item_condition_id	category_name	brand_name	shipping	item_
0	0	Breast cancer "I fight like a girl" ring	1	Women/Jewelry/Rings	NaN	1	
1	1	25 pcs NEW 7.5"x12" Kraft Bubble Mailers	1	Other/Office supplies/Shipping Supplies	NaN	1	7 Bu
2	2	Coach bag	1	Vintage & Collectibles/Bags and Purses/Handbag	Coach	1	Bran ba [rm
3	3	Floral Kimono	2	Women/Sweaters/Cardigan	NaN	0	-fl lig
4	4	Life after Death	3	Other/Books/Religion & Spirituality	NaN	1	Redi afte

In [152]:

```
test2= data.copy()
test2.head()
```

Out[152]:

	test_id	name	item_condition_id	category_name	brand_name	shipping	item_
0	0	Breast cancer "I fight like a girl" ring	1	Women/Jewelry/Rings	NaN	1	
1	1	25 pcs NEW 7.5"x12" Kraft Bubble Mailers	1	Other/Office supplies/Shipping Supplies	NaN	1	7 Bu
2	2	Coach bag	1	Vintage & Collectibles/Bags and Purses/Handbag	Coach	1	Bran ba [rm
3	3	Floral Kimono	2	Women/Sweaters/Cardigan	NaN	0	-fl lig
4	4	Life after Death	3	Other/Books/Religion & Spirituality	NaN	1	Redis after

In [153]:

```
test2.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3460725 entries, 0 to 3460724
Data columns (total 7 columns):
test_id            int64
name               object
item_condition_id  int64
category_name      object
brand_name         object
shipping           int64
item_description   object
dtypes: int64(3), object(4)
memory usage: 184.8+ MB
```

Checking for null values in data

In [8]:

```
train.isnull().any()
```

Out[8]:

```
train_id           False
name               False
item_condition_id  False
category_name       True
brand_name          True
price              False
shipping           False
item_description    True
dtype: bool
```

In [116]:

```
test2.isnull().any()
```

Out[116]:

```
test_id            False
name               False
item_condition_id  False
category_name       True
brand_name          True
shipping           False
item_description    True
dtype: bool
```

In [117]:

```
submission_final= pd.DataFrame(test2['test_id'])
submission_final.head(5)
```

Out[117]:

	test_id
0	0
1	1
2	2
3	3
4	4

Observation

Category_name, brand_name and item_description have null values. So we are processing this coulumns

In [9]:

```python
def fill_missing_data(data):
    data.category_name.fillna(value = "Others", inplace = True)
    data.brand_name.fillna(value = "Not known", inplace = True)
    data.item_description.fillna(value = "No description given", inplace = True)
    return data
```

In [10]:

```python
train = fill_missing_data(train)
#df=df.dropna()
print(np.shape(train))
train.head()
```

(1482535, 8)

Out[10]:

	train_id	name	item_condition_id	category_name	brand_name	price	ship
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	Not known	10.0	
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	
3	3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	Not known	35.0	
4	4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	Not known	44.0	

In [118]:

```
test2 = fill_missing_data(test2)
#df=df.dropna()
print(np.shape(test2))
test2.head()
```

(3460725, 7)

Out[118]:

	test_id	name	item_condition_id	category_name	brand_name	shipping	item_
0	0	Breast cancer "I fight like a girl" ring	1	Women/Jewelry/Rings	Not known	1	
1	1	25 pcs NEW 7.5"x12" Kraft Bubble Mailers	1	Other/Office supplies/Shipping Supplies	Not known	1	7 Bu
2	2	Coach bag	1	Vintage & Collectibles/Bags and Purses/Handbag	Coach	1	Bran ba [rm
3	3	Floral Kimono	2	Women/Sweaters/Cardigan	Not known	0	-fl lig
4	4	Life after Death	3	Other/Books/Religion & Spirituality	Not known	1	Redi after

In [15]:

```
train.isnull().any()
```

Out[15]:

```
train_id            False
name                False
item_condition_id   False
category_name       False
brand_name          False
price               False
shipping            False
item_description    False
dtype: bool
```

In [119]:

```
test2.isnull().any()
```

Out[119]:

```
test_id            False
name               False
item_condition_id  False
category_name      False
brand_name         False
shipping           False
item_description   False
dtype: bool
```

Univariate Data Analysis

1. Price

In [11]:

```
#description of price
train.price.describe()
```

Out[11]:

```
count    1.482535e+06
mean     2.673752e+01
std      3.858607e+01
min      0.000000e+00
25%      1.000000e+01
50%      1.700000e+01
75%      2.900000e+01
max      2.009000e+03
Name: price, dtype: float64
```

The maximum price of an item is 2009 whereas minimum price is 0 (approx.).

In [12]:

```python
#Box-plot
fig, ax = plt.subplots(figsize=(14,5))
plt.title('Price distribution', fontsize=15)
sns.boxplot(train.price,showfliers=False)
ax.set_xlabel('Price',fontsize=15)

plt.show()
```

Price distribution
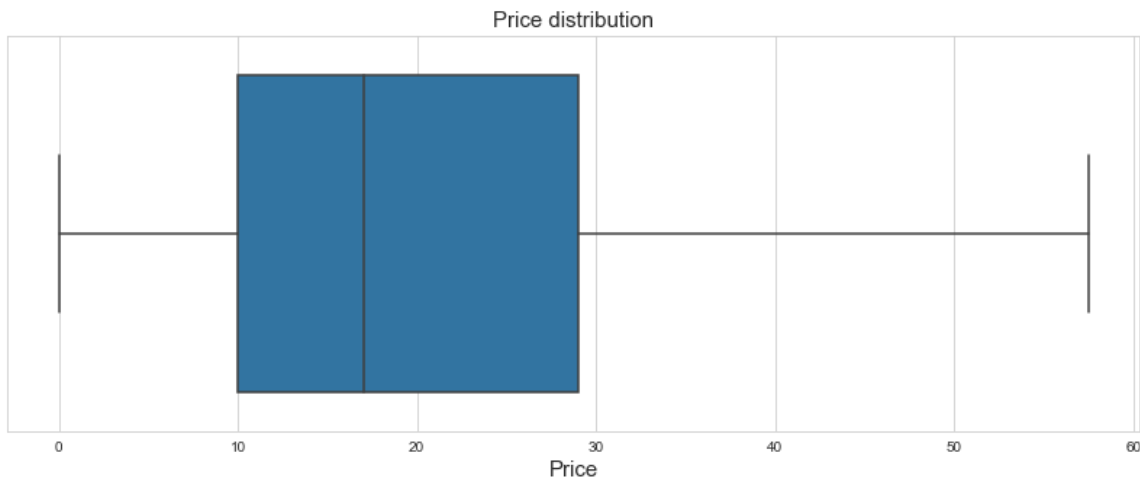
We can see most of the items have the price value between 25-28.And all the items have their price listings between 10-28

In [13]:

```python
#Histogram
fig, ax = plt.subplots(figsize=(14,8))
ax.hist(train.price,bins=30,range=[0,200],label="Price")
plt.title('Price distribution', fontsize=15)
ax.set_xlabel('Price',fontsize=15)
ax.set_ylabel('No of items',fontsize=15)

plt.show()
```
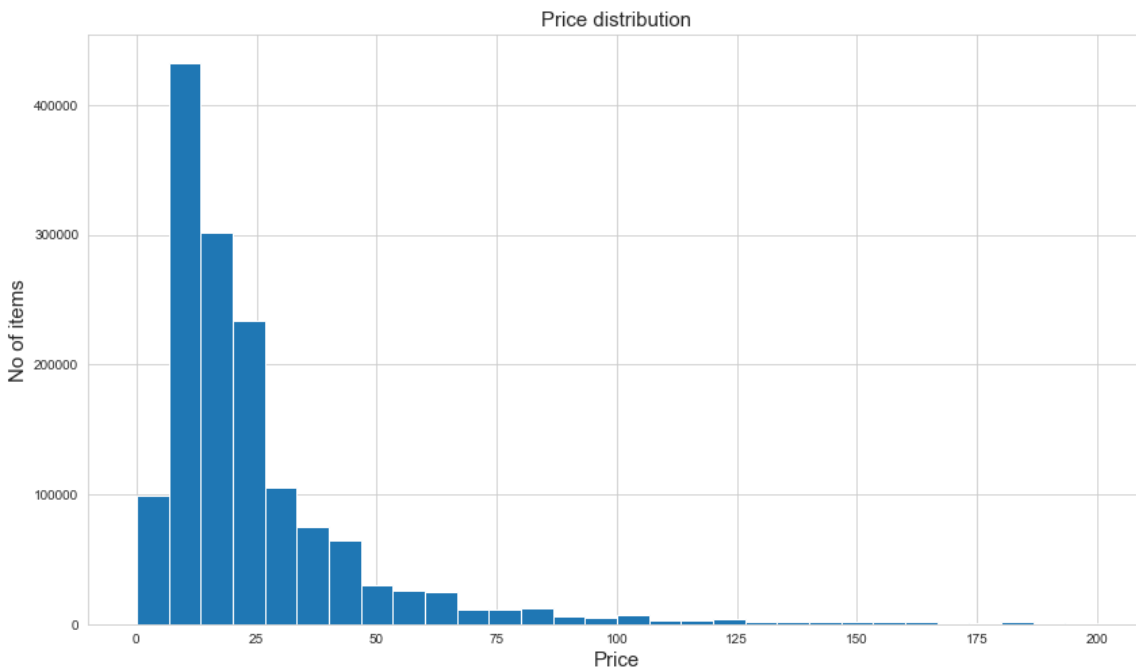

Histogram gives a better representation than box-plot. It reveals most of the items have their prices between 15-22.

In [14]:

```python
#We will add log(price) as a column in our train data
train["logPrice"] = np.log(train["price"]+1)
```

In [15]:

```
train.head()
```

Out[15]:

	train_id	name	item_condition_id	category_name	brand_name	price	ship
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	Not known	10.0	
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	
3	3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	Not known	35.0	
4	4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	Not known	44.0	

In [16]:

```
#Box-plot using log(price+1)
fig, ax = plt.subplots(figsize=(14,5))
plt.title('Price distribution', fontsize=15)
sns.boxplot(train.logPrice,showfliers=False)
ax.set_xlabel('log(Price+1)',fontsize=15)

plt.show()
```


Price distribution
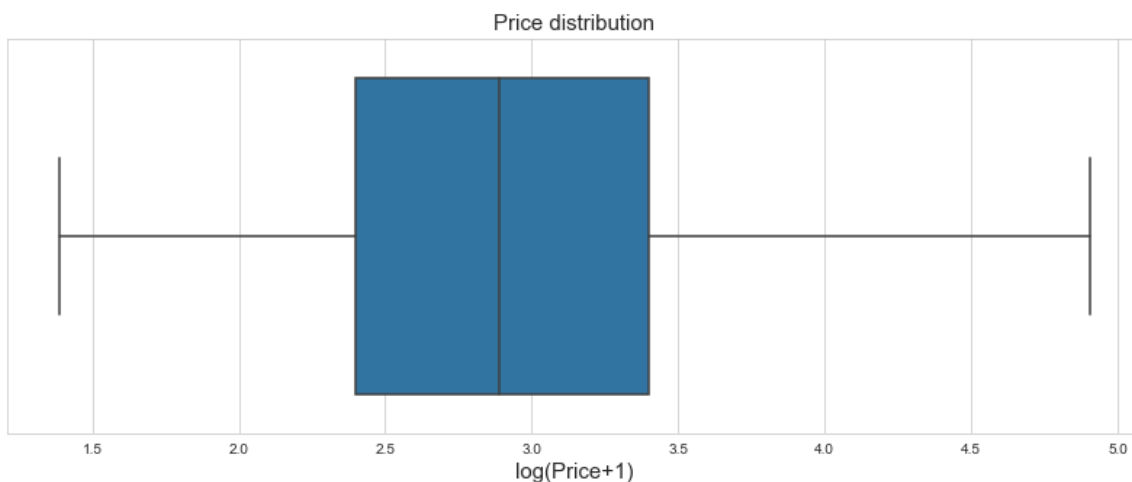
We have scaled down our 'price' feature logprice. We have added log(Price+1) to it as log(0) is undefined. hence if price for an item is 0, then the item will have no price as defined.

In [17]:

```
#Histogram using log(price+1)
fig, ax = plt.subplots(figsize=(14,8))
ax.hist(train.logPrice,bins=30,range=[0,8],label="Price")
plt.title('Price distribution', fontsize=15)
ax.set_xlabel('log(Price+1)',fontsize=15)
ax.set_ylabel('No of items',fontsize=15)

plt.show()
```
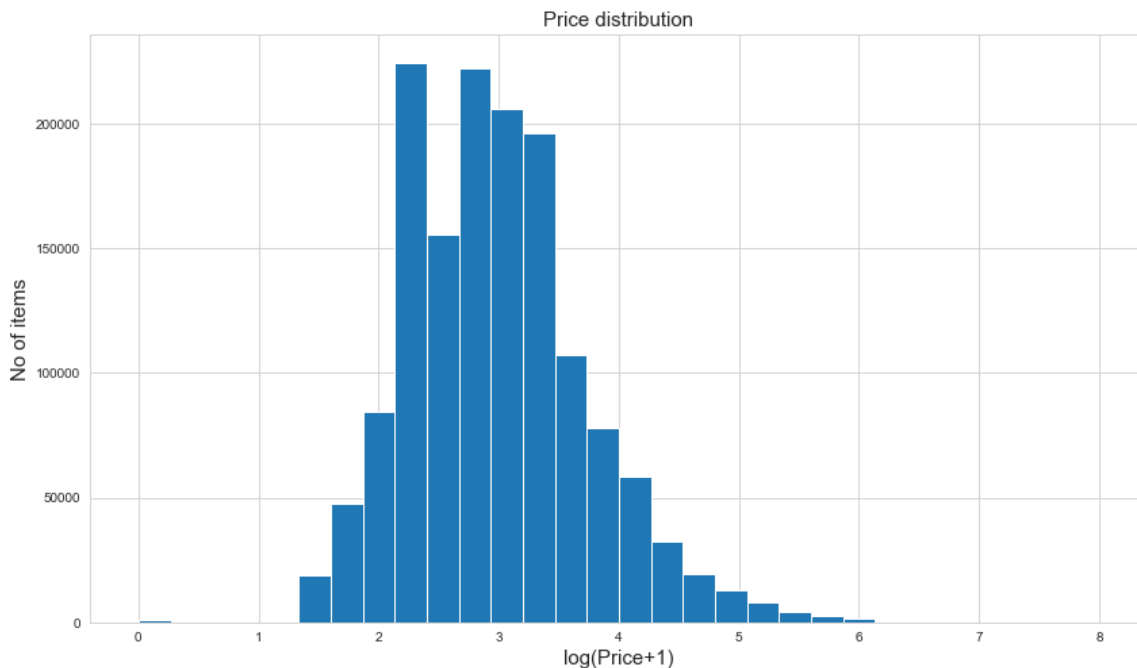

The 'log(price+1)' feature has the price range spread over 2.3-3.5 for most of the items

2. Shipping

In [18]:

```
print("0: shipping charges paid by seller")
print("1: shipping charges paid by buyers")
print("COUNT:\n",train['shipping'].value_counts())
print("Fraction:\n",train['shipping'].value_counts(normalize=True))
```

```
0: shipping charges paid by seller
1: shipping charges paid by buyers
COUNT:
 0    819435
 1    663100
Name: shipping, dtype: int64
Fraction:
 0    0.552726
 1    0.447274
Name: shipping, dtype: float64
```

In [19]:

```python
seller_charged = []
buyer_charged = []
for i in tqdm(range(0,len(train['shipping']))):
    if train['shipping'][i]==0:
        seller_charged.append(train['logPrice'][i])
    else:
        buyer_charged.append(train['logPrice'][i])
```

100%|██|
| 1482535/1482535 [02:21<00:00, 10453.70it/s]

In [20]:

```python
print(len(seller_charged))
print(len(buyer_charged))
```

819435
663100

In [21]:

```python
#Ref: https://stackoverflow.com/questions/6871201/plot-two-histograms-at-the-same-time-
with-matplotlib
#Ref: https://stackoverflow.com/questions/28398200/matplotlib-plotting-transparent-hist
ogram-with-non-transparent-edge
fig, ax = plt.subplots(figsize=(14,8))
ax.hist(buyer_charged,bins=30,range=[0,8],label="Buyer_charged",color='b',alpha=0.5)
ax.hist(seller_charged,bins=30,range=[0,8],label="seller_charged",color='r',alpha=0.5)
plt.title('Price distribution', fontsize=15)
ax.set_xlabel('log(Price+1)',fontsize=15)
ax.set_ylabel('No of items',fontsize=15)
plt.legend(loc='upper right')

plt.show()
```
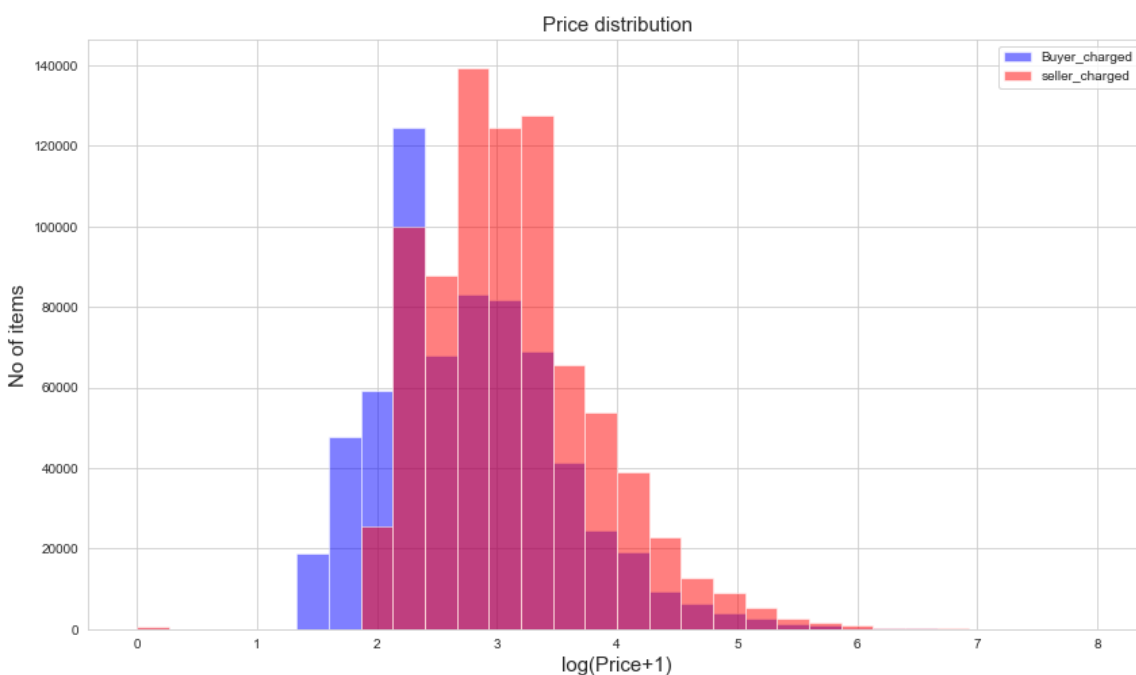
Here, we can see that for items which have lesser price, the shipping had to be paid by the buyer for profit reasons. Also, as the price increases, we can see that the shipping charges have been paid by the seller.. And there is a lot of overlap for items where both buyer and seller have been charged.

In [22]:

```
#Boxplot shipping vs logPrice
sns.boxplot(x=train.shipping,y=train.logPrice,orient='v')
```

Out[22]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x26f3cdd9f98>
```
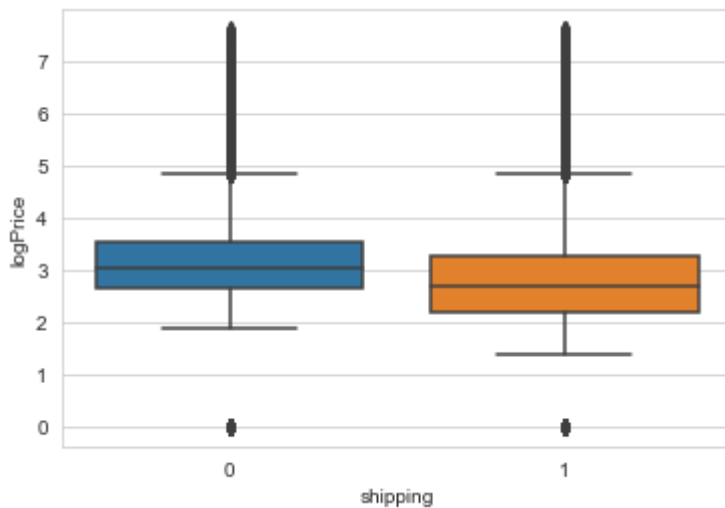

Similar to our conclusions from the histogram plot, boxplot also reveals that when price increases, the seller is charged and vice-versa.

3. Item category

In [23]:

```
#Ref: https://stackoverflow.com/questions/12282232/how-do-i-count-unique-values-inside-
a-list
print("No of unique values in item category is:",train['category_name'].nunique())
```

```
No of unique values in item category is: 1288
```

In [24]:

```
print("Top-10 unique category by frequency:\n\n",train['category_name'].value_counts()
[:10])
```

Top-10 unique category by frequency:

```
 Women/Athletic Apparel/Pants, Tights, Leggings               60177
Women/Tops & Blouses/T-Shirts                                46380
Beauty/Makeup/Face                                           34335
Beauty/Makeup/Lips                                           29910
Electronics/Video Games & Consoles/Games                     26557
Beauty/Makeup/Eyes                                           25215
Electronics/Cell Phones & Accessories/Cases, Covers & Skins  24676
Women/Underwear/Bras                                         21274
Women/Tops & Blouses/Tank, Cami                              20284
Women/Tops & Blouses/Blouse                                  20284
Name: category_name, dtype: int64
```

In [25]:

```
# 1. Extract 3 category related features
def cat_split(row):
    try:
        text = row
        text1, text2, text3 = text.split('/')
        return text1, text2, text3
    except:
        return ("Label not given", "Label not given", "Label not given")
```

In [26]:

```
train['general_cat'], train['subcat_1'], train['subcat_2'] = \
zip(*train['category_name'].apply(lambda x: cat_split(x)))
train.head()
```

Out[26]:

	train_id	name	item_condition_id	category_name	brand_name	price	ship
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	Not known	10.0	
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	
3	3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	Not known	35.0	
4	4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	Not known	44.0	

In [120]:

```python
test2['general_cat'], test2['subcat_1'], test2['subcat_2'] = \
zip(*test2['category_name'].apply(lambda x: cat_split(x)))
test2.head()
```

Out[120]:

|	test_id	name	item_condition_id	category_name	brand_name	shipping	item_
0	0	Breast cancer "I fight like a girl" ring	1	Women/Jewelry/Rings	Not known	1	
1	1	25 pcs NEW 7.5"x12" Kraft Bubble Mailers	1	Other/Office supplies/Shipping Supplies	Not known	1	7 Bu
2	2	Coach bag	1	Vintage & Collectibles/Bags and Purses/Handbag	Coach	1	Bran ba [rm
3	3	Floral Kimono	2	Women/Sweaters/Cardigan	Not known	0	-fl lig
4	4	Life after Death	3	Other/Books/Religion & Spirituality	Not known	1	Redi after

In [27]:

```python
print("No of unique values in main category: ",train['general_cat'].nunique())
print("No of unique values in Sub_category1: ",train['subcat_1'].nunique())
print("No of unique values in Sub_category2: ",train['subcat_2'].nunique())
```

```
No of unique values in main category:   11
No of unique values in Sub_category1:   114
No of unique values in Sub_category2:   865
```

In [28]:

```python
#Ref: https://seaborn.pydata.org/generated/seaborn.countplot.html
fig, ax = plt.subplots(figsize=(20,10))
sns.countplot(x='general_cat', data=train, ax=ax)
plt.title('Item count by main_category',fontsize=25)
plt.ylabel('No of items',fontsize=25)
plt.xlabel('')
plt.xticks(rotation=70,fontsize=20)
plt.yticks(fontsize=20)

plt.show()
```
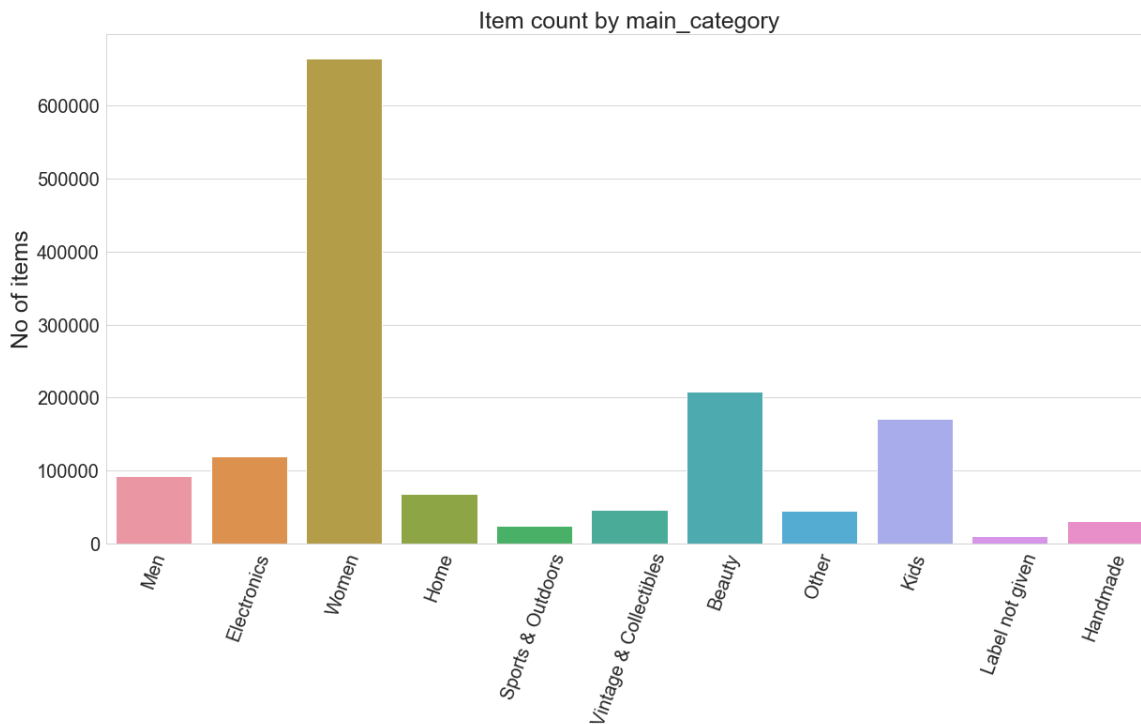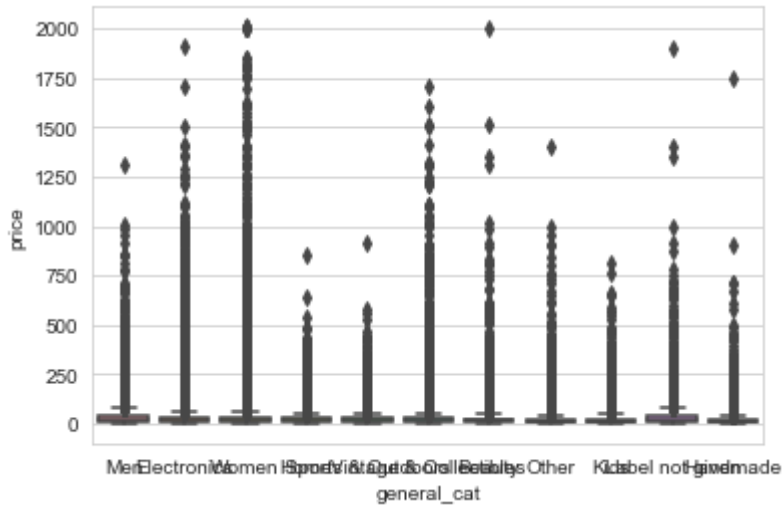

From this plot, we can conclude that items of women has the maximum number in main category.

In [29]:

```
#Ref: http://www.datasciencemadesimple.com/box-plot-in-python/
sns.boxplot(x=train.general_cat,y=train.price,orient='v')
```
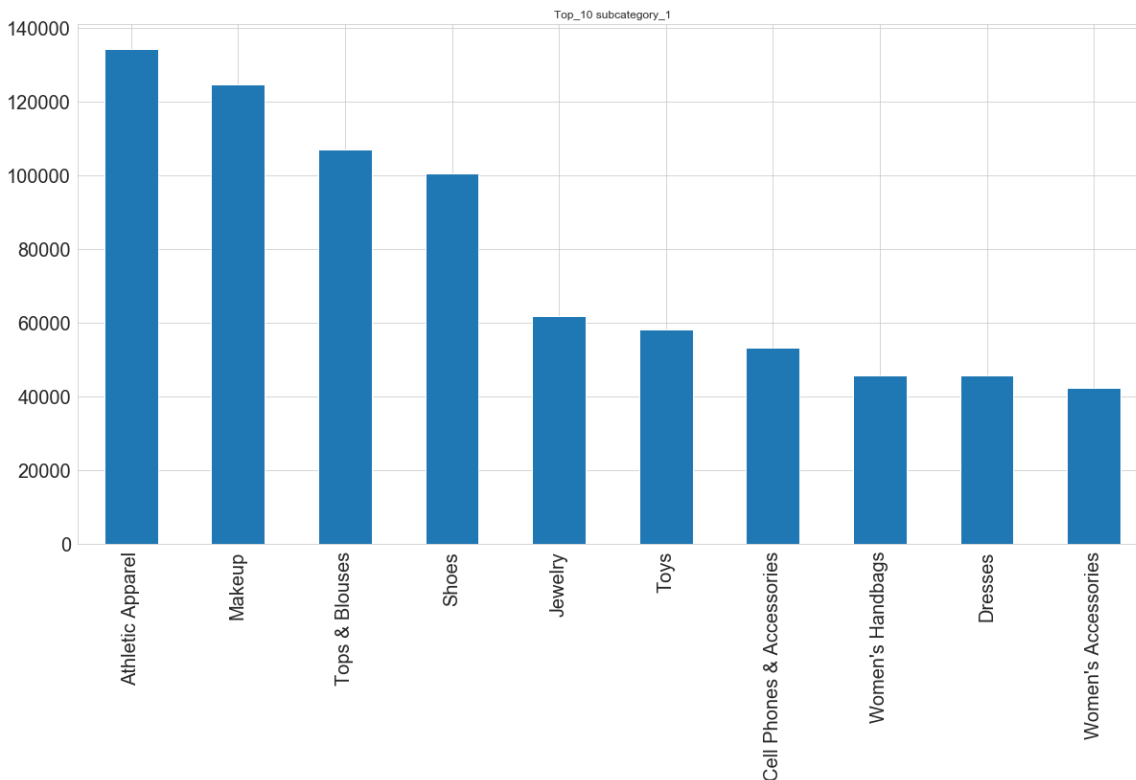
Out[29]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x26f0c1e0be0>
```

In [30]:

```
#Ref: https://stackoverflow.com/questions/48799185/plot-histogram-matplotlib-with-label
s-on-x-axis-instead-of-count
print("Top-10 subcategory_1:")
train.subcat_1.value_counts()[:10].plot(kind = 'bar',figsize = (20,10), title="Top_10 s
ubcategory_1",fontsize=20)
```

Top-10 subcategory_1:

Out[30]:

<matplotlib.axes._subplots.AxesSubplot at 0x26f0c2a4da0>

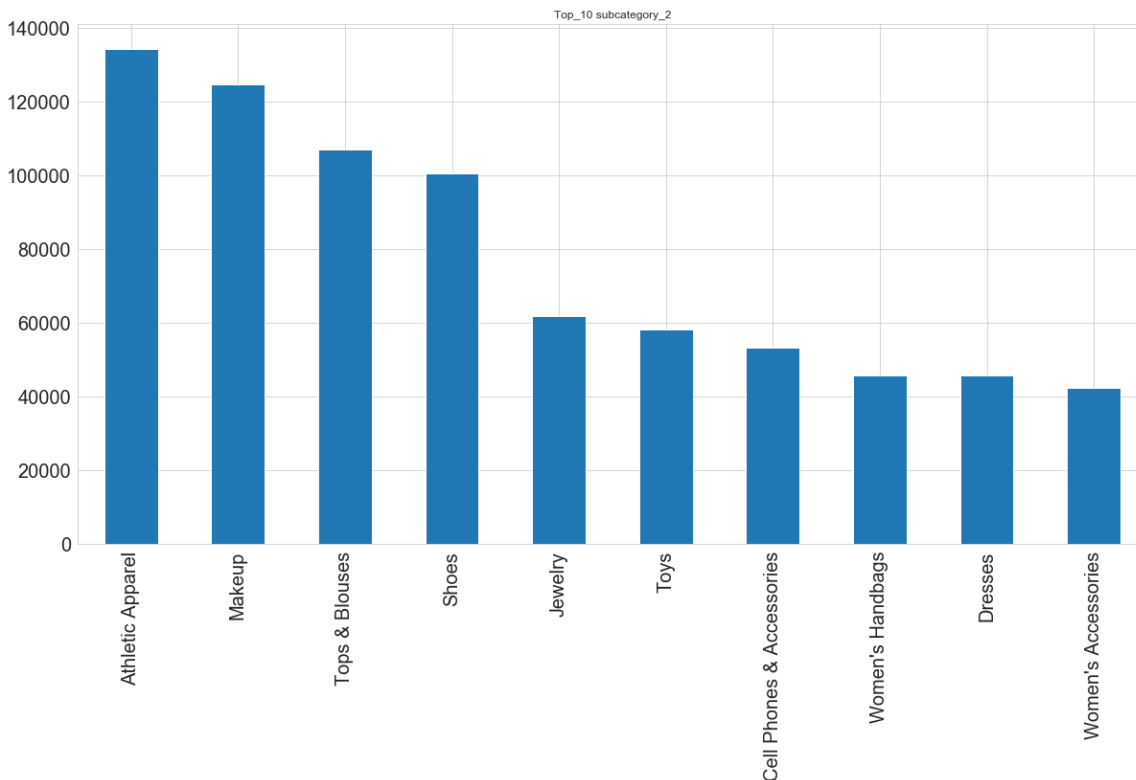Here, it lists the top 10 items with greatest frequencies in sub-category 1.

In [31]:

```
#Ref: https://stackoverflow.com/questions/48799185/plot-histogram-matplotlib-with-label
s-on-x-axis-instead-of-count
print("Top-10 subcategory_2:")
train.subcat_1.value_counts()[:10].plot(kind = 'bar',figsize = (20,10), title="Top_10 s
ubcategory_2",fontsize=20)
```

Top-10 subcategory_2:

Out[31]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x26f0c302470>
```


4. Brand name

In [32]:

```
print("No of unique brands: ",train['brand_name'].nunique())
```
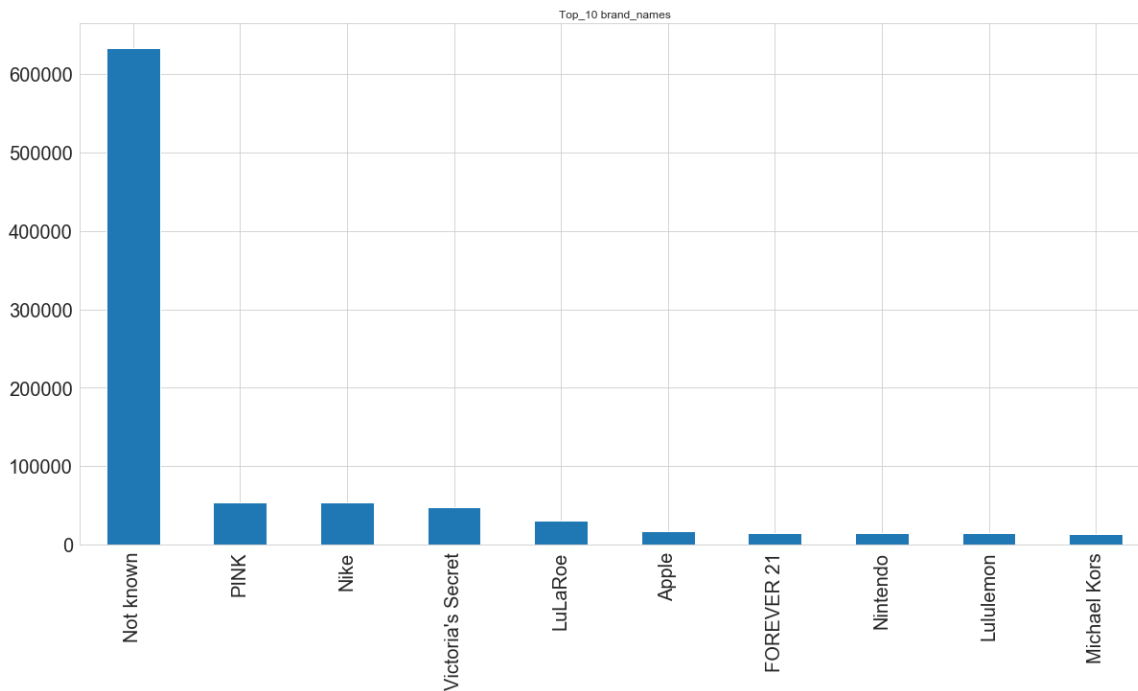
No of unique brands: 4810

In [33]:

```python
#Ref: https://stackoverflow.com/questions/48799185/plot-histogram-matplotlib-with-label
s-on-x-axis-instead-of-count
print("Top-10 brands by frequency of sale:")
train.brand_name.value_counts()[:10].plot(kind = 'bar',figsize = (20,10), title="Top_10
brand_names",fontsize=20)
```

Top-10 brands by frequency of sale:

Out[33]:

`<matplotlib.axes._subplots.AxesSubplot at 0x26f0c3815f8>`

For most of the items, the brand name has not been listed can be deduced from the plot. Second to it, most number of items have 'Pink' and "Nike" as brand names.

5. Item description

In [34]:

```python
def length(description):
    count = 0
    for i in description.split():
        count+=1
    return count
```

In [35]:

```python
lol = []
for i in train['item_description']:
    temp = []
    temp.append(i)
    temp.append(length(str(i)))
    lol.append(temp)

print(lol[0])
print(len(lol))
```

```
['No description yet', 3]
1482535
```

In [36]:

```python
mydf = pd.DataFrame(lol,columns=['desc','desc_length'])
print(mydf.head(2))
```

```
                                        desc  desc_length
0                         No description yet            3
1  This keyboard is in great condition and works ...           36
```

In [37]:

```python
train['description_len'] = mydf['desc_length']
```

In [38]:

```python
train.head(3)
```

Out[38]:

	train_id	name	item_condition_id	category_name	brand_name	price	shipping
0	0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	Not known	10.0	1
1	1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	52.0	0
2	2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	10.0	1

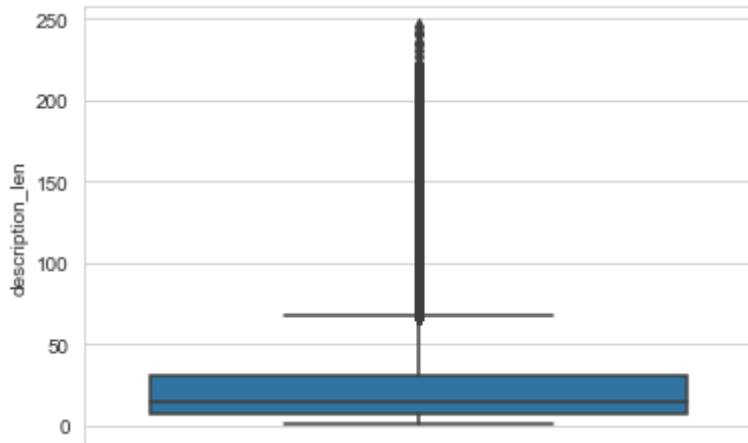In [39]:

```
#Box-plot of description length
sns.boxplot(x=train.description_len,orient='v')
```

Out[39]:

`<matplotlib.axes._subplots.AxesSubplot at 0x26f6b86dc18>`
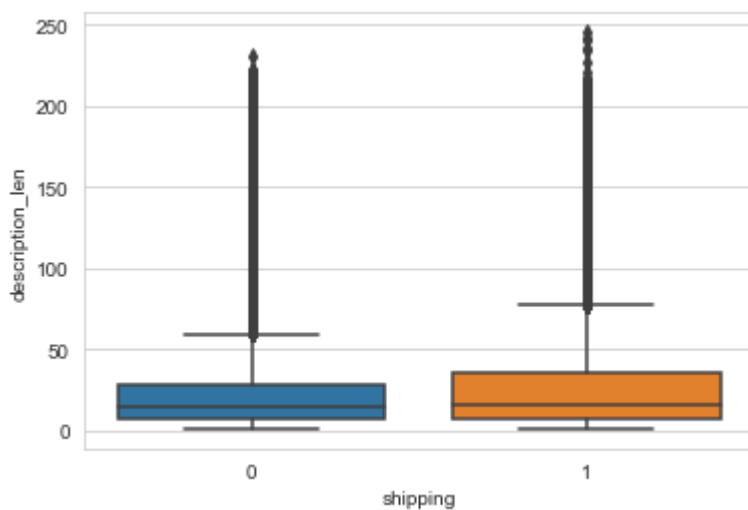

The box-plot of decsription length shows that most of the tiems have description length ranging between 15-40 words.

In [40]:

```
#Box-plot of description length
sns.boxplot(y=train.description_len,x=train.shipping,orient='v')
```
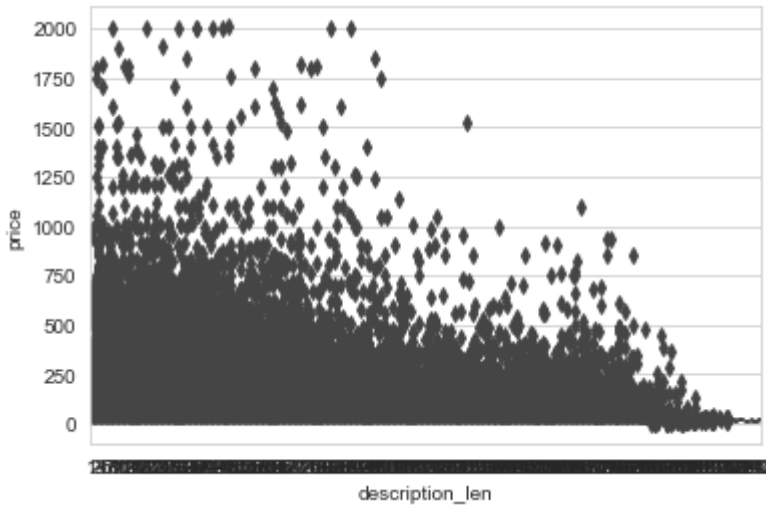
Out[40]:

`<matplotlib.axes._subplots.AxesSubplot at 0x26f6b9215f8>`

The description length vs shipping has been plotted. But it does't give much details about the underlying data.

In [41]:

```
#Box-plot of description length with price
sns.boxplot(x=train.description_len,y=train.price,orient='v')
```

Out[41]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x26f0c3e6ef0>
```


Here, description length vs price has been given. As length increases, price charged becomes less. Most of the items with lesser description length have more price value.

In [42]:

```
#Ref: https://stackoverflow.com/questions/48799185/plot-histogram-matplotlib-with-label
s-on-x-axis-instead-of-count
print("Top-10 item_descriptions by frequency:")
train.description_len.value_counts()[:10].plot(kind = 'bar',figsize = (20,10),
                                                title="Top_10 item descriptions by frequ
ency",fontsize=20)
```

Top-10 item_descriptions by frequency:

Out[42]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x26f1aead7f0>
```

In [43]:
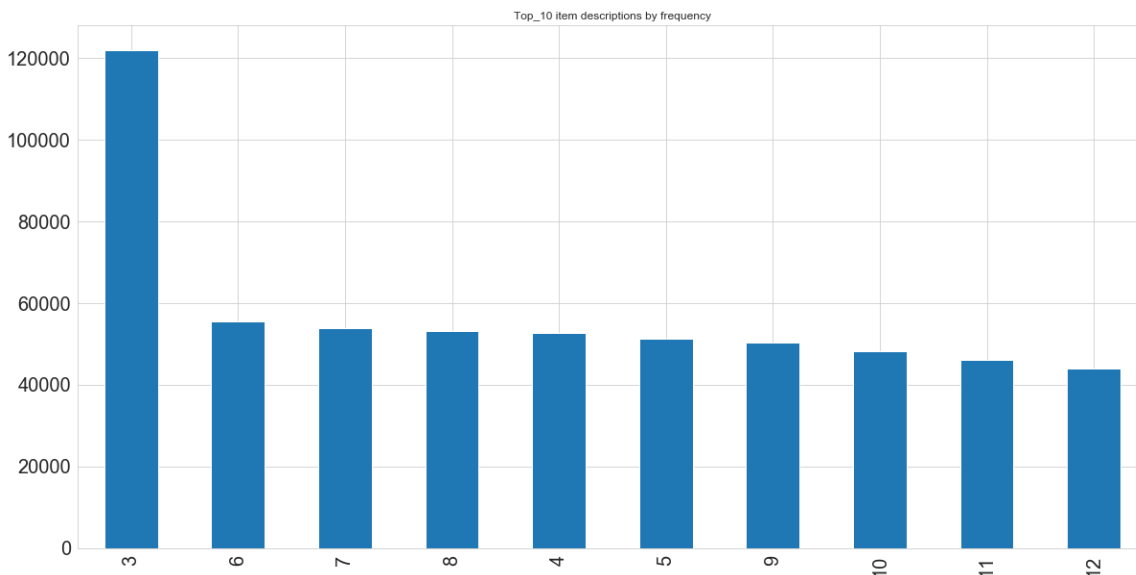
```python
#Ref: https://www.kaggle.com/konohayui/mercari-price-suggestion-eda
wc = WordCloud(max_words=300,width = 1200, height = 900).generate(" ".join(train.item_d
escription.astype(str)))
plt.figure(figsize = (18, 13))
plt.imshow(wc)
plt.axis("off")
plt.show()
```


This word cloud plot gives a good idea about the words that appear frequently in the item description field.

Basic Feature Engineering and Preprocessing

In [47]:

```python
# https://stackoverflow.com/a/47091490/4084039
import re

def decontracted(phrase):
    # specific
    phrase = re.sub(r"won't", "will not", phrase)
    phrase = re.sub(r"can\'t", "can not", phrase)

    # general
    phrase = re.sub(r"n\'t", " not", phrase)
    phrase = re.sub(r"\'re", " are", phrase)
    phrase = re.sub(r"\'s", " is", phrase)
    phrase = re.sub(r"\'d", " would", phrase)
    phrase = re.sub(r"\'ll", " will", phrase)
    phrase = re.sub(r"\'t", " not", phrase)
    phrase = re.sub(r"\'ve", " have", phrase)
    phrase = re.sub(r"\'m", " am", phrase)
    return phrase
```

In [48]:

```python
# https://gist.github.com/sebleier/554280
# we are removing the words from the stop words list: 'no', 'nor', 'not'
stopwords= ['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you'r
e", "you've",\
            "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him',
'his', 'himself', \
            'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 't
hey', 'them', 'their',\
            'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "th
at'll", 'these', 'those', \
            'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'ha
d', 'having', 'do', 'does', \
            'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as'
, 'until', 'while', 'of', \
            'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through'
, 'during', 'before', 'after',\
            'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'ov
er', 'under', 'again', 'further',\
            'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'an
y', 'both', 'each', 'few', 'more',\
            'most', 'other', 'some', 'such', 'only', 'own', 'same', 'so', 'than', 'too'
, 'very', \
            's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'no
w', 'd', 'll', 'm', 'o', 're', \
            've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't",
'doesn', "doesn't", 'hadn',\
            "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'migh
tn', "mightn't", 'mustn',\
            "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'w
asn', "wasn't", 'weren', "weren't", \
            'won', "won't", 'wouldn', "wouldn't"]
```

Calculating sentiment score on item description as a feature

In [49]:

```python
#for X_train
# Combining all the above stundents
from tqdm import tqdm
preprocessed_total_train = []
# tqdm is for printing the status bar
for sentance in tqdm(train['item_description'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_total_train.append(sent.lower().strip())

# after preprocesing
preprocessed_total_train[20000]
```

```
100%|████████████████████████████████████████████████████
█| 1482535/1482535 [03:39<00:00, 6750.59it/s]
```

Out[49]:

'minor flaws check pic condition bundle save'

In [52]:

```python
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

import nltk
nltk.download('vader_lexicon')

sid = SentimentIntensityAnalyzer()

train_sentiment = [];
for sentence in tqdm(preprocessed_total_train):
    for_sentiment = sentence
    ss = sid.polarity_scores(for_sentiment)
    train_sentiment.append(ss)
```

```
[nltk_data] Downloading package vader_lexicon to C:\Users\Kamal Sarkar
[nltk_data]     2001\AppData\Roaming\nltk_data...
[nltk_data]   Package vader_lexicon is already up-to-date!
100%|████████████████████████████████████████████████████
█| 1482535/1482535 [11:24<00:00, 2166.64it/s]
```

In [53]:

```python
negative=[]
neutral=[]
positive=[]
compounding=[]
for i in train_sentiment:

    for polarity,score in i.items():
        if(polarity=='neg'):
            negative.append(score)
        if(polarity=='neu'):
            neutral.append(score)
        if(polarity=='pos'):
            positive.append(score)
        if(polarity=='compound'):
            compounding.append(score)
```
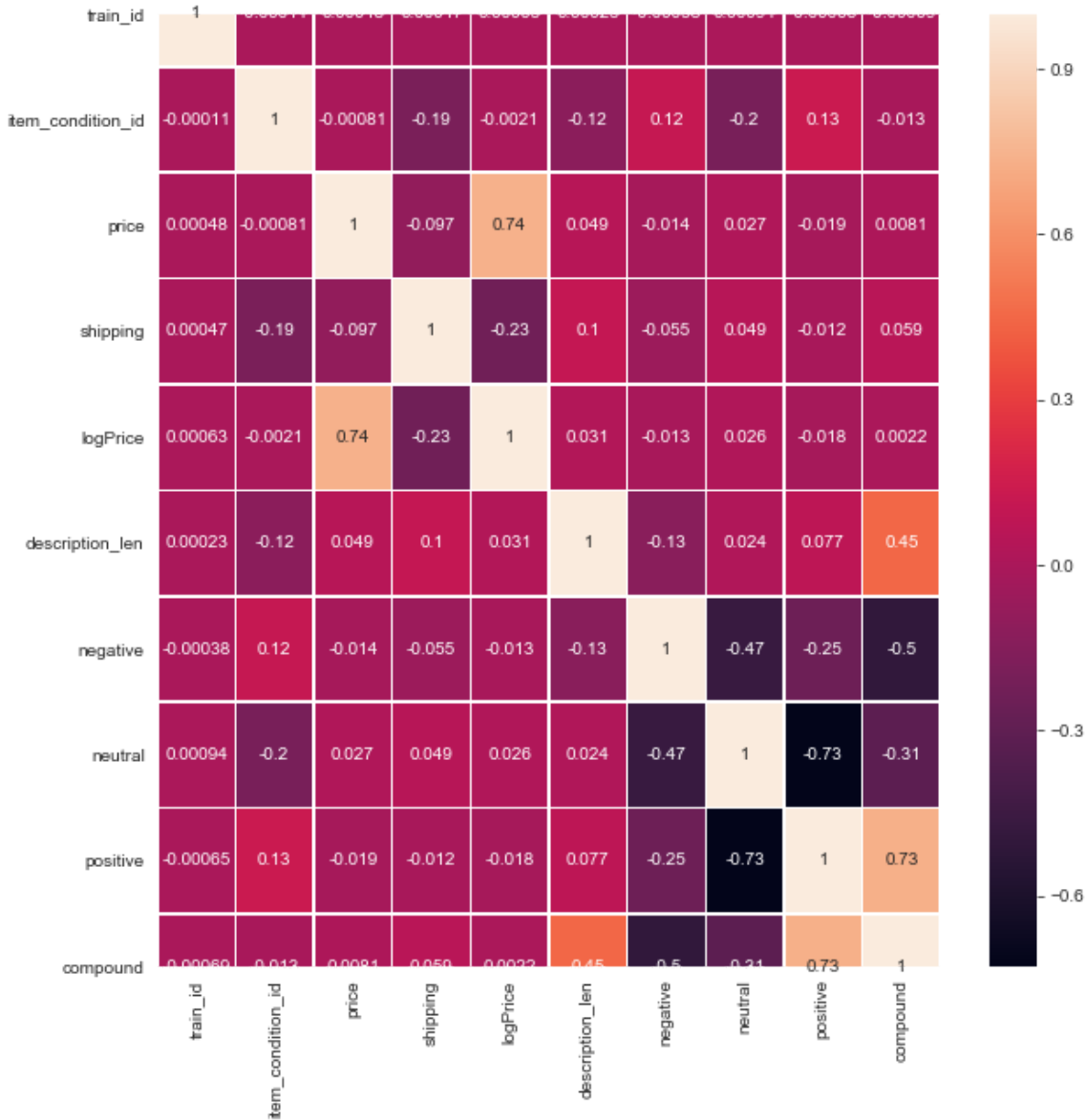
In [54]:

```python
train['negative']=negative
train['neutral']=neutral
train['positive']=positive
train['compound']=compounding
```

Calculating Correlation between different features

In [55]:

```
columns = list(train.columns)
plt.figure(figsize = (10, 10))
sns.heatmap(train[columns].corr(), annot = True, linewidth = 0.5)
plt.show()
```

1. We can see that description length has a fair correleation with the price of an item. Hence, we will include this as an additional feature in the features list.

2. Also, features of sentiment score share some correlation with the target variable 'Price'. Hence we are including sentiment score on item description as an additional feature

In [56]:

```
y_train = np.log(train["price"]+1)
train_ids = train['train_id'].values.astype(np.int32)
train.drop(['price', 'train_id','logPrice','description_len','negative', 'neutral','pos
itive','compound'], axis=1, inplace=True)
```

In [58]:

```
train.head(5)
```

Out[58]:

	name	item_condition_id	category_name	brand_name	shipping	item_descr
0	MLB Cincinnati Reds T Shirt Size XL	3	Men/Tops/T-shirts	Not known	1	No descript
1	Razer BlackWidow Chroma Keyboard	3	Electronics/Computers & Tablets/Components & P...	Razer	0	This keyb in great co and w
2	AVA-VIV Blouse	1	Women/Tops & Blouses/Blouse	Target	1	Adorable t a hint of la a ke
3	Leather Horse Statues	1	Home/Home Décor/Home Décor Accents	Not known	1	New wit Leather h Retail for
4	24K GOLD plated rose	1	Women/Jewelry/Necklaces	Not known	0	Comple certifi authe

In [ ]:

```
test_ids = test2['test_id'].values.astype(np.int32)
test2.drop(['test_id'], axis=1, inplace=True)
```

Splitting the dataset into train and test

In [59]:

```
X=train
y=y_train
```

In [60]:

```
df_train, df_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state
=42)
```

Preprocessing on train and test datasets

In [42]:

```
#for X_train
# Combining all the above stundents
from tqdm import tqdm
preprocessed_train_des = []
# tqdm is for printing the status bar
for sentance in tqdm(df_train['item_description'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_train_des.append(sent.lower().strip())

# after preprocesing
preprocessed_train_des[20000]
```

```
100%|████████████████████████████████████████████████████████████████
| 1186028/1186028 [01:36<00:00, 12343.74it/s]
```

Out[42]:

```
'brand new received gift opened box thinking would keep decided stick two
faced setting powder'
```

In [43]:

```python
#for X_train
# Combining all the above stundents
from tqdm import tqdm
preprocessed_test_des = []
# tqdm is for printing the status bar
for sentance in tqdm(df_test['item_description'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_test_des.append(sent.lower().strip())

# after preprocesing
preprocessed_test_des[20000]
```

```
100%|████████████████████████████████████████████
██| 296507/296507 [00:23<00:00, 12473.65it/s]
```

Out[43]:

```
'three near mint erikas venusaur first edition holo'
```

In [44]:

```python
#for X_train
# Combining all the above stundents
from tqdm import tqdm
preprocessed_test = []
# tqdm is for printing the status bar
for sentance in tqdm(test['item_description'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_test.append(sent.lower().strip())

# after preprocesing
preprocessed_test[20000]
```

```
100%|████████████████████████████████████████████
██| 693359/693359 [00:54<00:00, 12768.51it/s]
```

Out[44]:

```
'8 herbal essences gel'
```

In [122]:

```python
#for X_train
# Combining all the above stundents
from tqdm import tqdm
preprocessed_test2 = []
# tqdm is for printing the status bar
for sentance in tqdm(test2['item_description'].values):
    sent = decontracted(sentance)
    sent = sent.replace('\\r', ' ')
    sent = sent.replace('\\"', ' ')
    sent = sent.replace('\\n', ' ')
    sent = re.sub('[^A-Za-z0-9]+', ' ', sent)
    # https://gist.github.com/sebleier/554280
    sent = ' '.join(e for e in sent.split() if e.lower() not in stopwords)
    preprocessed_test2.append(sent.lower().strip())

# after preprocesing
preprocessed_test2[20000]
```

100%|██|
| 3460725/3460725 [04:34<00:00, 12623.97it/s]

Out[122]:

'8 herbal essences gel'

Performing one-hot encoding on categorical features

Name

In [45]:

```python
vectorizer = CountVectorizer(min_df=10)
vectorizer.fit(df_train['name'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
train_name = vectorizer.transform(df_train['name'].values)
test_name = vectorizer.transform(df_test['name'].values)


print("After vectorizations")
print(train_name.shape)
print(test_name.shape)

print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(1186028, 15929)
(296507, 15929)
['00', '000', '001', '002', '003', '007', '007taz', '00g', '01', '02', '0
3', '04', '043', '045', '05', '06', '07', '08', '09', '0g', '0oz', '0r',
'0s', '0x', '10', '100', '1000', '1001', '100ct', '100g', '100ml', '100pc
s', '101', '102', '103', '104', '105', '106', '107', '108', '1080', '1080
p', '109', '10c', '10ft', '10g', '10k', '10kt', '10lbs', '10m', '10ml', '1
0mm', '10oz', '10pairs', '10pc', '10pcs', '10pk', '10r', '10s', '10th', '1
0w', '10x', '10x13', '11', '110', '111', '112', '113', '114', '115', '11
c', '11m', '11pc', '11r', '11s', '11w', '12', '120', '1200', '120gb', '12
2', '123', '1234', '124', '125', '127', '128', '128gb', '129', '12c', '12h
r', '12k', '12m', '12mm', '12mo', '12month', '12months', '12oz', '12p', '1
2pc', '12pcs', '12r', '12s', '12th', '12v', '12w', '12x', '12x12', '12x1
5', '13', '130', '132', '135', '136', '13c', '13in', '13pc', '13s', '13t
h', '14', '140', '144', '1460', '149', '14g', '14k', '14kt', '14mm', '14o
z', '14p', '14s', '14th', '14x17', '15', '150', '1500', '15ml', '15oz', '1
5pc', '15pcs', '15x', '16', '160', '1600', '160g', '160gb', '162', '168',
'16g', '16gb', '16oz', '16pc', '16w', '17', '170', '17oz', '18', '180', '1
800', '182', '1837', '18650', '1886', '18g', '18in', '18k', '18kt', '18m',
'18mo', '18month', '18months', '18mos', '18mth', '18oz', '18th', '18v', '1
8w', '18x18', '19', '1909', '1922', '1937', '1940', '1940s', '1941', '194
2', '1950', '1950s', '1955', '1957', '1958', '1960', '1960s', '1962', '196
4', '1965', '1966', '1967', '1968', '1969', '1970', '1970s', '1971', '197
2', '1973', '1974', '1975', '1976', '1977', '1978', '1979', '1980', '1980
s', '1981', '1982', '1983', '1984', '1985', '1986', '1987', '1988', '198
9', '199', '1990', '1990s', '1991', '1992', '1993', '1994', '1995', '199
6', '1997', '1998', '1999', '19th', '1b', '1c', '1cm', '1ct', '1d', '1da
y', '1daysale', '1fl', '1g', '1gb', '1hr', '1lb', '1m', '1ml', '1oz', '1p
c', '1pcs', '1pr', '1r', '1s', '1st', '1tb', '1x', '1xl', '1y', '20', '20
0', '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007', '200
8', '2009', '200mm', '201', '2010', '2011', '2012', '2013', '2014', '201
5', '2016', '2017', '2018', '2019', '202', '205', '207', '208', '209', '20
99', '20g', '20gb', '20in', '20ml', '20oz', '20pc', '20pcs', '20pk', '20t
h', '20v', '20w', '20x', '21', '210', '211', '212', '213', '216', '218',
'21st', '22', '220', '2200', '221', '222', '223', '224', '22g', '22oz', '2
2w', '23', '230', '24', '240', '24h', '24hr', '24in', '24k', '24m', '24m
o', '24month', '24months', '24mos', '24oz', '24pcs', '24w', '25', '250',
'2500', '250gb', '252', '256', '256gb', '25a', '25b', '25ml', '25mm', '25o
z', '25th', '25x', '26', '260', '2600', '26r', '27', '27r', '28', '28r',
'28w', '28x30', '29', '299', '29r', '29x30', '29x31', '29x32', '2b', '2bea
nie', '2c', '2ct', '2d', '2day', '2ds', '2fl', '2for', '2g', '2gb', '2hr',
'2in1', '2k', '2k13', '2k14', '2k15', '2k16', '2k17', '2l', '2lb', '2m',
'2ml', '2mm', '2n1', '2nd', '2oz', '2p', '2pac', '2pack', '2packs', '2pai
r', '2pairs', '2pc', '2pcs', '2piece', '2pk', '2pr', '2s', '2sets', '2t',
'2tb', '2tone', '2x', '2x3', '2xl', '2xlarge', '2xself', '2y', '30', '30
0', '3000', '3000mah', '3001', '300mm', '3025', '30a', '30ct', '30g', '30g
b', '30ml', '30oz', '30pin', '30th', '30x', '30x30', '30x32', '31', '310',
'31x32', '32', '320', '32a', '32aa', '32b', '32c', '32d', '32dd', '32ddd',
'32ft', '32g', '32gb', '32l', '32mm', '32oz', '32pcs', '32x30', '32x32',
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'bengals', 'benjamin', 'benjamins', 'bennett', 'benny', 'bennye', 'bentley', 'bento', 'benz', 'berenguer', 'beret', 'bergamot', 'berkeley', 'berkley', 'berlin', 'bermuda', 'bermudas', 'bernard', 'bernie', 'bernini', 'berries', 'berry', 'bert', 'best', 'bestie', 'beta', 'beth', 'bethany', 'betsey', 'betseyville', 'betsy', 'betta', 'better', 'bettie', 'betts', 'betty', 'betula', 'between', 'bev', 'beverage', 'beverley', 'beverly', 'beverlyhills', 'bewitched', 'bexley', 'beyblade', 'beyblades', 'beyonce', 'beyoncé', 'beyond', 'bezel', 'bf', 'bff', 'bfg', 'bfyhc', 'bg', 'bgosh', 'bh', 'bha', 'bhakti', 'bhcosmetics', 'bhm', 'bi', 'bianca', 'bianka', 'bib', 'bible', 'bibs', 'bic', 'bicycle', 'bicycles', 'bieber', 'bienfait', 'bifold', 'big', 'bigelow', 'bigfoot', 'bigger', 'biggest', 'biggie', 'bike', 'biker', 'bikes', 'bikin', 'bikini', 'bikinis', 'bilayer', 'bill', 'billabong', 'billfold', 'billie', 'billionaire', 'bills', 'billy', 'bin', 'binder', 'binders', 'bing', 'bingo', 'bini', 'binoculars', 'bins', 'bio', 'bioaqua', 'biofit', 'bioflex', 'biohazard', 'biolage', 'biology', 'bionic', 'bionicle', 'biore', 'bioré', 'bioshock', 'biosilk', 'biotin', 'birch', 'birchbox', 'bird', 'birdcage', 'birdhouse', 'birdie', 'birds', 'birkenstock', 'birkenstocks', 'birki', 'birkin', 'birkis', 'birko', 'birks', 'birth', 'birthday', 'birthstone', 'biscuit', 'bison', 'bisou', 'bisque', 'bissell', 'bissu', 'bistro', 'bit', 'bitch', 'bitches', 'bite', 'bits', 'bitsy', 'bitton', 'bitty', 'bittys', 'bj', 'bjorn', 'bk', 'bke', 'bkr', 'bl', 'blac', 'black', 'blackberry', 'blackcraft', 'blackest', 'blackhawk', 'blackhawks', 'blackhead', 'blackheads', 'blackheart', 'blackketter', 'blackmilk', 'blackout', 'blackwidow', 'bladder', 'blade', 'blades', 'blahnik', 'blair', 'blake', 'blanc', 'blanca', 'blank', 'blanket', 'blankets', 'blast', 'blaster', 'blasting', 'blastoise', 'blaze', 'blazer', 'blazers', 'blck', 'bleach', 'bleached', 'bleaching', 'blemish', 'blend', 'blended', 'blender', 'blendercleanser', 'blenders', 'blending', 'blends', 'bless', 'blessed', 'blessing', 'blessings', 'bleu', 'blinc', 'blind', 'bling', 'blinged', 'blingy', 'blink', 'bliss', 'blister', 'blistex', 'blitz', 'blizzard', 'blk', 'bloch', 'block', 'blocked', 'blocker', 'blocking', 'blocks', 'bloks', 'blond', 'blonde', 'blondes', 'blondie', 'blood', 'bloodborne', 'bloody', 'bloom', 'bloomer', 'bloomers', 'blooming', 'bloomingdales', 'blooms', 'blossom', 'blossoms', 'blot', 'blotterazzi', 'blotting', 'blouse', 'blouses', 'blow', 'blowfish', 'blown', 'blowout', 'blu', 'blue', 'blueberry', 'bluebird', 'blueray', 'blues', 'bluetooth', 'blunt', 'blur', 'bluray', 'blurring', 'blurryface', 'blush', 'blushed', 'blusher', 'blushes', 'blushing', 'blushsense', 'blvd', 'bm', 'bmo', 'bmth', 'bmw', 'bmx', 'bn', 'bndl', 'bnib', 'bnip', 'bnt', 'bnwb', 'bnwot', 'bnwt', 'bo', 'bo3', 'boa', 'board', 'boards', 'boardshorts', 'boardwalk', 'boat', 'boatneck', 'boats', 'bob', 'boba', 'bobbi', 'bobbie', 'bobble', 'bobblehead', 'bobbleheads', 'bobby', 'bobs', 'boc', 'bod', 'boden', 'bodies', 'bodiez', 'bodum', 'body', 'bodybuilding', 'bodycon', 'bodyguardz', 'bodystocking', 'bodysuit', 'bodysuits', 'bodywash', 'bodyworks', 'bogo', 'bogs', 'bohemian', 'boho', 'boi', 'bold', 'bolder', 'bolero', 'bolle', 'bolo', 'bolt', 'bolts', 'bomb', 'bombay', 'bomber', 'bomberman', 'bombs', 'bombshel', 'bombshell', 'bombshells', 'bomshell', 'bon', 'bonbon', 'bonbons', 'bond', 'bondage', 'bonded', 'bondi', 'bone', 'boned', 'bones', 'bong', 'bongo', 'bongs', 'boning', 'bonita', 'bonne', 'bonnet', 'bonnie', 'bons', 'bonus', 'boo', 'boobies', 'boogie', 'boohoo', 'book', 'bookbag', 'bookends', 'booklet', 'booklets', 'bookmark', 'bookmarks', 'books', 'boom', 'boombox', 'boon', 'boop', 'boos', 'boost', 'booster', 'boosters', 'boosting', 'boosts', 'boot', 'bootcut', 'booth', 'bootie', 'booties', 'bootleg', 'boots', 'booty', 'boozled', 'bop', 'boppy', 'borax', 'bordeaux', 'border', 'borderlands', 'borealis', 'born', 'borrego', 'boscia', 'bose', 'bosom', 'boss', 'bossk', 'boston', 'bot', 'botanical', 'botanicals', 'botas', 'both', 'bots', 'bottega', 'bottle', 'bottles', 'bottom', 'bottoms', 'botton', 'bouche', 'boudoir', 'bougainvillea', 'bought', 'bounce', 'bouncer', 'bouncy', 'bound', 'boundaries', 'boundle', 'bounty', 'bouquet', 'bourbon', 'bourke', 'bourne', 'boutine', 'boutique', 'bow', 'bowie', 'bowknot', 'bowl', 'bowler', 'bowling', 'bowls', 'bowman', 'bows', 'bowser', 'bowtie', 'box', 'boxed', 'boxer', 'boxers', 'box

es', 'boxing', 'boxwood', 'boxy', 'boxycharm', 'boy', 'boyd', 'boyds', 'boyfriend', 'boys', 'boyshort', 'boyshorts', 'bp', 'br', 'bra', 'brace', 'bracelet', 'bracelets', 'braces', 'bracket', 'braclet', 'braclets', 'brad', 'bradford', 'bradley', 'bradly', 'bradshaw', 'brady', 'brahmin', 'braid', 'braided', 'braiding', 'braids', 'brain', 'bralet', 'bralett', 'bralette', 'bralettes', 'brallete', 'brallette', 'bran', 'branch', 'brand', 'branded', 'brandi', 'brandnew', 'brandon', 'brands', 'brandt', 'brandy', 'bras', 'brash', 'brasil', 'brasilia', 'brass', 'bratz', 'braun', 'bravado', 'brave', 'braves', 'bravo', 'brawl', 'brazil', 'brazilian', 'brazillian', 'brazilliance', 'bre', 'bread', 'breadou', 'break', 'breakaway', 'breaker', 'breakfast', 'breaking', 'breast', 'breasted', 'breastfeeding', 'breastmilk', 'breastpump', 'breath', 'breathable', 'breathe', 'breathless', 'breckelle', 'bred', 'breds', 'bree', 'breeches', 'breed', 'breeze', 'breezy', 'breitling', 'brenda', 'brenna', 'brest', 'brett', 'breville', 'brew', 'brewer', 'brewers', 'brewing', 'brewster', 'breyer', 'brezza', 'bri', 'brian', 'briana', 'brianna', 'briar', 'brica', 'brick', 'bricks', 'bridal', 'bride', 'brides', 'bridesmaid', 'bridesmaids', 'bridge', 'bridget', 'bridgette', 'bridle', 'brie', 'brief', 'briefcase', 'briefs', 'bright', 'brighten', 'brightener', 'brightening', 'brighter', 'brighton', 'brights', 'brilliance', 'brilliant', 'brim', 'bring', 'brinkley', 'briogeo', 'bristle', 'bristol', 'brit', 'brita', 'britax', 'brite', 'british', 'britney', 'britt', 'brittany', 'britten', 'brittney', 'brixton', 'brn', 'bro', 'broach', 'broad', 'broadway', 'brocade', 'brock', 'broke', 'broken', 'bronco', 'broncos', 'bronx', 'bronze', 'bronzed', 'bronzer', 'bronzers', 'bronzing', 'brooch', 'brooches', 'brook', 'brooke', 'brooklyn', 'brooks', 'brookstone', 'broom', 'bros', 'brother', 'brotherhood', 'brothers', 'brow', 'browgal', 'browline', 'brown', 'brownie', 'browning', 'browns', 'brows', 'browvo', 'bruce', 'bruins', 'brunch', 'brunette', 'bruno', 'brush', 'brushed', 'brushegg', 'brushes', 'brute', 'brwn', 'bryan', 'bryant', 'bryce', 'brûlée', 'bs', 'bsick', 'bt', 'bts', 'btw', 'bu', 'bubba', 'bubble', 'bubblegum', 'bubbler', 'bubblers', 'bubbles', 'bubbly', 'bubdle', 'buccaneers', 'buchman', 'buck', 'bucked', 'bucket', 'buckets', 'buckeyes', 'buckle', 'buckled', 'buckles', 'bucks', 'bud', 'buddha', 'buddies', 'buddle', 'buddy', 'budle', 'budokai', 'buds', 'budweiser', 'buff', 'buffalo', 'buffbunny', 'buffer', 'buffet', 'buffing', 'buffy', 'bug', 'bugaboo', 'buggy', 'bugs', 'build', 'builder', 'building', 'built', 'bulb', 'bulbasaur', 'bulbs', 'bulgari', 'bulk', 'bull', 'bulldog', 'bulldogs', 'bullet', 'bulletproof', 'bullets', 'bullhead', 'bulls', 'bullseye', 'bully', 'bulova', 'bum', 'bumble', 'bumblebee', 'bumbo', 'bumgenius', 'bump', 'bumper', 'bumpers', 'bun', 'bunch', 'bund', 'bundel', 'bundl', 'bundle', 'bundled', 'bundles', 'bundt', 'bungee', 'bunk', 'bunnies', 'bunny', 'buns', 'bunting', 'burberry', 'burch', 'burgandy', 'burger', 'burgers', 'burgundy', 'burke', 'burlap', 'burlesque', 'burn', 'burned', 'burner', 'burning', 'burnout', 'burns', 'burnt', 'burp', 'burpy', 'burst', 'burt', 'burtle', 'burton', 'burts', 'bus', 'busenitz', 'bush', 'bushnell', 'business', 'buskins', 'bust', 'buster', 'busters', 'bustier', 'bustle', 'busy', 'but', 'butane', 'butch', 'butler', 'butt', 'butter', 'buttercream', 'buttercup', 'butterflies', 'butterfly', 'butterprint', 'butters', 'buttery', 'butthead', 'button', 'buttondown', 'buttoned', 'buttons', 'buttonup', 'butts', 'buu', 'buxom', 'buxton', 'buy', 'buyer', 'buyers', 'buying', 'buzz', 'bvlgari', 'bvs', 'bw', 'bx', 'by', 'byas', 'bybel', 'bye', 'byer', 'byrne', 'bz', 'c2d', 'c4', 'c9', 'ca', 'cab', 'cabana', 'cabas', 'cabbage', 'cabela', 'cabelas', 'cabi', 'cabin', 'cabinet', 'cable', 'cables', 'cabochon', 'cabochons', 'caboodle', 'caboodles', 'cache', 'cacique', 'cacti', 'cactus', 'caddy', 'cadence', 'cadet', 'cadillac', 'cafe', 'caffeine', 'caftan', 'café', 'cage', 'caged', 'caillou', 'caitlin', 'caitlyn', 'cake', 'caked', 'cakes', 'cal', 'calacas', 'calculator', 'calculus', 'calendar', 'calf', 'cali', 'calia', 'caliber', 'calibur', 'calico', 'california', 'calista', 'call', 'callahan', 'callahans', 'callaway', 'called', 'calligraphy', 'calling', 'callus', 'calm', 'calming', 'calphalon', 'calvin', 'calypso', 'cam', 'camara', 'camaro', 'cambogia', 'cambridge', 'camcorder', 'came', 'camel', 'camelbak', 'cameleon', 'ca

mellia', 'cameo', 'camera', 'cameras', 'cameron', 'cami', 'camille', 'camis', 'camisole', 'camisoles', 'camo', 'camoflauge', 'camouflage', 'camp', 'campana', 'campbell', 'camper', 'campfire', 'camping', 'campus', 'camuto', 'can', 'canada', 'canadian', 'canary', 'canceling', 'cancer', 'candace', 'candice', 'candie', 'candies', 'candle', 'candleholder', 'candlelight', 'candles', 'candlesticks', 'candy', 'candylipz', 'candyshell', 'cane', 'canes', 'canister', 'canisters', 'cannabis', 'cannon', 'canon', 'canopy', 'cans', 'cant', 'canteen', 'canterberry', 'cantu', 'canvas', 'canvases', 'canyon', 'cap', 'capcom', 'cape', 'capelli', 'capezio', 'capo', 'cappuccino', 'capri', 'capricorn', 'capris', 'caps', 'capsule', 'capsules', 'capt', 'captain', 'captive', 'capture', 'car', 'cara', 'carafe', 'caramel', 'carat', 'caravan', 'carb', 'carbide', 'carbon', 'carbonated', 'card', 'cardboard', 'cardholder', 'cardi', 'cardigan', 'cardigans', 'cardinal', 'cardinals', 'cardio', 'cardiology', 'cards', 'cardstock', 'cardy', 'care', 'carebear', 'career', 'carefree', 'careprost', 'cares', 'caress', 'carey', 'cargo', 'cargos', 'carhart', 'carhartt', 'caribbean', 'caribou', 'carl', 'carla', 'carle', 'carley', 'carli', 'carlos', 'carly', 'carmar', 'carmel', 'carmelo', 'carmen', 'carmex', 'carmine', 'carnage', 'carnelian', 'carnival', 'carol', 'carole', 'carolina', 'caroline', 'carols', 'carolyn', 'caron', 'carousel', 'carpenter', 'carpet', 'carr', 'carrera', 'carriage', 'carrie', 'carried', 'carrier', 'carrot', 'carry', 'carryall', 'carrying', 'carryon', 'cars', 'carseat', 'carson', 'cart', 'carter', 'carters', 'cartier', 'cartilage', 'carton', 'cartoon', 'cartridge', 'cartridges', 'carved', 'carving', 'cas', 'casa', 'cascade', 'case', 'casemate', 'caseology', 'cases', 'casey', 'cash', 'cashew', 'cashmere', 'casino', 'casio', 'cass', 'cassandra', 'casserole', 'cassette', 'cassettes', 'cassidy', 'cassie', 'cast', 'castaway', 'castell', 'castiel', 'casting', 'castle', 'castles', 'castlevania', 'castor', 'casual', 'cat', 'catalina', 'catalyst', 'catch', 'catcher', 'catchers', 'catching', 'catdog', 'caterpillar', 'cateye', 'cathedral', 'catherine', 'cathy', 'cato', 'cats', 'catsuit', 'catty', 'catwalk', 'catwoman', 'catz', 'caudalie', 'cauldron', 'causal', 'cause', 'cavaliers', 'cavalli', 'cave', 'caviar', 'cavs', 'cb', 'cc', 'ccm', 'cd', 'cdg', 'cds', 'ce', 'ce4', 'cece', 'cecile', 'cecilia', 'cedar', 'cedarwood', 'ceiling', 'celeb', 'celebrate', 'celebration', 'celebrity', 'celeste', 'celestial', 'celine', 'cell', 'cellar', 'cello', 'cellophane', 'cellphone', 'cellucor', 'cellular', 'cellulite', 'celtic', 'celtics', 'cement', 'cena', 'cent', 'center', 'centerpiece', 'centers', 'central', 'cents', 'century', 'ceramic', 'cerave', 'cereal', 'ceremony', 'certified', 'cetaphil', 'cf', 'cg', 'ch', 'cha', 'chaco', 'chacos', 'chai', 'chain', 'chained', 'chains', 'chainsaw', 'chair', 'chairs', 'chakra', 'chalcedony', 'chalk', 'chalkboard', 'challenge', 'chamber', 'chambray', 'chameleon', 'chamilia', 'chamomile', 'champ', 'champagne', 'champion', 'champions', 'championship', 'champs', 'chan', 'chance', 'chandelier', 'chandler', 'chanel', 'change', 'changer', 'changes', 'changing', 'channel', 'chantel', 'chantelle', 'chantilly', 'chaos', 'chap', 'chaps', 'chapstick', 'chapsticks', 'chapter', 'char', 'character', 'characters', 'charcoal', 'charge', 'charged', 'charger', 'chargers', 'charging', 'charity', 'charizard', 'charlene', 'charles', 'charlie', 'charlies', 'charlotte', 'charlottes', 'charm', 'charmander', 'charmed', 'charmin', 'charming', 'charms', 'charolette', 'chart', 'charter', 'chase', 'chaser', 'chat', 'chateau', 'chaturanga', 'chawa', 'chaz', 'cheap', 'cheapest', 'check', 'checkbook', 'checked', 'checker', 'checkerboard', 'checkered', 'checkers', 'checks', 'cheech', 'cheek', 'cheekathon', 'cheekies', 'cheekini', 'cheeks', 'cheekster', 'cheeksters', 'cheeky', 'cheer', 'cheerleader', 'cheerleading', 'cheers', 'cheese', 'cheeseburger', 'cheesecake', 'cheeta', 'cheetah', 'chef', 'chefs', 'chek', 'chella', 'chelsea', 'chemical', 'chemise', 'chemistry', 'chenille', 'cher', 'cheri', 'cherie', 'cherish', 'cherished', 'cherokee', 'cherries', 'cherry', 'cherub', 'chery', 'cheryl', 'cheshire', 'chess', 'chest', 'chester', 'chestnut', 'chevrolet', 'chevron', 'chevy', 'chew', 'chewbacca', 'chewed', 'chews', 'chewy', 'cheyenne', 'chi', 'chia', 'chibi', 'chic', 'chica', 'chicago', 'chicco', 'chicharito', 'chick', 'chicken', 'chicks', 'chico', 'chicos', 'chie

f', 'chiefs', 'chiffon', 'chihuahua', 'chihuahuas', 'child', 'children', 'childrens', 'childs', 'chili', 'chill', 'chillin', 'chillum', 'chilly', 'chima', 'chime', 'chin', 'china', 'chinchilla', 'chinese', 'chino', 'chinos', 'chip', 'chipmunk', 'chipmunks', 'chipotle', 'chipper', 'chips', 'chirp', 'chisel', 'chivas', 'chive', 'chloe', 'chloé', 'choc', 'chocker', 'chockers', 'choco', 'chococat', 'chocolate', 'choice', 'choices', 'choke', 'choker', 'chokers', 'chong', 'choo', 'chooks', 'choose', 'chop', 'chopper', 'chopsticks', 'chord', 'chow', 'chris', 'chrissa', 'chrissy', 'christ', 'christa', 'christening', 'christian', 'christie', 'christina', 'christine', 'christingle', 'christmas', 'christophe', 'christopher', 'christy', 'chroma', 'chrome', 'chromebook', 'chromecast', 'chronicles', 'chrono', 'chronograph', 'chrysalis', 'chubbies', 'chubby', 'chuck', 'chuckie', 'chucks', 'chucky', 'chug', 'chuggington', 'chukka', 'chunk', 'chunky', 'church', 'churro', 'ciao', 'ciara', 'ciate', 'ciaté', 'cib', 'cider', 'ciel', 'cielo', 'cig', 'cigar', 'cigarette', 'cils', 'cinch', 'cinched', 'cincher', 'cincinnati', 'cinder', 'cinderella', 'cindy', 'cinema', 'cinnamon', 'cipher', 'circa', 'circle', 'circles', 'circo', 'circuit', 'circular', 'circus', 'citizen', 'citizens', 'citrine', 'citron', 'citrus', 'city', 'civil', 'cize', 'cj', 'ck', 'cl', 'cla', 'clad', 'claddagh', 'claiborne', 'claire', 'claires', 'clairol', 'clam', 'clamp', 'clamshell', 'clan', 'clancy', 'clank', 'clara', 'clarifying', 'clarinet', 'clarins', 'clarisonic', 'clarity', 'clark', 'clarke', 'clarks', 'clash', 'clasp', 'class', 'classic', 'classical', 'classics', 'classroom', 'classy', 'claudia', 'claus', 'clause', 'claw', 'clawdeen', 'claws', 'clay', 'clayton', 'cle', 'clean', 'cleaner', 'cleaners', 'cleaning', 'cleans', 'cleanse', 'cleanser', 'cleansers', 'cleansing', 'clear', 'clearance', 'clearblue', 'clearenced', 'clearing', 'clearproof', 'cleat', 'cleats', 'clementine', 'clemson', 'cleo', 'cleopatra', 'cles', 'cleveland', 'clever', 'clic', 'click', 'clicker', 'cliff', 'clifford', 'cliffs', 'clima', 'climacool', 'climalite', 'climate', 'climawarm', 'climber', 'climbers', 'climbing', 'cling', 'clinical', 'clinique', 'clinton', 'clip', 'clipper', 'clippers', 'clippings', 'clips', 'cloak', 'clock', 'clocks', 'cloe', 'clog', 'clogs', 'clone', 'clorox', 'close', 'closed', 'closeout', 'closer', 'closet', 'closing', 'closure', 'cloth', 'clothe', 'clothes', 'clothing', 'cloths', 'cloud', 'cloudberry', 'cloudfoam', 'clouds', 'cloudy', 'clove', 'clover', 'clown', 'clr', 'club', 'clubhouse', 'clubmaster', 'clubmasters', 'clubs', 'clue', 'clueless', 'clues', 'cluster', 'clutch', 'clutches', 'clyde', 'cm', 'cn', 'cnd', 'co', 'co2', 'coa', 'coach', 'coachella', 'coal', 'coast', 'coastal', 'coaster', 'coasters', 'coat', 'coated', 'coats', 'cobain', 'cobalt', 'cobble', 'cobra', 'coby', 'coca', 'cocker', 'cocktail', 'coco', 'cocoa', 'coconut', 'coconuts', 'cocoon', 'cod', 'code', 'codes', 'cody', 'coe', 'coffe', 'coffee', 'coffin', 'cognac', 'cogsworth', 'coil', 'coils', 'coin', 'coins', 'coke', 'cola', 'colada', 'colander', 'cold', 'coldgear', 'coldplay', 'coldwater', 'cole', 'coleman', 'colette', 'colgate', 'colin', 'coll', 'collab', 'collaboration', 'collage', 'collagen', 'collapsible', 'collar', 'collard', 'collared', 'collars', 'collect', 'collectable', 'collectible', 'collectibles', 'collection', 'collections', 'collective', 'collector', 'collectors', 'colleen', 'college', 'colleggtibles', 'collegiate', 'collide', 'collie', 'collin', 'collins', 'cologne', 'colognes', 'colombia', 'colombian', 'colombiana', 'colon', 'colonge', 'colonial', 'color', 'colorado', 'colorblend', 'colorblends', 'colorblock', 'colored', 'colorful', 'colorfully', 'coloring', 'colorpop', 'colors', 'colorsilk', 'colorstay', 'colorway', 'colossal', 'colosseum', 'colossus', 'colour', 'coloured', 'colourpop', 'colster', 'colts', 'columbia', 'columbian', 'columnist', 'com', 'comb', 'combat', 'combination', 'combined', 'combo', 'combs', 'come', 'comedy', 'comes', 'comet', 'comfort', 'comfortable', 'comforter', 'comfy', 'comic', 'comics', 'comikaze', 'coming', 'command', 'commander', 'commando', 'comme', 'commemorative', 'common', 'commuter', 'como', 'comotomo', 'comp', 'compact', 'companion', 'company', 'compaq', 'compare', 'compartment', 'compass', 'compatible', 'competition', 'complete', 'complex', 'complexion', 'component', 'composition', 'compound', 'compression', 'compton', 'computer', 'co

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o', 'prestos', 'pretend', 'pretty', 'pretzel', 'prevail', 'prevention', 'prey', 'price', 'priced', 'prices', 'pride', 'prim', 'prima', 'primal', 'primary', 'prime', 'primed', 'primeknit', 'primer', 'primers', 'priming', 'primitive', 'primrose', 'prince', 'princess', 'princesses', 'princeton', 'principles', 'print', 'printed', 'printer', 'printing', 'prints', 'priority', 'priscilla', 'prism', 'prismacolor', 'prismatic', 'prison', 'prisoner', 'pristine', 'privacy', 'private', 'prizm', 'prm', 'pro', 'proactiv', 'proactive', 'probiotic', 'problems', 'processor', 'proctor', 'produce', 'product', 'products', 'prof', 'professional', 'professionals', 'professor', 'profile', 'profusion', 'proglide', 'program', 'prohibido', 'project', 'projection', 'projector', 'prolessa', 'prolongwear', 'prom', 'promise', 'promo', 'promotional', 'prompts', 'prong', 'proof', 'prop', 'proper', 'prophecy', 'props', 'pros', 'proshield', 'prosperity', 'prot', 'protec', 'protect', 'protectant', 'protecter', 'protection', 'protective', 'protector', 'protectors', 'protein', 'proto', 'prototype', 'provocateur', 'prs', 'prt', 'ps', 'ps1', 'ps2', 'ps3', 'ps4', 'psa', 'psg', 'psone', 'psp', 'psvita', 'psych', 'psychedelic', 'psychic', 'psycho', 'psychology', 'pt', 'ptr', 'pu', 'pua', 'public', 'puck', 'pucker', 'puddin', 'pudding', 'puddle', 'puerto', 'puff', 'puffball', 'puffer', 'puffs', 'puffy', 'pug', 'pugs', 'pulitzer', 'pull', 'pullip', 'pullitzer', 'pullover', 'pullovers', 'pulls', 'pulp', 'pulse', 'puma', 'pumas', 'pump', 'pumping', 'pumpkin', 'pumpkins', 'pumps', 'punch', 'punches', 'puni', 'punisher', 'punk', 'pup', 'puppet', 'puppets', 'puppies', 'puppy', 'pups', 'pur', 'pura', 'puravida', 'purchase', 'purchased', 'purdue', 'pure', 'pureboost', 'purely', 'pureology', 'purex', 'purfume', 'purge', 'purification', 'purifier', 'purifying', 'purina', 'purity', 'purple', 'purpose', 'purr', 'purrfect', 'purse', 'purses', 'pursuit', 'push', 'pusheen', 'pushup', 'put', 'putter', 'putty', 'puzzle', 'puzzles', 'pvc', 'pw', 'px', 'pyramid', 'pyrex', 'pyrite', 'python', 'pz', 'pür', 'qalo', 'qc35', 'qi', 'qibest', 'qs', 'qt', 'qty', 'quad', 'quadcopter', 'quail', 'quality', 'quantity', 'quantum', 'quart', 'quarter', 'quarters', 'quarterzip', 'quartz', 'quatrefoil', 'quattro', 'quay', 'queen', 'queens', 'quench', 'quest', 'question', 'questions', 'qui', 'quick', 'quickie', 'quicksand', 'quicksilver', 'quiet', 'quietcomfort', 'quiksilver', 'quilt', 'quilted', 'quilting', 'quinn', 'quintanilla', 'quit', 'quote', 'quotes', 'qupid', 'r1', 'r2', 'r2d2', 'r4', 'r5', 'r9', 'r_1', 'ra', 'rabanne', 'rabbit', 'rabbits', 'raccoon', 'raccoons', 'race', 'racer', 'racerback', 'racers', 'rachael', 'rachel', 'rachelle', 'raches', 'racing', 'rack', 'racket', 'rackets', 'racks', 'racoon', 'racquet', 'rad', 'radar', 'radeon', 'radial', 'radiance', 'radiant', 'radio', 'rae', 'raedunn', 'rafaelian', 'rag', 'rage', 'raggedy', 'raglan', 'rags', 'raichu', 'raid', 'raider', 'raiders', 'rail', 'rails', 'rain', 'rainboot', 'rainboots', 'rainbow', 'rainbows', 'raincoat', 'raine', 'rainforest', 'rainn', 'rainy', 'raised', 'rally', 'ralph', 'ram', 'rambler', 'ramblers', 'ramekins', 'ramen', 'ramirez', 'ramones', 'rampage', 'rams', 'ramsey', 'ranch', 'rand', 'randall', 'random', 'randy', 'range', 'ranger', 'rangers', 'rap', 'raphael', 'rapid', 'rapper', 'raptor', 'raptors', 'rapture', 'rapunzel', 'raquel', 'rare', 'rares', 'rash', 'rashguard', 'raspberry', 'rasta', 'rastaclat', 'rat', 'ratatouille', 'ratchet', 'rate', 'rated', 'rather', 'rattan', 'rattle', 'rave', 'raven', 'ravenclaw', 'ravens', 'raw', 'rawlings', 'ray', 'rayban', 'raybans', 'rayman', 'raymond', 'rayne', 'rayon', 'rayquaza', 'rays', 'razer', 'razor', 'razorback', 'razorbacks', 'razors', 'razr', 'razzberry', 'rb', 'rb3025', 'rbx', 'rc', 'rca', 'rcma', 'rd', 'rda', 're', 're9', 'rea', 'reach', 'reaction', 'read', 'reader', 'readers', 'reading', 'ready', 'reagan', 'real', 'realher', 'realistic', 'reality', 'really', 'realtree', 'reaper', 'rear', 'reasons', 'reax', 'reba', 'rebecca', 'rebel', 'rebelle', 'rebels', 'rebirth', 'rebook', 'reborn', 'receipt', 'receiver', 'receiving', 'rechargeable', 'recipe', 'recipes', 'reckless', 'recollections', 'recon', 'record', 'recorder', 'recording', 'records', 'recover', 'recovery', 'rectangle', 'rectangular', 'recycled', 'red', 'reddish', 'redefine', 'redemption', 'redhead', 'redken', 'redline', 'redness', 'reds', 'redskin', 'redskins', 'redsox', 'reduce', 'redu

ced', 'reducer', 'reduction', 'redwood', 'reebok', 'reeboks', 'reebox', 'reed', 'reef', 'reel', 'reels', 'reese', 'ref', 'referee', 'reference', 'refill', 'refillable', 'refills', 'refined', 'refining', 'reflect', 'reflection', 'reflective', 'reflex', 'reformation', 'refractor', 'refresh', 'refresher', 'refreshing', 'refrigerator', 'refuge', 'refurbished', 'reg', 'regal', 'regan', 'regenerating', 'regenerist', 'reggae', 'reggie', 'regimen', 'regina', 'register', 'regrowth', 'regular', 'rehab', 'rei', 'reign', 'reigns', 'reiki', 'rein', 'reindeer', 'reissue', 'rejuvenating', 'relax', 'relaxed', 'relay', 'release', 'relentless', 'relentlessly', 'relic', 'relief', 'reliever', 'religion', 'religions', 'religious', 'reloaded', 'remarcable', 'remastered', 'remedy', 'remember', 'remi', 'remington', 'remix', 'remote', 'remotes', 'removable', 'removal', 'remove', 'remover', 'removers', 'removes', 'removing', 'remy', 'ren', 'renaissance', 'rene', 'renee', 'renegade', 'renergie', 'renew', 'renewal', 'renewed', 'renewing', 'renta', 'repair', 'repairing', 'repairwear', 'repeat', 'repellent', 'repeller', 'replacement', 'replacements', 'replay', 'replenish', 'replenishing', 'report', 'repost', 'repro', 'reptar', 'reptile', 'republic', 'request', 'requested', 'rerock', 'res', 'resale', 'rescue', 'resealable', 'reserve', 'reserved', 'reseved', 'resident', 'resilience', 'resin', 'resist', 'resistance', 'resistant', 'resmed', 'resolve', 'resort', 'response', 'rest', 'restaurant', 'resting', 'restoration', 'restorative', 'restore', 'restricted', 'results', 'resurfacing', 'resv', 'ret', 'retail', 'retails', 'retainer', 'retin', 'retina', 'retinol', 'retired', 'retool', 'retractable', 'retreat', 'retriever', 'retro', 'retron', 'retros', 'return', 'returns', 'reusable', 'rev', 'reva', 'reveal', 'revealed', 'revelations', 'revenge', 'reversable', 'reverse', 'reversible', 'review', 'revised', 'revitalash', 'revitalift', 'revitalizing', 'revival', 'revivals', 'revive', 'revlon', 'revo', 'revolution', 'revolver', 'revos', 'reward', 'rewards', 'rewind', 'rex', 'rey', 'rfid', 'rg', 'rgb', 'rh', 'rhea', 'rhianna', 'rhinestone', 'rhinestoned', 'rhinestones', 'rhino', 'rhodium', 'rhonda', 'rhythm', 'rib', 'ribbed', 'ribbon', 'ribbons', 'ricci', 'rice', 'rich', 'richard', 'richards', 'rick', 'ricky', 'rico', 'riddell', 'riddler', 'ride', 'rider', 'riders', 'rides', 'ridez', 'ridge', 'ridgid', 'riding', 'rifle', 'rig', 'right', 'rihanna', 'rilakkuma', 'riley', 'rim', 'rimless', 'rimmed', 'rimmel', 'rin', 'ring', 'ringer', 'rings', 'rinse', 'rio', 'riot', 'rip', 'ripcurl', 'ripka', 'ripken', 'ripndip', 'ripped', 'riri', 'rise', 'risers', 'rising', 'rita', 'rite', 'ritual', 'ritzy', 'rival', 'rivals', 'river', 'rivera', 'rivers', 'rivet', 'riviera', 'rizzo', 'rk', 'rl', 'rm', 'rms', 'rn', 'ro', 'road', 'roadrunner', 'roads', 'roadster', 'roar', 'roaring', 'roast', 'rob', 'robber', 'robbie', 'robe', 'robeez', 'robert', 'roberto', 'roberts', 'robertson', 'robes', 'robin', 'robins', 'robinson', 'robo', 'robocop', 'robot', 'robotic', 'robots', 'robyn', 'roc', 'rocawear', 'rocco', 'roche', 'rochelle', 'rocher', 'rock', 'rockabilly', 'rockaroo', 'rockband', 'rocker', 'rockers', 'rocket', 'rockets', 'rockies', 'rockin', 'rocking', 'rockport', 'rocks', 'rocksmith', 'rockstar', 'rockstud', 'rocky', 'rod', 'rodan', 'rodent', 'rodeo', 'rodgers', 'rodriguez', 'rods', 'roe', 'roethlisberger', 'rogaine', 'roger', 'rogers', 'rogue', 'roku', 'rolex', 'rolf', 'roll', 'rolled', 'roller', 'rollerball', 'rollerballs', 'rollerblades', 'rollers', 'rolling', 'rollins', 'rolls', 'rom', 'roma', 'roman', 'romance', 'romantic', 'rome', 'romeo', 'romo', 'romper', 'rompers', 'romwe', 'romy', 'ron', 'ronaldo', 'ronnie', 'roo', 'rookie', 'rookies', 'room', 'roomba', 'rooster', 'root', 'rootbeer', 'roots', 'rope', 'roper', 'rory', 'rosa', 'rosarco', 'rosary', 'rosche', 'rose', 'roseberry', 'rosebud', 'rosegold', 'rosehip', 'rosemary', 'roses', 'rosetta', 'rosette', 'rosetti', 'rosewater', 'rosewood', 'roshe', 'rosherun', 'roshes', 'rosie', 'ross', 'rosy', 'rosé', 'rotary', 'rotating', 'rotation', 'roth', 'rotten', 'rouched', 'rouge', 'rough', 'round', 'rounded', 'roundie', 'route', 'router', 'row', 'rowdy', 'rowley', 'rox', 'roxy', 'roy', 'royal', 'royale', 'royals', 'royalty', 'rpg', 'rr', 'rs', 'rsq', 'rsrvd', 'rsvd', 'rsvp', 'rt', 'rtic', 'ruana', 'rub', 'rubber', 'rubbermaid', 'rubies', 'rubik', 'rubix', 'ruby', 'ruched', 'rucksack', 'rude', 'rudolph', 'ru

e', 'rue21', 'ruffle', 'ruffled', 'ruffles', 'rug', 'rugby', 'rugged', 'rugrats', 'rugs', 'rule', 'ruler', 'rules', 'rulu', 'rum', 'rumble', 'run', 'runaway', 'runday', 'runner', 'runners', 'running', 'runs', 'runway', 'rupi', 'ruse', 'rush', 'rusk', 'russ', 'russe', 'russell', 'russia', 'russian', 'rust', 'rustic', 'rusty', 'ruth', 'ruthie', 'ruum', 'rv', 'rvca', 'rx', 'ryan', 'ryder', 'ryk', 'ryka', 'ryobi', 'ryu', 'rénergie', 's1', 's2', 's3', 's4', 's5', 's6', 's7', 's8', 's9', 's925', 's925ss', 'sabbath', 'saber', 'sabika', 'sabine', 'sable', 'sabo', 'sabrina', 'sac', 'sacha', 'sachets', 'sachi', 'sack', 'sacks', 'sacred', 'saddle', 'sadie', 'sadness', 'safari', 'safe', 'safety', 'saffiano', 'sag', 'saga', 'sage', 'sagittarius', 'sahara', 'saharan', 'saige', 'sail', 'sailboat', 'sailing', 'sailor', 'saint', 'saints', 'saiyan', 'sak', 'sake', 'sakroots', 'saks', 'sakura', 'salad', 'salar', 'sale', 'saleee', 'salem', 'sales', 'sally', 'salmon', 'salomon', 'salon', 'salt', 'salted', 'saltwater', 'salty', 'salutation', 'salute', 'salvage', 'salvatore', 'salve', 'sam', 'samantha', 'samba', 'same', 'sammie', 'sammy', 'samoa', 'samoas', 'samon', 'samorga', 'sample', 'sampler', 'samplers', 'samples', 'samra', 'samsonite', 'samsung', 'samuel', 'samurai', 'samyang', 'san', 'sanchez', 'sanctuary', 'sand', 'sandal', 'sandals', 'sandalwood', 'sandels', 'sanders', 'sandisk', 'sandle', 'sandles', 'sandman', 'sandra', 'sands', 'sandstone', 'sandwich', 'sandy', 'sangria', 'sanita', 'sanitizer', 'sanitizers', 'sanrio', 'sans', 'sansa', 'santa', 'santana', 'santo', 'santorini', 'sanuk', 'sanuks', 'saphire', 'sapphire', 'sara', 'sarah', 'saree', 'sariah', 'sarong', 'sarto', 'sas', 'sash', 'sasha', 'sasquatch', 'sassoon', 'sassy', 'sasuke', 'sat', 'sata', 'satan', 'satchel', 'sateen', 'satellite', 'satin', 'satiny', 'satrang', 'saturday', 'saturn', 'sauce', 'saucer', 'saucers', 'saucony', 'saudi', 'saumur', 'sauna', 'sauvage', 'savage', 'savannah', 'savasana', 'save', 'savealot', 'saved', 'saver', 'savers', 'saves', 'saving', 'savings', 'savor', 'savvy', 'saw', 'sawyer', 'sax', 'saxophone', 'say', 'says', 'sb', 'sbicca', 'sc', 'scala', 'scale', 'scales', 'scallop', 'scalloped', 'scalp', 'scamander', 'scan', 'scandal', 'scandalous', 'scanner', 'scar', 'scarab', 'scare', 'scarecrow', 'scarf', 'scarface', 'scarfs', 'scarif', 'scarlet', 'scarlett', 'scars', 'scarves', 'scary', 'sce', 'scene', 'scensty', 'scent', 'scentbird', 'scented', 'scentportable', 'scentportables', 'scents', 'scentsy', 'schick', 'schleich', 'scholastic', 'scholl', 'scholls', 'school', 'schoolgirl', 'schwarzkopf', 'schwinn', 'sci', 'science', 'scientific', 'scissor', 'scissorhands', 'scissors', 'sconce', 'sconces', 'scooby', 'scoop', 'scoopneck', 'scooter', 'scope', 'score', 'scorpio', 'scorpion', 'scotch', 'scott', 'scottie', 'scotty', 'scout', 'scouts', 'scrabble', 'scrap', 'scrapbook', 'scrapbooking', 'scraper', 'scratch', 'scratcher', 'scratches', 'scream', 'screen', 'screens', 'screw', 'screwdriver', 'scribble', 'scribblenauts', 'script', 'scripture', 'scroll', 'scrolls', 'scrub', 'scrubber', 'scrubs', 'scrump', 'scrunch', 'scrunched', 'scrunchie', 'scrunchies', 'scuba', 'scuf', 'sculpt', 'sculpted', 'sculpting', 'sculptor', 'sculpture', 'scunci', 'sd', 'sdcc', 'sdhc', 'sdxc', 'se', 'sea', 'seacret', 'seafoam', 'seagate', 'seager', 'seagull', 'seahawk', 'seahawks', 'seahorse', 'seal', 'sealed', 'sealer', 'sealing', 'seals', 'seamless', 'sean', 'sears', 'seashell', 'seaside', 'season', 'seasonal', 'seasons', 'seat', 'seatbelt', 'seated', 'seattle', 'seaweed', 'seawheeze', 'sebastian', 'sec', 'secert', 'second', 'seconds', 'secret', 'secrete', 'secrets', 'section', 'secure', 'security', 'sedona', 'seduction', 'seductive', 'see', 'seed', 'seeds', 'seek', 'seeker', 'seen', 'seersucker', 'sega', 'seiko', 'select', 'selection', 'selena', 'selenite', 'self', 'selfie', 'selfseal', 'sell', 'seller', 'sellers', 'selling', 'sells', 'selma', 'semi', 'seminoles', 'send', 'senederm', 'senegalese', 'senegence', 'senior', 'sennheiser', 'sensation', 'sensationail', 'sensational', 'sensationnel', 'sense', 'senses', 'sensitive', 'sensor', 'sensory', 'sensual', 'sentimental', 'sentry', 'separate', 'sephora', 'sepia', 'september', 'septum', 'sequence', 'sequenced', 'sequent', 'sequin', 'sequined', 'sequins', 'ser', 'serape', 'seraphine', 'serena', 'serene', 'serenity', 'seresto', 'serial', 'series', 'serious', 'serpent', 'serpentina', 'serum', 'serums', 'serve', 'ser

ved', 'server', 'service', 'serving', 'sesame', 'session', 'set', 'seth', 'sets', 'setter', 'setting', 'seuss', 'seven', 'seven7', 'sevenfold', 'seventeen', 'seventh', 'sew', 'sewing', 'sewn', 'sex', 'sexy', 'seychelles', 'sf', 'sg', 'sga', 'sh', 'shabby', 'shack', 'shade', 'shades', 'shadow', 'shadowless', 'shadows', 'shadowsense', 'shady', 'shaft', 'shag', 'shaggy', 'shaka', 'shake', 'shakeology', 'shaker', 'shakers', 'shakes', 'shakespeare', 'shakira', 'shalimar', 'shall', 'shalwar', 'sham', 'shamballa', 'shameless', 'shamp', 'shampoo', 'shampoos', 'shamrock', 'shams', 'shan', 'shana', 'shane', 'shannon', 'shanti', 'shany', 'shape', 'shaped', 'shaper', 'shapers', 'shapes', 'shapeshifter', 'shapewear', 'shaping', 'shaq', 'shaquille', 'shara', 'share', 'shari', 'shark', 'sharks', 'sharon', 'sharp', 'sharpener', 'sharper', 'sharpie', 'sharpies', 'shatter', 'shattered', 'shaun', 'shave', 'shaver', 'shaving', 'shaw', 'shawl', 'shawn', 'shay', 'shaymin', 'she', 'shea', 'shear', 'shearling', 'shears', 'sheath', 'sheen', 'sheep', 'sheepskin', 'sheer', 'sheeran', 'sheet', 'sheets', 'sheik', 'sheila', 'shein', 'shelby', 'sheldon', 'shelf', 'shell', 'shellac', 'shelley', 'shelli', 'shells', 'shelly', 'shelton', 'shelves', 'shep', 'shepard', 'shepherd', 'sherbet', 'sheri', 'sheriff', 'sherlock', 'sherman', 'sherpa', 'sherri', 'sherry', 'shi', 'shiatsu', 'shibori', 'shield', 'shields', 'shift', 'shifter', 'shills', 'shimano', 'shimmer', 'shimmering', 'shimmery', 'shin', 'shine', 'shining', 'shinny', 'shiny', 'ship', 'shipp', 'shipped', 'shippi', 'shippin', 'shipping', 'shippuden', 'ships', 'shir', 'shirley', 'shirt', 'shirtdress', 'shirts', 'shiseido', 'shisha', 'shldr', 'shock', 'shockproof', 'shocks', 'shoe', 'shoedazzle', 'shoelaces', 'shoes', 'sholder', 'shoot', 'shooter', 'shooting', 'shop', 'shopaholic', 'shopkin', 'shopkins', 'shoppe', 'shopper', 'shoppies', 'shopping', 'shops', 'shore', 'shoreline', 'short', 'shortalls', 'shortcake', 'shorthair', 'shortie', 'shorties', 'shorts', 'shorty', 'shot', 'shotgun', 'shots', 'should', 'shoulder', 'shoulders', 'shovel', 'show', 'showcase', 'showdown', 'shower', 'shown', 'showstopper', 'showtime', 'shox', 'shp', 'shred', 'shredded', 'shredder', 'shredz', 'shrek', 'shrimp', 'shroom', 'shrug', 'shu', 'shuffle', 'shure', 'shut', 'shuttle', 'shy', 'si', 'siamese', 'siberian', 'sick', 'sid', 'side', 'sided', 'sidekick', 'sider', 'siders', 'sides', 'sidewalk', 'sidney', 'siege', 'siena', 'sienna', 'sierra', 'sifter', 'sig', 'sight', 'sigma', 'sign', 'signal', 'signature', 'signed', 'signs', 'silence', 'silent', 'silex', 'silhouette', 'silicon', 'silicone', 'silisponge', 'silk', 'silky', 'silly', 'silpada', 'silver', 'silvers', 'silvertone', 'silverware', 'sim', 'simba', 'similac', 'similar', 'simmons', 'simon', 'simone', 'simple', 'simply', 'simpson', 'simpsons', 'sims', 'simulated', 'simulator', 'sin', 'sinatra', 'since', 'sinful', 'sing', 'singer', 'singing', 'single', 'singles', 'singlet', 'sings', 'sink', 'sinner', 'sip', 'sippin', 'sippy', 'sir', 'siren', 'sirens', 'siriano', 'sirius', 'sis', 'sisley', 'sister', 'sisters', 'sit', 'sitting', 'six', 'sixers', 'sixth', 'sixty', 'siz', 'size', 'size10', 'size11', 'size12', 'size2', 'size3', 'size4', 'size5', 'size6', 'size7', 'size8', 'size9', 'sized', 'sizem', 'sizer', 'sizes', 'sizzix', 'sk', 'sk8', 'skagen', 'skate', 'skateboard', 'skateboarding', 'skateboards', 'skater', 'skates', 'skating', 'skechers', 'skeins', 'skelecorn', 'skelecorns', 'skeleton', 'skeletons', 'skeletor', 'skelita', 'skellington', 'skelton', 'sketch', 'sketchbook', 'sketcher', 'sketchers', 'sketches', 'ski', 'skidders', 'skies', 'skiing', 'skillet', 'skimmer', 'skin', 'skincare', 'skinceuticals', 'skindinavia', 'skinfinish', 'skinfood', 'skinmedica', 'skinn', 'skinnies', 'skinniest', 'skinny', 'skinnys', 'skins', 'skintreats', 'skinvigorate', 'skip', 'skipper', 'skirt', 'skirted', 'skirts', 'skittles', 'skool', 'skort', 'skorts', 'skull', 'skullcandy', 'skulls', 'skunk', 'sky', 'skybox', 'skye', 'skylander', 'skylanders', 'skylar', 'skylars', 'skyler', 'skylie', 'skyline', 'skyn', 'skynyrd', 'skyrim', 'skywalker', 'skyward', 'sl', 'slack', 'slacks', 'slam', 'slant', 'slash', 'slate', 'slatkin', 'slave', 'slay', 'slayer', 'sleek', 'sleep', 'sleeper', 'sleepers', 'sleeping', 'sleepmask', 'sleepover', 'sleepsack', 'sleepshirt', 'sleepsuit', 'sleepwear', 'sleepy', 'sleeve', 'sleeved', 'sleeveless', 'sleeves', 'sleigh', 'sleve', 'slice', 'slic

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'swaddler', 'swaddlers', 'swaddles', 'swag', 'swagger', 'swamp', 'swan', 'swapp', 'swarovski', 'swat', 'swatch', 'swatched', 'swear', 'sweat', 'sweater', 'sweaters', 'sweatpant', 'sweatpants', 'sweats', 'sweatshirt', 'sweatshirts', 'sweatsuit', 'sweatsuits', 'sweaty', 'swedish', 'sweep', 'sweeper', 'sweet', 'sweetest', 'sweetheart', 'sweethearts', 'sweetie', 'sweets', 'swell', 'swiffer', 'swift', 'swiftly', 'swifty', 'swim', 'swimdress', 'swimming', 'swimsuit', 'swimsuits', 'swimwear', 'swing', 'swingman', 'swingpack', 'swirl', 'swirls', 'swiss', 'switch', 'swivel', 'swoosh', 'sword', 'swords', 'sx', 'sydney', 'sylvania', 'sylveon', 'sylvia', 'syma', 'symbol', 'symmetry', 'symphony', 'sync', 'synchilla', 'syndicate', 'synergy', 'synthetic', 'syracuse', 'syringe', 'syringes', 'syrup', 'system', 'systems', 'sz', 'sz10', 'sz11', 'sz12', 'sz13', 'sz14', 'sz16', 'sz2', 'sz3', 'sz4', 'sz5', 'sz6', 'sz7', 'sz8', 'sz9', 'szl', 'szm', 'szs', 'szxl', 't2', 't25', 't3', 't3i', 't4', 't5', 't5i', 't6', 'ta', 'tab', 'tabby', 'tabitha', 'table', 'tablecloth', 'tablet', 'tabletop', 'tablets', 'taboo', 'tabs', 'tac', 'tack', 'tackle', 'taco', 'tacos', 'tactical', 'tae', 'taffeta', 'taffy', 'tag', 'tagless', 'tags', 'tahari', 'tahiti', 'tahitian', 'tai', 'tail', 'tailored', 'tails', 'tailwind', 'taiyaki', 'take', 'taken', 'takeout', 'taking', 'takis', 'talbots', 'talc', 'tale', 'tales', 'talk', 'talkie', 'talkies', 'talking', 'tall', 'talla', 'tamagotchi', 'tame', 'tamer', 'tami', 'tammy', 'tampa', 'tampax', 'tampon', 'tampons', 'tan', 'tang', 'tangerine', 'tangle', 'tangled', 'tango', 'tanjun', 'tank', 'tanker', 'tankini', 'tanks', 'tanktop', 'tanktops', 'tanner', 'tanning', 'tanya', 'tanzanite', 'tap', 'tape', 'taper', 'tapered', 'tapers', 'tapes', 'tapestries', 'tapestry', 'tapout', 'tapu', 'tar', 'tara', 'tarantino', 'tardis', 'targaryen', 'target', 'targeting', 'targus', 'tarheels', 'tarina', 'tarot', 'tart', 'tartan', 'tarte', 'tarteguard', 'tarteist', 'tartelette', 'tartiest', 'tartlette', 'tarts', 'taryn', 'tarzan', 'taser', 'tasha', 'taskmaster', 'tassel', 'tassels', 'tassle', 'taste', 'tasty', 'tata', 'tatami', 'tatcha', 'tate', 'tatoo', 'tattoo', 'tattooed', 'tattoos', 'taupe', 'taurus', 'tavas', 'tavy', 'tawny', 'tax', 'taxco', 'taxi', 'taylor', 'taylormade', 'taylors', 'taz', 'tazer', 'tb', 'tc', 'tc2', 'tcg', 'tch', 'tcp', 'td', 'tea', 'teach', 'teacher', 'teaching', 'teacup', 'teakwood', 'teal', 'tealight', 'team', 'teami', 'teapot', 'tear', 'teardrop', 'tears', 'teas', 'tease', 'teaspoon', 'teatox', 'teavana', 'tebow', 'tec', 'tech', 'tech21', 'techfit', 'technica', 'technique', 'techniques', 'techno', 'tecmo', 'ted', 'teddies', 'teddy', 'tee', 'teeki', 'teen', 'teenage', 'teenie', 'teens', 'teeny', 'teepee', 'tees', 'teeshirt', 'teeth', 'teether', 'teething', 'teezer', 'teigen', 'teint', 'tek', 'tekken', 'tela', 'telephone', 'telescope', 'telescopic', 'teletubbies', 'television', 'tell', 'teller', 'telltale', 'temp', 'temper', 'temperature', 'tempered', 'temple', 'tempo', 'temporary', 'temptation', 'temptations', 'temptu', 'ten', 'tena', 'tender', 'tendre', 'tenis', 'tenkaichi', 'tennessee', 'tenney', 'tennis', 'tens', 'tense', 'tent', 'tequila', 'teresa', 'terminator', 'terra', 'terrarium', 'terre', 'terri', 'terrier', 'terror', 'terry', 'tervis', 'teryx', 'tessa', 'test', 'tested', 'tester', 'testers', 'testing', 'tests', 'tetra', 'tetris', 'teva', 'tevas', 'tex', 'texans', 'texas', 'text', 'textbook', 'textbooks', 'texting', 'texture', 'textured', 'texturizing', 'tf', 'tg', 'th', 'thai', 'than', 'thank', 'thankful', 'thanks', 'thanksgiving', 'thanos', 'that', 'the', 'thea', 'theas', 'theater', 'thebalm', 'theft', 'them', 'theme', 'themed', 'then', 'theory', 'therapeutic', 'therapy', 'there', 'theresa', 'therma', 'thermafit', 'thermal', 'thermals', 'thermo', 'thermoball', 'thermofit', 'thermometer', 'thermos', 'thermostat', 'these', 'theta', 'they', 'thick', 'thickening', 'thief', 'thierry', 'thieves', 'thigh', 'thighs', 'thin', 'thing', 'things', 'think', 'thinking', 'thinkpad', 'thinsulate', 'thinx', 'third', 'thirsties', 'thirsty', 'thirstymud', 'thirteen', 'thirty', 'thirtyone', 'this', 'thomas', 'thompson', 'thong', 'thongs', 'thor', 'thora', 'thousand', 'thrasher', 'thread', 'threads', 'three', 'threshold', 'thrift', 'thriller', 'thrive', 'thrones', 'through', 'throw', 'throwback', 'throwing', 'throws', 'thru', 'thug', 'thumb', 'thumbs', 'thumbstick', 'thumper', 'thunder', 'thunderbolt', 'thund

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e', 'viviscal', 'vivitar', 'vivo', 'vivoactive', 'vivofit', 'vix', 'vixen', 'vizio', 'vlampo', 'vlone', 'vnds', 'vneck', 'vnecks', 'vntg', 'vocal', 'vodi', 'vodka', 'vogue', 'voice', 'voile', 'vol', 'volatile', 'volcanic', 'volcanion', 'volcano', 'volcom', 'volkswagen', 'volleyball', 'voloom', 'vols', 'volt', 'voltage', 'voltron', 'volu', 'volume', 'volumes', 'voluminous', 'volumizer', 'volumizing', 'volunteers', 'voluspa', 'vomero', 'von', 'voodoo', 'voorhees', 'vornado', 'vortex', 'voss', 'vote', 'votive', 'votives', 'voyage', 'voyager', 'vr', 'vs', 'vslover', 'vspink', 'vsx', 'vt', 'vtech', 'vtg', 'vue', 'vuitton', 'vulture', 'vv', 'vw', 'w10', 'w28', 'w30', 'w6', 'w7', 'w8', 'w9', 'wacky', 'wacoal', 'wacom', 'wade', 'waffle', 'waffles', 'wagner', 'wagon', 'wahl', 'waikiki', 'wair', 'waist', 'waistband', 'waisted', 'wait', 'waitress', 'wakami', 'wake', 'waker', 'wal', 'waldo', 'walgreen', 'walgreens', 'walk', 'walker', 'walkie', 'walking', 'walkman', 'walks', 'wall', 'wallabee', 'wallabees', 'wallace', 'wallet', 'wallets', 'wallflower', 'wallflowers', 'walls', 'wally', 'walmart', 'walrus', 'walsh', 'walt', 'walter', 'wan', 'wand', 'wanda', 'wander', 'wanderer', 'wanderlust', 'wands', 'wang', 'wanna', 'want', 'wanted', 'wants', 'war', 'warby', 'warcraft', 'ward', 'wardrobe', 'ware', 'warfare', 'warhammer', 'warhol', 'wario', 'warm', 'warmer', 'warmers', 'warmest', 'warmth', 'warmup', 'warner', 'warners', 'warning', 'warp', 'warped', 'warranty', 'warren', 'warrior', 'warriors', 'wars', 'was', 'wash', 'washable', 'washcloth', 'washcloths', 'washed', 'washer', 'washes', 'washi', 'washing', 'washington', 'waste', 'wasted', 'watch', 'watchdogs', 'watchers', 'watches', 'watchmen', 'water', 'waterbottle', 'watercolor', 'waterfall', 'waterford', 'watermelon', 'waterpik', 'waterpipe', 'waterproof', 'waters', 'watkins', 'watson', 'watt', 'watts', 'wave', 'wavebird', 'waver', 'waverly', 'waves', 'wavy', 'wax', 'waxing', 'way', 'wayfarer', 'wayfarers', 'wayne', 'ways', 'wazowski', 'wc', 'wcw', 'wd', 'wdw', 'we', 'weapon', 'wear', 'wearable', 'wearing', 'weather', 'weatherproof', 'weave', 'weaver', 'weaving', 'web', 'webber', 'webcam', 'webkinz', 'webs', 'wed', 'wedding', 'wedge', 'wedged', 'wedges', 'wednesday', 'wee', 'weed', 'weeds', 'week', 'weekend', 'weekender', 'weekly', 'weeknd', 'weeks', 'wees', 'weight', 'weighted', 'weightless', 'weights', 'weird', 'weirdo', 'weitzman', 'welcome', 'well', 'wella', 'wellesley', 'wellie', 'wellies', 'wellington', 'wellness', 'wells', 'welly', 'wen', 'wendy', 'wentz', 'were', 'werewolf', 'wesson', 'west', 'westbrook', 'western', 'wet', 'wetnwild', 'wetseal', 'wetsuit', 'wgp', 'wh', 'whale', 'whales', 'what', 'whatever', 'whbm', 'wheat', 'wheel', 'wheelie', 'wheels', 'when', 'where', 'whey', 'whiffs', 'while', 'whimsical', 'whip', 'whipped', 'whirl', 'whish', 'whisk', 'whiskey', 'whisper', 'whispie', 'whispy', 'whistle', 'whit', 'white', 'whitener', 'whitening', 'whiter', 'whitestrips', 'whiting', 'whitney', 'who', 'whole', 'wholesale', 'wht', 'why', 'wi', 'wicca', 'wiccan', 'wick', 'wicked', 'wicker', 'wicks', 'wide', 'widescreen', 'widow', 'widowmaker', 'width', 'wiener', 'wife', 'wifey', 'wifi', 'wig', 'wigs', 'wii', 'wiiu', 'wild', 'wildcats', 'wildflower', 'wildfox', 'wildlands', 'will', 'willa', 'william', 'williams', 'willie', 'willis', 'willow', 'willy', 'wilson', 'wilsons', 'wilton', 'wimpy', 'win', 'winchester', 'wind', 'windbreak', 'windbreaker', 'winder', 'windmill', 'window', 'windows', 'windproof', 'windrunner', 'windshield', 'windsor', 'windu', 'windwaker', 'wine', 'wing', 'winged', 'wings', 'wingtip', 'wink', 'winky', 'winner', 'winnie', 'winston', 'winter', 'winterberry', 'wipe', 'wipeout', 'wipes', 'wire', 'wired', 'wireless', 'wires', 'wirless', 'wisconsin', 'wisdom', 'wise', 'wish', 'wishbone', 'wisher', 'wishers', 'wishes', 'wishful', 'wishing', 'wisp', 'wispie', 'wispies', 'wispy', 'wit', 'witch', 'witchcraft', 'witcher', 'witches', 'with', 'within', 'without', 'witness', 'witten', 'wiz', 'wizard', 'wizards', 'wknd', 'wm', 'wmn', 'wmns', 'wms', 'wnw', 'wo', 'wobble', 'woc', 'woke', 'wolf', 'wolverine', 'wolverines', 'wolves', 'wom', 'woman', 'womans', 'women', 'womens', 'won', 'wonder', 'wonderberry', 'wonderful', 'wonderland', 'wonders', 'wonderstruck', 'wonderwink', 'wonka', 'woo', 'wood', 'wooden', 'woodland', 'woods', 'woodside', 'woodson', 'woodstock', 'woody', 'woodzeez', 'woof', 'wool', 'woolrich', 'word', 'words', 'wore', 'work', 'work

book', 'worker', 'working', 'workout', 'workouts', 'works', 'workshop', 'workwear', 'world', 'worlds', 'worm', 'worn', 'worth', 'worthington', 'would', 'wounded', 'woven', 'wow', 'wp', 'wr', 'wrangler', 'wranglers', 'wrap', 'wrapped', 'wrapper', 'wrapping', 'wraps', 'wrath', 'wreath', 'wreaths', 'wreck', 'wrench', 'wrestlemania', 'wrestler', 'wrestlers', 'wrestling', 'wright', 'wrinkle', 'wrinkles', 'wrislet', 'wrist', 'wristband', 'wristbands', 'wristlet', 'wristlets', 'wristwatch', 'write', 'writer', 'writers', 'writing', 'wrong', 'wrought', 'ws', 'wsp', 'wt', 'wu', 'wubbanub', 'wuc', 'wunder', 'wunder2', 'wunderbrow', 'wunderunder', 'wup', 'wutang', 'wvu', 'ww', 'ww2', 'wwe', 'wwf', 'wwii', 'wylie', 'x1', 'x10', 'x11', 'x12', 'x13', 'x15', 'x2', 'x3', 'x32', 'x4', 'x5', 'x6', 'x7', 'x8', 'x9', 'xb1', 'xbox', 'xbox1', 'xbox360', 'xboxone', 'xd', 'xen', 'xenoverse', 'xerneas', 'xersion', 'xhilaration', 'xhileration', 'xhiliration', 'xi', 'xii', 'xiii', 'xiv', 'xl', 'xlarge', 'xlg', 'xlt', 'xm', 'xmas', 'xmen', 'xo', 'xoxo', 'xp', 'xperia', 'xr1', 'xs', 'xsm', 'xsmall', 'xt', 'xtra', 'xtreme', 'xv', 'xx', 'xxi', 'xxl', 'xxs', 'xxsmall', 'xxx', 'xxxl', 'xy', 'xyron', 'xyz', 'ya', 'yacht', 'yaki', 'yale', 'yamaha', 'yang', 'yankee', 'yankees', 'yaoi', 'yara', 'yard', 'yards', 'yarn', 'yarns', 'yasmin', 'yass', 'yasss', 'yc', 'year', 'years', 'yeezus', 'yeezy', 'yeezys', 'yellow', 'yes', 'yesenia', 'yet', 'yeti', 'yg', 'yin', 'ying', 'yl', 'ylg', 'ym', 'ymd', 'ymi', 'ynwa', 'yo', 'yoda', 'yoga', 'yogas', 'yogi', 'yogini', 'yogurt', 'yokai', 'yolanda', 'yolo', 'yondu', 'york', 'yosemite', 'yoshi', 'yoshis', 'yosi', 'you', 'young', 'youngland', 'younique', 'your', 'yours', 'yourself', 'youth', 'youthmud', 'youtube', 'yr', 'yrs', 'yru', 'ys', 'ysl', 'ysm', 'yth', 'yu', 'yugioh', 'yum', 'yummibear', 'yummie', 'yummy', 'yurbuds', 'yuri', 'yurman', 'yuzu', 'yves', 'yvonne', 'yxl', 'yzy', 'zac', 'zach', 'zaful', 'zag', 'zagg', 'zales', 'zanotti', 'zapdos', 'zapper', 'zara', 'zayn', 'zebra', 'zeeland', 'zeep', 'zelda', 'zella', 'zen', 'zena', 'zenana', 'zeppelin', 'zero', 'zeroxposur', 'zest', 'zeta', 'zig', 'ziggy', 'zigi', 'zigzag', 'zim', 'zinc', 'zine', 'zings', 'zink', 'zip', 'zipadee', 'ziploc', 'zipped', 'zipper', 'zippered', 'zippers', 'zippo', 'zippy', 'zipup', 'zircon', 'zirconia', 'zmax', 'zo', 'zodiac', 'zoe', 'zoeva', 'zoey', 'zombie', 'zombies', 'zone', 'zoo', 'zoom', 'zoomer', 'zootopia', 'zoya', 'zpalette', 'zte', 'zumba', 'zumies', 'zumiez', 'zuni', 'zur', 'zutano', 'zx']
===
==========================

In [123]:

```python
vectorizer = CountVectorizer(min_df=10)
vectorizer.fit(df_train['name'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
submission_name2 = vectorizer.transform(test2['name'].values)


print("After vectorizations")
print(submission_name2.shape)


print(vectorizer.get_feature_names())
print("="*100)
```

After vectorizations
(3460725, 15929)
['00', '000', '001', '002', '003', '007', '007taz', '00g', '01', '02', '03', '04', '043', '045', '05', '06', '07', '08', '09', '0g', '0oz', '0r', '0s', '0x', '10', '100', '1000', '1001', '100ct', '100g', '100ml', '100pcs', '101', '102', '103', '104', '105', '106', '107', '108', '1080', '1080p', '109', '10c', '10ft', '10g', '10k', '10kt', '10lbs', '10m', '10ml', '10mm', '10oz', '10pairs', '10pc', '10pcs', '10pk', '10r', '10s', '10th', '10w', '10x', '10x13', '11', '110', '111', '112', '113', '114', '115', '11c', '11m', '11pc', '11r', '11s', '11w', '12', '120', '1200', '120gb', '122', '123', '1234', '124', '125', '127', '128', '128gb', '129', '12c', '12hr', '12k', '12m', '12mm', '12mo', '12month', '12months', '12oz', '12p', '12pc', '12pcs', '12r', '12s', '12th', '12v', '12w', '12x', '12x12', '12x15', '13', '130', '132', '135', '136', '13c', '13in', '13pc', '13s', '13th', '14', '140', '144', '1460', '149', '14g', '14k', '14kt', '14mm', '14oz', '14p', '14s', '14th', '14x17', '15', '150', '1500', '15ml', '15oz', '15pc', '15pcs', '15x', '16', '160', '1600', '160g', '160gb', '162', '168', '16g', '16gb', '16oz', '16pc', '16w', '17', '170', '17oz', '18', '180', '1800', '182', '1837', '18650', '1886', '18g', '18in', '18k', '18kt', '18m', '18mo', '18month', '18months', '18mos', '18mth', '18oz', '18th', '18v', '18w', '18x18', '19', '1909', '1922', '1937', '1940', '1940s', '1941', '1942', '1950', '1950s', '1955', '1957', '1958', '1960', '1960s', '1962', '1964', '1965', '1966', '1967', '1968', '1969', '1970', '1970s', '1971', '1972', '1973', '1974', '1975', '1976', '1977', '1978', '1979', '1980', '1980s', '1981', '1982', '1983', '1984', '1985', '1986', '1987', '1988', '1989', '199', '1990', '1990s', '1991', '1992', '1993', '1994', '1995', '1996', '1997', '1998', '1999', '19th', '1b', '1c', '1cm', '1ct', '1d', '1day', '1daysale', '1fl', '1g', '1gb', '1hr', '1lb', '1m', '1ml', '1oz', '1pc', '1pcs', '1pr', '1r', '1s', '1st', '1tb', '1x', '1xl', '1y', '20', '200', '2000', '2001', '2002', '2003', '2004', '2005', '2006', '2007', '2008', '2009', '200mm', '201', '2010', '2011', '2012', '2013', '2014', '2015', '2016', '2017', '2018', '2019', '202', '205', '207', '208', '209', '2099', '20g', '20gb', '20in', '20ml', '20oz', '20pc', '20pcs', '20pk', '20th', '20v', '20w', '20x', '21', '210', '211', '212', '213', '216', '218', '21st', '22', '220', '2200', '221', '222', '223', '224', '22g', '22oz', '22w', '23', '230', '24', '240', '24h', '24hr', '24in', '24k', '24m', '24mo', '24month', '24months', '24mos', '24oz', '24pcs', '24w', '25', '250', '2500', '250gb', '252', '256', '256gb', '25a', '25b', '25ml', '25mm', '25oz', '25th', '25x', '26', '260', '2600', '26r', '27', '27r', '28', '28r', '28w', '28x30', '29', '299', '29r', '29x30', '29x31', '29x32', '2b', '2beanie', '2c', '2ct', '2d', '2day', '2ds', '2fl', '2for', '2g', '2gb', '2hr', '2in1', '2k', '2k13', '2k14', '2k15', '2k16', '2k17', '2l', '2lb', '2m', '2ml', '2mm', '2n1', '2nd', '2oz', '2p', '2pac', '2pack', '2packs', '2pair', '2pairs', '2pc', '2pcs', '2piece', '2pk', '2pr', '2s', '2sets', '2t', '2tb', '2tone', '2x', '2x3', '2xl', '2xlarge', '2xself', '2y', '30', '300', '3000', '3000mah', '3001', '300mm', '3025', '30a', '30ct', '30g', '30gb', '30ml', '30oz', '30pin', '30th', '30x', '30x30', '30x32', '31', '310', '31x32', '32', '320', '32a', '32aa', '32b', '32c', '32d', '32dd', '32ddd', '32ft', '32g', '32gb', '32l', '32mm', '32oz', '32pcs', '32x30', '32x32', '32x34', '33', '33x30', '33x32', '34', '340', '3447', '34a', '34b', '34c', '34d', '34dd', '34ddd', '34g', '34w', '34x30', '34x32', '34x34', '35', '350', '350m', '350s', '35b', '35f', '35g', '35k', '35mm', '35n', '35o', '35om', '35os', '35p', '35s', '35t', '35th', '35w', '36', '360', '365', '36a', '36b', '36c', '36d', '36dd', '36ddd', '36oz', '36x30', '36x32', '36x34', '37', '37mm', '38', '38b', '38c', '38d', '38dd', '38ddd', '38mm', '38x30', '38x32', '38x34', '39', '3c', '3ct', '3d', '3ds', '3dsxl', '3ft', '3g', '3gs', '3in1', '3l', '3m', '3ml', '3mm', '3mo', '3month', '3months', '3mos', '3oz', '3pack', '3pair', '3pairs', '3pc', '3pcs', '3piece', '3pk', '3po', '3pr', '3r', '3rd', '3s', '3t', '3x', '3x5', '3xl', '3xlt', '3y', '40', '400', '4000', '401', '402', '403', '404', '40b', '40c', '40d', '40dd', '40ddd', '40th', '40x32', '41', '42', '420', '42c', '42d', '42dd', '42ddd', '4

2mm', '43', '44', '441', '442', '443', '444', '44c', '44d', '44dd', '44ddd', '45', '450', '45w', '46', '46c', '46ddd', '47', '471', '472', '473', '475', '48', '49', '49er', '49ers', '4c', '4cm', '4ct', '4fl', '4g', '4gb', '4ghz', '4in1', '4k', '4ml', '4mm', '4moms', '4oz', '4p', '4pack', '4pair', '4pc', '4pcs', '4pk', '4r', '4s', '4t', '4tb', '4th', '4x', '4x4', '4x5', '4x6', '4x8', '4xl', '4y', '50', '500', '5000', '500gb', '501', '502', '503', '505', '50ct', '50ft', '50ml', '50mm', '50pcs', '50th', '50x', '51', '510', '511', '512', '513', '514', '515', '518', '52', '524', '527', '53', '530', '535', '54', '55', '550', '559', '55mm', '56', '564', '567', '569', '57', '574', '58', '58mm', '59', '59fifty', '5b', '5c', '5d', '5fl', '5ft', '5g', '5in', '5l', '5lb', '5m', '5ml', '5mm', '5oz', '5pairs', '5pc', '5pcs', '5pk', '5prs', '5r', '5s', '5se', '5sos', '5star', '5t', '5th', '5us', '5w', '5x', '5x10', '5x12', '5x19', '5x7', '5x8', '5xl', '5y', '60', '600', '6000', '60g', '60ml', '60s', '60th', '60w', '61', '613', '614', '62', '620', '626', '626s', '63', '64', '64g', '64gb', '65', '650', '66', '660', '67', '675', '68', '69', '69oz', '6b', '6bras', '6c', '6ft', '6g', '6gb', '6in', '6m', '6mm', '6mo', '6month', '6months', '6oz', '6p', '6pack', '6pc', '6pcs', '6pk', '6plus', '6r', '6s', '6splus', '6t', '6th', '6w', '6x', '6x10', '6x9', '6xl', '6y', '70', '700', '7000', '70s', '71', '710', '714', '72', '73', '74', '75', '750', '75ml', '76', '760', '77', '777', '78', '79', '7b', '7c', '7fl', '7in', '7m', '7ml', '7mm', '7oz', '7pc', '7pcs', '7plus', '7r', '7s', '7t', '7th', '7w', '7x', '7y', '80', '800', '80gb', '80s', '81', '82', '83', '84', '85', '850', '85w', '86', '87', '88', '8800', '89', '8b', '8c', '8g', '8gb', '8l', '8m', '8mm', '8oz', '8pc', '8pcs', '8r', '8s', '8t', '8th', '8w', '8x', '8x10', '8y', '90', '900', '9000', '901', '90210', '90s', '91', '910', '911', '913', '92', '925', '925silver', '925ss', '93', '9300hailey', '94', '95', '950', '951', '96', '960', '97', '98', '99', '990', '999', '9b', '9c', '9h', '9in', '9k', '9m', '9ml', '9mm', '9mo', '9month', '9months', '9oz', '9pc', '9s', '9t', '9w', '9x12', 'a1', 'a1181', 'a2', 'a40', 'a5', 'a50', 'a5100', 'aa', 'aaa', 'aaliyah', 'aaron', 'ab', 'abalone', 'abaya', 'abbey', 'abbie', 'abby', 'abc', 'abdominal', 'abercombie', 'abercrombie', 'abh', 'abigail', 'able', 'abominable', 'about', 'above', 'abraham', 'abs', 'absolu', 'absolue', 'absolute', 'absolutely', 'abstract', 'abu', 'abundance', 'ac', 'acacia', 'academia', 'academic', 'academy', 'acai', 'acc', 'accelerator', 'accent', 'accents', 'accesories', 'access', 'accessorie', 'accessories', 'accessory', 'accordion', 'accu', 'acdc', 'ace', 'acer', 'acg', 'acid', 'acme', 'acne', 'aconcagua', 'acorn', 'acoustic', 'acqua', 'acrylic', 'act', 'action', 'activated', 'activating', 'activation', 'activator', 'active', 'activewear', 'activity', 'actual', 'acu', 'acute', 'acuvue', 'ad', 'ada', 'adair', 'adam', 'adams', 'adapt', 'adapter', 'adapters', 'adaptor', 'add', 'added', 'addias', 'addict', 'addicted', 'addiction', 'addidas', 'addie', 'addison', 'addition', 'additional', 'address', 'addy', 'adele', 'adeline', 'aden', 'adesse', 'adhd', 'adhesive', 'adi', 'adida', 'adidas', 'adidias', 'adidog', 'adie', 'adilette', 'adirondack', 'adizero', 'adj', 'adjust', 'adjustable', 'adjusting', 'admiral', 'adorable', 'adore', 'adrenaline', 'adrian', 'adriana', 'adrianna', 'adriano', 'adrienne', 'adt', 'adult', 'adults', 'adv', 'advance', 'advanced', 'advantage', 'advantix', 'advent', 'adventure', 'adventures', 'advisory', 'advocare', 'ae', 'aeo', 'aerie', 'aerin', 'aero', 'aeropostal', 'aeropostale', 'aeropostle', 'aerosmith', 'aerosoles', 'aesthetic', 'af', 'af1', 'affair', 'affection', 'affliction', 'africa', 'african', 'afro', 'after', 'afterdark', 'afterglow', 'ag', 'agaci', 'again', 'against', 'agate', 'agave', 'agd', 'age', 'ageless', 'agenda', 'agent', 'ages', 'aggies', 'agility', 'aging', 'agnes', 'ags', 'aguilar', 'aha', 'ahh', 'ahhh', 'ahhhsugarsugar', 'ahs', 'ai', 'aid', 'aiden', 'aigner', 'aikman', 'aiko', 'aim', 'aimee', 'ain', 'aio', 'air', 'airbag', 'airbrush', 'airbuki', 'airflash', 'airforce', 'airmax', 'airplane', 'airplanes', 'airpods', 'airport', 'airsoft', 'airspun', 'airwalk', 'airwick', 'aj', 'ak', 'aka', 'akai', 'akg', 'akira', 'akoo', 'akoya', 'al', 'alabama', 'aladdin', 'alakazam', 'alan', 'alana', 'alarm', 'alaska', 'alba', 'albert', 'albion', 'album', 'albums', 'alcatel', 'alchemist', 'alcohol', 'alcon

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r', 'cutters', 'cutting', 'cuttings', 'cvs', 'cw', 'cx', 'cyan', 'cyber', 'cybershot', 'cyborg', 'cycle', 'cycling', 'cyclone', 'cyclops', 'cyndi', 'cynthia', 'cypress', 'cyrus', 'cz', 'd2', 'd3', 'd3200', 'd3300', 'd5', 'da', 'dab', 'dachshund', 'dad', 'daddy', 'dads', 'daenerys', 'daffy', 'dagger', 'daggers', 'dahlia', 'dailies', 'daily', 'dainty', 'daisies', 'daiso', 'daisy', 'dak', 'dakine', 'dakota', 'dale', 'dallas', 'dalmatian', 'dalmatians', 'damage', 'damaged', 'damask', 'dame', 'damian', 'damier', 'damn', 'damned', 'damsel', 'dan', 'dana', 'dance', 'dancer', 'dancing', 'dandelion', 'dandelions', 'dane', 'danger', 'dangerous', 'dangle', 'dangles', 'dangling', 'dangly', 'dani', 'daniel', 'daniela', 'daniella', 'danielle', 'danielles', 'daniels', 'danny', 'danskin', 'dansko', 'danskos', 'daphne', 'dar', 'darby', 'darci', 'darcy', 'dare', 'daredevil', 'daring', 'dark', 'darker', 'darkest', 'darkness', 'darkrai', 'darla', 'darlene', 'darlin', 'darling', 'dart', 'darth', 'darts', 'daryl', 'dash', 'dashboard', 'dashiki', 'dat', 'data', 'date', 'datejust', 'daughter', 'dave', 'david', 'davidoff', 'davids', 'davidson', 'davines', 'davis', 'davison', 'dawn', 'dawson', 'daxter', 'day', 'daydream', 'daydreamer', 'daylight', 'daypack', 'days', 'daytona', 'daytrip', 'daywear', 'daze', 'dazzle', 'dazzleglass', 'dazzling', 'db', 'dbl', 'dbz', 'dc', 'dd', 'ddd', 'ddr', 'ddr3', 'ddr4', 'dds', 'de', 'dead', 'deadly', 'deadpool', 'deadshot', 'deadstock', 'deal', 'deals', 'dean', 'deanna', 'dear', 'death', 'deathadder', 'deathly', 'deauville', 'deb', 'debbie', 'deborah', 'debra', 'debut', 'dec', 'decadence', 'decaf', 'decal', 'decals', 'decanter', 'decay', 'december', 'deception', 'deck', 'decker', 'decks', 'deco', 'decor', 'decorate', 'decorating', 'decoration', 'decorations', 'decorative', 'decree', 'dee', 'deedee', 'deep', 'deeply', 'deer', 'deere', 'def', 'defect', 'defected', 'defective', 'defend', 'defender', 'defense', 'defiant', 'define', 'defined', 'definer', 'defining', 'definition', 'definitive', 'defy', 'defying', 'degree', 'degrees', 'dehydrator', 'del', 'delaney', 'delarge', 'deleting', 'delia', 'delias', 'delicate', 'delicious', 'delight', 'delightful', 'delights', 'delish', 'delivery', 'dell', 'delta', 'deluxe', 'demarini', 'demi', 'demin', 'demogorgon', 'demon', 'demonia', 'denali', 'denim', 'denise', 'denizen', 'dennis', 'denona', 'dental', 'denver', 'deo', 'deodorant', 'deodorants', 'department', 'deposit', 'depot', 'depp', 'depression', 'dept', 'derby', 'derek', 'derm', 'derma', 'dermablend', 'dermabrasion', 'dermacol', 'dermadoctor', 'dermal', 'dermalogica', 'dermaroller', 'derrick', 'des', 'desc', 'descendants', 'descrip', 'descript', 'description', 'desert', 'deshedding', 'desi', 'design', 'designed', 'designer', 'designs', 'desigual', 'desire', 'desiree', 'desk', 'deskjet', 'desktop', 'deslick', 'despicable', 'dessert', 'destash', 'destination', 'destiny', 'destroy', 'destroyed', 'destroyer', 'destructed', 'destruction', 'detachable', 'detail', 'detailed', 'detailing', 'details', 'detangler', 'detangling', 'detective', 'detector', 'detergent', 'detox', 'detoxifying', 'detroit', 'deuce', 'deva', 'devacurl', 'development', 'device', 'devices', 'devil', 'devils', 'devin', 'devon', 'devoted', 'devotional', 'devour', 'dew', 'dewalt', 'dewy', 'dexcom', 'dexflex', 'dexter', 'dez', 'df', 'dft', 'dg', 'dgk', 'di', 'dia', 'diabetic', 'diablo', 'dial', 'diamante', 'diamond', 'diamondbacks', 'diamonds', 'diamonique', 'diana', 'diane', 'diaper', 'diapers', 'diaries', 'diary', 'diaz', 'diba', 'dice', 'dick', 'dickie', 'dickies', 'dictionary', 'did', 'diddy', 'die', 'diecast', 'diego', 'diem', 'dies', 'diesel', 'diet', 'dietary', 'diff', 'difference', 'different', 'differin', 'diffuser', 'diffusers', 'digger', 'digi', 'digimon', 'digital', 'digitizer', 'dillard', 'dillon', 'dim', 'dime', 'dimension', 'dimensional', 'dimensions', 'dimes', 'dingo', 'dining', 'dinner', 'dinnerware', 'dino', 'dinos', 'dinosaur', 'dinosaurs', 'dinotrux', 'dion', 'dior', 'diorshow', 'diorskin', 'dip', 'dipbrow', 'dipped', 'dipper', 'diptyque', 'dira', 'direct', 'direction', 'directions', 'director', 'dirt', 'dirty', 'disc', 'disco', 'discontinued', 'discount', 'discounted', 'discover', 'discovery', 'discreet', 'discs', 'disguise', 'dish', 'dishes', 'dishonored', 'dishwasher', 'disk', 'disks', 'disney', 'disneyland', 'disneys', 'dispenser', 'dispensers', 'display', 'displays', 'disposable', 'distance', 'distortion', 'distress', 'distressed', 'di

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'hero', 'heroes', 'heroine', 'heros', 'herrera', 'herringbone', 'hers', 'herschel', 'hershel', 'hershey', 'herstyler', 'herve', 'hesi', 'hess', 'hetalia', 'heuer', 'heusen', 'hex', 'hexagon', 'hey', 'hg', 'hi', 'hibiscus', 'hicks', 'hidden', 'hide', 'hideaway', 'hidrocor', 'high', 'highchair', 'higher', 'highest', 'highland', 'highlight', 'highlighter', 'highlighters', 'highlighting', 'highlights', 'highly', 'highneck', 'highrise', 'highs', 'hight', 'hightimes', 'hightop', 'hightops', 'highwaist', 'highwaisted', 'highway', 'hikari', 'hiking', 'hilfiger', 'hilighter', 'hill', 'hillary', 'hills', 'hilo', 'hilton', 'him', 'himalayan', 'hinge', 'hinged', 'hip', 'hiphop', 'hiphugger', 'hippie', 'hippo', 'hippy', 'hips', 'hipster', 'hipsters', 'his', 'history', 'hit', 'hitachi', 'hitman', 'hits', 'hitter', 'hk', 'hl', 'hm', 'ho', 'hobbit', 'hobby', 'hobnail', 'hobo', 'hockey', 'hocking', 'hocus', 'hoddie', 'hof', 'hoffman', 'hogan', 'hogs', 'hogwarts', 'hoka', 'holbrook', 'hold', 'hold4', 'holder', 'holders', 'holding', 'holds', 'hole', 'holes', 'holiday', 'holidays', 'holika', 'holister', 'holland', 'holliday', 'hollister', 'hollow', 'holly', 'hollywood', 'holmes', 'holo', 'hologram', 'holographic', 'holos', 'holster', 'holt', 'holtz', 'holy', 'home', 'homecoming', 'homedics', 'homefront', 'homemade', 'homer', 'homes', 'homestead', 'homestuck', 'homies', 'homme', 'honda', 'honest', 'honey', 'honeycomb', 'honeymoon', 'honeysuckle', 'honeywell', 'hong', 'honolulu', 'honor', 'honora', 'hood', 'hooded', 'hoodi', 'hoodie', 'hoodies', 'hoody', 'hook', 'hookah', 'hooked', 'hooks', 'hoola', 'hoop', 'hoops', 'hooter', 'hooters', 'hoover', 'hop', 'hope', 'hopkins', 'hoppe', 'hopper', 'hoppy', 'hopscotch', 'horizon', 'horizontal', 'horn', 'hornets', 'horoscope', 'horror', 'horse', 'horseman', 'horses', 'horseshoe', 'horus', 'hose', 'hospital', 'hostess', 'hot', 'hotdog', 'hotel', 'hotfix', 'hoth', 'hotline', 'hotpink', 'hotspot', 'hotter', 'hottie', 'hottopic', 'hotty', 'hotwheel', 'hotwheels', 'hound', 'houndstooth', 'hour', 'hourglass', 'hours', 'house', 'household', 'houses', 'housewives', 'houston', 'hover', 'hoverboard', 'how', 'howard', 'howell', 'howling', 'howlite', 'hp', 'hq', 'hr', 'hrs', 'hrush', 'hs', 'ht', 'htc', 'htf', 'htv', 'huarache', 'huaraches', 'huawei', 'hub', 'hubby', 'hublot', 'huda', 'hudabeauty', 'hudson', 'hue', 'huf', 'huff', 'hufflepuff', 'hug', 'huge', 'hugger', 'huggie', 'huggies', 'hughes', 'hugo', 'hugs', 'huh', 'huk', 'hula', 'hulk', 'hulkbuster', 'hum', 'human', 'humanity', 'humans', 'humble', 'humidifier', 'hummel', 'hummingbird', 'hummingbirds', 'humor', 'hundreds', 'hunger', 'hungry', 'hunt', 'hunter', 'hunters', 'hunting', 'huntress', 'hurache', 'huraches', 'hurley', 'hurrache', 'hurraches', 'hurricane', 'hurricanes', 'hurry', 'husband', 'hush', 'huskers', 'huskies', 'husky', 'hustle', 'hustler', 'hut', 'hw', 'hyaluronic', 'hybrid', 'hydra', 'hydrate', 'hydrating', 'hydration', 'hydrator', 'hydraulic', 'hydro', 'hydroflask', 'hydroxycut', 'hygiene', 'hype', 'hyper', 'hypercool', 'hyperdunk', 'hyperdunks', 'hyperfuse', 'hyperrev', 'hypervenom', 'hyperwarm', 'hypnose', 'hyrule', 'hyvent', 'i3', 'i5', 'i6', 'i6s', 'i7', 'iaso', 'ibd', 'ibeats', 'ibiza', 'ibloom', 'ibrahimovic', 'iby', 'ic', 'icarus', 'ice', 'icecream', 'iced', 'icee', 'iceland', 'icicle', 'icing', 'iclicker', 'icloud', 'icon', 'iconic', 'icons', 'icy', 'id', 'idea', 'ideal', 'identical', 'idol', 'idole', 'if', 'igloo', 'ignite', 'iguana', 'iheartraves', 'ihome', 'ii', 'iii', 'iilovez', 'ijust', 'ikat', 'ikea', 'il', 'illamasqua', 'illicit', 'illinois', 'illuminate', 'illuminated', 'illuminati', 'illuminating', 'illumination', 'illuminator', 'illuminizer', 'illusion', 'im', 'imac', 'image', 'imaginators', 'imagine', 'imaginext', 'iman', 'imei', 'imitation', 'immaculate', 'immortal', 'impact', 'impala', 'imperial', 'impopster', 'imports', 'impossible', 'imposter', 'impress', 'impression', 'impressions', 'in', 'inbox', 'inc', 'incense', 'inch', 'inches', 'incipio', 'incl', 'include', 'included', 'includes', 'including', 'incoco', 'incredible', 'incredibles', 'independence', 'independent', 'india', 'indian', 'indiana', 'indianapolis', 'indians', 'indie', 'indigo', 'individual', 'individuals', 'indoor', 'indulgence', 'industrial', 'industries', 'indy', 'infallible', 'infamous', 'infant', 'infantino', 'infants', 'infared', 'inferno', 'infinim', 'infinite', 'infiniti', 'infinity', 'inflatable', 'info', 'infrared', 'in

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and', 'younique', 'your', 'yours', 'yourself', 'youth', 'youthmud', 'youtu
be', 'yr', 'yrs', 'yru', 'ys', 'ysl', 'ysm', 'yth', 'yu', 'yugioh', 'yum',
'yummibear', 'yummie', 'yummy', 'yurbuds', 'yuri', 'yurman', 'yuzu', 'yve
s', 'yvonne', 'yxl', 'yzy', 'zac', 'zach', 'zaful', 'zag', 'zagg', 'zale
s', 'zanotti', 'zapdos', 'zapper', 'zara', 'zayn', 'zebra', 'zeeland', 'ze
ep', 'zelda', 'zella', 'zen', 'zena', 'zenana', 'zeppelin', 'zero', 'zerox
posur', 'zest', 'zeta', 'zig', 'ziggy', 'zigi', 'zigzag', 'zim', 'zinc',
 'zine', 'zings', 'zink', 'zip', 'zipadee', 'ziploc', 'zipped', 'zipper',
 'zippered', 'zippers', 'zippo', 'zippy', 'zipup', 'zircon', 'zirconia',
 'zmax', 'zo', 'zodiac', 'zoe', 'zoeva', 'zoey', 'zombie', 'zombies', 'zon
e', 'zoo', 'zoom', 'zoomer', 'zootopia', 'zoya', 'zpalette', 'zte', 'zumb
a', 'zumies', 'zumiez', 'zuni', 'zur', 'zutano', 'zx']
===
=========================

Brand Name

In [47]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['brand_name'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
train_brandname = vectorizer.transform(df_train['brand_name'].values)
test_brandname = vectorizer.transform(df_test['brand_name'].values)


print("After vectorizations")
print(train_brandname.shape)
print(test_brandname.shape)

print(vectorizer.get_feature_names())
print("="*100)
```

After vectorizations
(1186028, 4822)
(296507, 4822)
['05', '10', '11', '148', '191', '1960', '1981', '1byone', '1st', '21', '21men', '24', '2b', '2k', '2xu', '3m', '40', '44', '47', '525', '5th', '66', '72', '8732', '90', '925', 'ab', 'abbott', 'abboud', 'abc', 'abercrombie', 'able', 'abs', 'absorber', 'abu', 'ac', 'acacia', 'academy', 'accel', 'accents', 'accessories', 'accessory', 'accutron', 'acdelco', 'acer', 'acne', 'acorn', 'acrobat', 'act', 'active', 'activewear', 'activision', 'actron', 'ad', 'adagio', 'adam', 'adams', 'add', 'addario', 'addison', 'adee', 'aden', 'adidas', 'adler', 'adolfo', 'adonna', 'adora', 'adrianna', 'adriano', 'adrienne', 'advanced', 'advantage', 'advantix', 'advent', 'adventure', 'advil', 'aerie', 'aerin', 'aero', 'aerolatte', 'aeropostale', 'aeropress', 'aerosoles', 'aesthetic', 'affliction', 'ag', 'again', 'against', 'agb', 'ageless', 'agent', 'agetec', 'agfa', 'agraria', 'agua', 'aguadecoco', 'aid', 'aidan', 'aigner', 'aiptek', 'air', 'airwalk', 'aka', 'akademiks', 'akai', 'akira', 'akoo', 'akris', 'alan', 'alba', 'albert', 'alberto', 'aldo', 'alegro', 'alessi', 'alex', 'alexander', 'alexandra', 'alexis', 'alfani', 'alfred', 'algenist', 'ali', 'alia', 'alice', 'alife', 'all', 'allegra', 'allegri', 'allen', 'alliance', 'allison', 'alloy', 'allsaints', 'allure', 'allyn', 'almay', 'almost', 'alo', 'along', 'alpha', 'alpine', 'alpinestars', 'alstyle', 'altamont', 'altar', 'altec', 'alternative', 'altra', 'always', 'alyce', 'alyn', 'alythea', 'amanda', 'amazon', 'amazonbasics', 'ambiance', 'ambrielle', 'amd', 'ameda', 'america', 'american', 'amia', 'amika', 'amoena', 'amphibious', 'amsoil', 'amusement', 'amy', 'anais', 'anastasia', 'anchor', 'and', 'and1', 'anderson', 'andersson', 'andis', 'andrea', 'andrew', 'angel', 'angelcare', 'angeles', 'angelina', 'angelo', 'angels', 'angie', 'angiolini', 'angl', 'angry', 'ani', 'animal', 'animale', 'animated', 'anker', 'ann', 'anna', 'annabelle', 'anne', 'annex', 'anolon', 'anon', 'anthony', 'anthropologie', 'antigua', 'antik', 'antilia', 'antique', 'antlers', 'antonio', 'anvil', 'anxiety', 'ape', 'api', 'apostrophe', 'apparel', 'apple', 'apt', 'aqua', 'aquafresh', 'aquaphor', 'aquarius', 'aquatopia', 'aqueon', 'aram', 'arbonne', 'arc', 'archaic', 'archery', 'archie', 'architect', 'ardell', 'arden', 'argatherapie', 'aria', 'ariana', 'ariat', 'aritzia', 'ariya', 'arizona', 'ark', 'arm', 'armani', 'armor', 'armour', 'army', 'aroma', 'arpels', 'arrid', 'arrivals', 'arrow', 'arrows', 'art', 'artful', 'as', 'ash', 'ashford', 'ashley', 'ashworth', 'asics', 'ask', 'asolo', 'asos', 'aspeed', 'aspen', 'asphalt', 'asser', 'assets', 'assn', 'astr', 'astroglide', 'asus', 'at', 'atari', 'athena', 'athleta', 'athlete', 'athletech', 'athletic', 'athletica', 'athletics', 'ati', 'atlantis', 'atmosphere', 'attends', 'attention', 'attitude', 'au', 'audemars', 'audi', 'audigier', 'audio', 'audiosource', 'audiovox', 'audrey', 'august', 'augusta', 'aura', 'aurora', 'aurum', 'aussie', 'austin', 'australia', 'australian', 'authentic', 'authority', 'autolite', 'automotive', 'ava', 'aveda', 'aveeno', 'avent', 'avenue', 'avery', 'avia', 'avirex', 'avon', 'ax', 'axcess', 'axe', 'azo', 'azria', 'azrouel', 'azules', 'azzaro', 'aéropostale', 'babies', 'babolat', 'baby', 'babybjorn', 'babyganics', 'babyhome', 'bacati', 'bacco', 'bachmann', 'bachrach', 'back', 'bad', 'badescu', 'badger', 'badgley', 'bag', 'bagatelle', 'baggallini', 'bahama', 'bailey', 'baker', 'bakers', 'balance', 'balboa', 'baleaf', 'balenciaga', 'ball', 'bally', 'balm', 'balmain', 'baltex', 'bambo', 'bamboo', 'bamboobies', 'ban', 'banana', 'bananafish', 'band', 'bandai', 'bandit', 'bandolino', 'bandz', 'bang', 'bank', 'banks', 'banzai', 'bape', 'bar', 'baraschi', 'baratza', 'barbasol', 'barbie', 'barbour', 'barcelona', 'bare', 'barefoot', 'bareminerals', 'bari', 'barn', 'barnes', 'barnett', 'barneys', 'barron', 'barrow', 'barry', 'barska', 'barth', 'basic', 'basics', 'basket', 'bass', 'bassett', 'basso', 'bates', 'bath', 'bathing', 'batik', 'batman', 'baublebar', 'bauer', 'bausch', 'bay', 'bayer', 'bb', 'bc', 'bcbg', 'bcbgeneration', 'bcbgirls', 'bcbgmaxazria', 'bcx', 'bdg', 'be', 'beaba', 'beach', 'bean', 'beans', 'bear', 'beard', 'bearpaw', 'beats', 'beauticontrol', 'beautifly', 'beauty', 'beautyblender', 'beautycounter', 'bebe', 'bebesoun

ds', 'bebop', 'becca', 'beckham', 'bed', 'bedhead', 'bee', 'beechnut', 'beene', 'bees', 'begin', 'behavior', 'bejeweled', 'believe', 'belif', 'belkin', 'bell', 'bella', 'bellatrix', 'belldini', 'belle', 'belleek', 'bellissimo', 'belltech', 'belly', 'bematernity', 'ben', 'benard', 'benbasset', 'benbat', 'bench', 'bend', 'bendel', 'bendita', 'benefit', 'beneful', 'benetton', 'bennett', 'bepuzzled', 'berek', 'beretta', 'bergan', 'berger', 'berkley', 'berkshire', 'bernardo', 'berne', 'bernie', 'bernini', 'bershka', 'best', 'bethesda', 'betsey', 'betsy', 'better', 'bettie', 'betty', 'beverly', 'beyond', 'bh', 'bialetti', 'biasia', 'bic', 'bide', 'big', 'bigelow', 'bike', 'bikerwear', 'bikes', 'bikinis', 'bill', 'billabong', 'billionaire', 'billy', 'bini', 'bio', 'biore', 'bioworld', 'bird', 'birds', 'birkenstock', 'bisou', 'bissell', 'bite', 'bits', 'bitten', 'bitton', 'bjorn', 'bke', 'blac', 'black', 'blackhawk', 'blackmilk', 'blahnik', 'blaine', 'blair', 'blakely', 'blanc', 'blanca', 'blank', 'blanknyc', 'blanqi', 'blass', 'blauer', 'blendtec', 'blinc', 'blind', 'blink', 'blip', 'bliss', 'blitz', 'blizzard', 'bloch', 'bloks', 'blondie', 'bloom', 'bloomfield', 'blooming', 'bloomingdale', 'blossom', 'blowfish', 'blu', 'blue', 'blues', 'blunt', 'blush', 'bmw', 'boat', 'bob', 'bobbi', 'bobbie', 'bobeau', 'boden', 'bodum', 'body', 'bogner', 'bogs', 'boho', 'bolle', 'bond', 'bondi', 'bone', 'bongo', 'bonne', 'bonnie', 'bonobos', 'bonworth', 'boo', 'booginhead', 'boohoo', 'books', 'boom', 'boomco', 'boon', 'boop', 'boot', 'boots', 'booty', 'boppy', 'borg', 'borghese', 'born', 'bornfree', 'borrelli', 'bosch', 'boscia', 'bose', 'boss', 'boston', 'bostonian', 'botanicals', 'botkier', 'bottega', 'bottom', 'bottoms', 'boudreauxs', 'boulevard', 'boundaries', 'bourbon', 'bourjois', 'bourke', 'boutique', 'bouwer', 'bowery', 'bowflex', 'bowls', 'bowties', 'box', 'boxercraft', 'boxing', 'boy', 'boys', 'bp', 'bradley', 'braetan', 'brahmin', 'brand', 'brandon', 'brands', 'brandt', 'brandy', 'braun', 'bravado', 'brave', 'brazilroxx', 'breathablebaby', 'breckelles', 'breckenridge', 'breeze', 'breezies', 'breitling', 'brentwood', 'brest', 'bret', 'breville', 'breyer', 'brezza', 'brica', 'bridal', 'bridge', 'bridgestone', 'briggs', 'bright', 'brighton', 'brine', 'briogeo', 'brioni', 'bristol', 'brit', 'brita', 'britax', 'brittany', 'brittar', 'brittney', 'brix', 'brixton', 'broadheads', 'brockum', 'broke', 'brooke', 'brooklyn', 'brooks', 'brookstone', 'bros', 'brother', 'brothers', 'brown', 'browne', 'browning', 'bruder', 'bruno', 'brush', 'brut', 'brute', 'bryant', 'bubble', 'bubblegum', 'bucci', 'buchman', 'buck', 'bucket', 'buckle', 'buckley', 'buddha', 'buddy', 'budge', 'buffalo', 'bug', 'bugaboo', 'buggy', 'bugle', 'bullet', 'bullhead', 'bully', 'bulova', 'bulwark', 'bumble', 'bumbleride', 'bumbo', 'bumgenius', 'bumkins', 'bunn', 'bunny', 'burberry', 'burch', 'burke', 'burlon', 'burnside', 'burt', 'burton', 'bush', 'bushnell', 'but', 'butt', 'butter', 'butterfly', 'buxom', 'buxton', 'bvd', 'bvlgari', 'by', 'byas', 'byer', 'bésame', 'ca', 'cabela', 'cabernet', 'cabi', 'cabin', 'cable', 'cache', 'cachet', 'cacia', 'cacique', 'cactus', 'cafe', 'cake', 'cal', 'calgon', 'cali', 'calia', 'calico', 'california', 'call', 'callaway', 'calphalon', 'calvin', 'calypso', 'cambio', 'cambridge', 'camel', 'camelbak', 'camilia', 'camilla', 'campbell', 'camper', 'campia', 'camuto', 'canada', 'canali', 'candie', 'candle', 'candy', 'cannon', 'canon', 'canterbury', 'canvas', 'canyon', 'capcom', 'capelli', 'capezio', 'capresso', 'caravelli', 'carbon', 'cardin', 'cardinal', 'cards', 'care', 'carefree', 'caress', 'carey', 'cargo', 'carhartt', 'caribbean', 'carle', 'carlos', 'carlson', 'carmen', 'carmex', 'carnival', 'carol', 'carole', 'carolina', 'carolyn', 'carrera', 'carrhart', 'carrie', 'cars', 'carson', 'carter', 'cartier', 'cartoon', 'caruso', 'carven', 'cascade', 'case', 'casio', 'caslon', 'cassandra', 'cassini', 'castell', 'castle', 'castles', 'casual', 'casuals', 'cat', 'catalina', 'caterpillar', 'catherine', 'catherines', 'cathy', 'catit', 'cato', 'cats', 'cattleman', 'caudalie', 'cavalli', 'cavaricci', 'cb', 'cc', 'ccb', 'ccm', 'cdc', 'ceaco', 'cecico', 'celebrity', 'celine', 'cello', 'center', 'central', 'century', 'cepia', 'cerave', 'ceremony', 'cerruti', 'cesar', 'cetaphil', 'cha', 'chaco', 'chadwicks', 'chalk', 'chamilia', 'champion', 'champs', 'chan', 'chanel', 'changes', 'chann', 'channel', 'chantelle', 'chaps', 'chapstick', 'character', 'charle

s', 'charlie', 'charlotte', 'charmin', 'charming', 'charter', 'chaser', 'chaus', 'cheap', 'cheetah', 'chef', 'chelsea', 'chemex', 'chemistry', 'chen', 'chequer', 'cherokee', 'cherry', 'chesley', 'chevrolet', 'chevron', 'chi', 'chic', 'chica', 'chicago', 'chicco', 'chico', 'chief', 'chievous', 'child', 'children', 'childrens', 'childrenswear', 'chillys', 'chilton', 'chin', 'china', 'chinese', 'chip', 'chloe', 'chloé', 'chocolove', 'choice', 'choo', 'chopard', 'choppers', 'christian', 'christina', 'christopher', 'chroma', 'chrome', 'chromo', 'chronicle', 'chuckit', 'ciaté', 'cinch', 'cinema', 'cior', 'circa', 'circle', 'circo', 'circulon', 'circus', 'citizen', 'citizens', 'citron', 'city', 'cj', 'ck', 'clad', 'claiborne', 'claire', 'clairol', 'clarins', 'clarisonic', 'clarisse', 'clark', 'clarks', 'classic', 'classics', 'classiques', 'claudia', 'clay', 'clean', 'clear', 'clearasil', 'cleef', 'cleo', 'cleobella', 'cleveland', 'cliff', 'clinique', 'clio', 'cloth', 'clothing', 'cloud', 'clover', 'club', 'cm', 'co', 'coach', 'coast', 'cobra', 'coby', 'coca', 'cocalo', 'coco', 'cocomo', 'code', 'coe', 'coed', 'coffee', 'cola', 'cold', 'coldwater', 'cole', 'colebrook', 'coleman', 'colgate', 'colin', 'collectibles', 'collection', 'collections', 'collective', 'collector', 'college', 'collezioni', 'colonial', 'color', 'colorado', 'colorbok', 'colors', 'colosseum', 'colourpop', 'colours', 'columbia', 'com', 'combi', 'come', 'comfort', 'comic', 'comics', 'commander', 'comme', 'commonwealth', 'como', 'comotomo', 'company', 'compaq', 'complete', 'comptoir', 'computer', 'conair', 'concept', 'concepts', 'connected', 'connection', 'conrad', 'constant', 'consumer', 'context', 'contigo', 'contours', 'converse', 'coobie', 'coogi', 'cook', 'cookie', 'cooks', 'coola', 'cooler', 'cooper', 'cooperative', 'copco', 'copper', 'coral', 'cordani', 'corelle', 'corinna', 'corner', 'corningware', 'corolle', 'corona', 'corp', 'corral', 'corsair', 'corso', 'cos', 'cosabella', 'cosco', 'cosi', 'cosmetic', 'cosmetics', 'costa', 'costume', 'costumes', 'cotton', 'cottonelle', 'coty', 'coulbourne', 'counterparts', 'country', 'county', 'courtenay', 'couture', 'cover', 'covergirl', 'covington', 'cowgirl', 'cra', 'crabtree', 'craftsman', 'craig', 'crane', 'crayola', 'crazy', 'cream', 'creations', 'creative', 'creativity', 'creature', 'creed', 'creek', 'cremieux', 'crest', 'creuset', 'crew', 'crime', 'critters', 'critterware', 'crocker', 'crocs', 'croft', 'crofton', 'croix', 'crooks', 'croota', 'crosley', 'crosman', 'crossbows', 'crossroads', 'cruel', 'cruiser', 'cruisers', 'cruz', 'crystal', 'cubavera', 'cucina', 'cuddl', 'cuisinart', 'cuisine', 'culture', 'cumberland', 'curel', 'curl', 'current', 'curvation', 'curve', 'curves', 'curvy', 'custo', 'custom', 'customized', 'cutie', 'cutter', 'cutters', 'cw', 'cynthia', 'cyrus', 'céline', 'da', 'daddy', 'dagger', 'dahl', 'dainese', 'daisy', 'dakine', 'dakota', 'daks', 'dale', 'daley', 'dalia', 'dan', 'dana', 'daniel', 'daniels', 'danielson', 'danier', 'danner', 'danny', 'dansk', 'danskin', 'dansko', 'dark', 'darlin', 'darren', 'daughter', 'dave', 'david', 'davidson', 'davis', 'dawgs', 'daytrip', 'dazzle', 'dbx', 'dc', 'dcc', 'de', 'dead', 'deb', 'debbie', 'debeer', 'deborah', 'decay', 'decker', 'deco', 'decolav', 'decree', 'deen', 'deena', 'deep', 'deere', 'degree', 'del', 'deletta', 'delia', 'delight', 'dell', 'delong', 'delonghi', 'delta', 'deltana', 'demarini', 'demdaco', 'denali', 'denim', 'dennis', 'denon', 'denona', 'denso', 'dentek', 'depot', 'derby', 'derek', 'dereon', 'dermablend', 'dermal', 'des', 'descente', 'design', 'designer', 'designs', 'desigual', 'dessy', 'destination', 'deux', 'devacurl', 'devitt', 'devon', 'dewalt', 'dex', 'dexter', 'dgk', 'di', 'diadora', 'dial', 'dials', 'diamond', 'diamonds', 'diane', 'diaper', 'diba', 'dickies', 'diesel', 'diet', 'digest', 'digital', 'diono', 'dior', 'direct', 'directions', 'directv', 'discovery', 'disguise', 'disney', 'distributors', 'district', 'dittos', 'diva', 'divided', 'dji', 'dkny', 'dknyc', 'dl', 'dl1961', 'dockers', 'doctor', 'dodger', 'doe', 'dog', 'dogeared', 'dogs', 'dogswell', 'doh', 'dokie', 'dolce', 'doll', 'dollhouse', 'dollhouses', 'dollie', 'dolphin', 'donald', 'donatella', 'doncaster', 'done', 'dong', 'donna', 'donnybrook', 'doodle', 'dooney', 'dope', 'dora', 'dorby', 'dorel', 'doris', 'dorman', 'dot', 'dots', 'double', 'doug', 'douglas', 'dove', 'down', 'downy', 'dp', 'dr', 'dragon', 'dragonfly', 'drake', 'dre', 'dream', 'dreambaby',

'dreamgear', 'dreamgirl', 'dreams', 'dreamworks', 'dremel', 'dress', 'dressbarn', 'dresses', 'dri', 'drinkwell', 'dripped', 'drive', 'drunk', 'dry', 'drybar', 'dscp', 'dsquared', 'du', 'dubble', 'duck', 'ducks', 'dude', 'duds', 'duggal', 'duluth', 'dumas', 'dunbrooke', 'duncan', 'dunlop', 'dunn', 'dunner', 'duo', 'duracell', 'durango', 'dutch', 'duwop', 'dv', 'dvs', 'dymo', 'dynasty', 'dyson', 'ea', 'each', 'eagle', 'earl', 'earnest', 'ears', 'earth', 'ease', 'easel', 'east', 'eastern', 'eastessence', 'eastland', 'easton', 'easy', 'ecco', 'eci', 'ecko', 'ecote', 'ecotools', 'ed', 'eddie', 'edelbrock', 'edelman', 'edge', 'edit', 'edition', 'editions', 'edmonds', 'edu', 'educational', 'eggs', 'eight', 'eighty', 'eileen', 'einstein', 'ek', 'ektelon', 'elaine', 'elan', 'elba', 'electric', 'electrics', 'electronics', 'elegant', 'element', 'elements', 'elementz', 'elemis', 'elephant', 'elevenses', 'elf', 'elie', 'elite', 'elixir', 'eliza', 'elizabeth', 'elizavecca', 'ella', 'elle', 'ellemenno', 'ellen', 'elliott', 'ellis', 'ellison', 'elm', 'elmers', 'elomi', 'elwood', 'ely', 'emachines', 'emanuel', 'emerald', 'emerica', 'emerson', 'emile', 'emilio', 'emily', 'eminence', 'emma', 'empire', 'emporio', 'emson', 'emu', 'en', 'end', 'endless', 'energie', 'energizer', 'energy', 'enesco', 'enfagrow', 'enfamil', 'engine', 'engineering', 'english', 'enix', 'enjoi', 'ent', 'enterprises', 'entertainment', 'entier', 'enyce', 'enzo', 'eo', 'eos', 'epic', 'epson', 'equipment', 'era', 'eraser', 'ergodyne', 'eric', 'erika', 'ermenegildo', 'ernie', 'escada', 'escante', 'escape', 'escentuals', 'escort', 'eshakti', 'esley', 'especially', 'espn', 'esprit', 'essence', 'essences', 'essential', 'essentials', 'essie', 'estee', 'esteem', 'estes', 'esther', 'estée', 'et', 'etcetera', 'etch', 'ethika', 'etienne', 'etnies', 'etonic', 'etro', 'eucerin', 'euro', 'evan', 'evans', 'eve', 'evelyn', 'evenflo', 'evenings', 'ever', 'everlane', 'everlast', 'everly', 'evga', 'evie', 'evisu', 'evolution', 'evoshield', 'evriholder', 'excalibur', 'excell', 'excelled', 'exchange', 'exergen', 'exersaucer', 'exo', 'exofficio', 'exp', 'expectations', 'expert', 'explorer', 'express', 'expressions', 'exuviance', 'eyeshadow', 'ezekiel', 'faber', 'fabletics', 'fabrizio', 'fabulous', 'face', 'faced', 'factor', 'factory', 'fade', 'faded', 'fagor', 'fair', 'fairway', 'faithfull', 'fal', 'falls', 'fama', 'family', 'famosa', 'famous', 'fanatics', 'fang', 'fantasie', 'fao', 'farberware', 'farm', 'farmacy', 'farsali', 'fascinations', 'fashion', 'fashionomics', 'fashions', 'fast', 'fatal', 'faviana', 'favorites', 'fay', 'fear', 'febreze', 'feet', 'feetures', 'felicity', 'fellowes', 'femme', 'fender', 'fendi', 'fenn', 'ferasali', 'fergalicious', 'fergie', 'ferragamo', 'ferrar', 'ferrari', 'ferre', 'ferrecci', 'fetco', 'fever', 'field', 'fields', 'fiesta', 'fifth', 'fighter', 'figure', 'figures', 'fila', 'filson', 'filter', 'filters', 'filthy', 'fin', 'finders', 'fine', 'finish', 'fioni', 'fiore', 'fiorentini', 'fire', 'first', 'fisher', 'fishing', 'fist', 'fitbit', 'fitch', 'fitness', 'five', 'fizz', 'fjallraven', 'flamingo', 'flax', 'flexees', 'flexi', 'flip', 'flirt', 'flirtitude', 'flite', 'floam', 'float', 'floppy', 'florsheim', 'flow', 'flurt', 'flusser', 'fluval', 'fly', 'flyer', 'flying', 'flynn', 'focus', 'fog', 'foley', 'folkmanis', 'fontaine', 'food', 'foods', 'foot', 'footjoy', 'footwear', 'for', 'force', 'ford', 'forecaster', 'foreign', 'foreman', 'foreo', 'forever', 'forge', 'form', 'forms', 'formula', 'forplay', 'fossil', 'foster', 'foundry', 'four', 'fourstar', 'fox', 'foxcroft', 'fr', 'fragrance', 'frame', 'francesca', 'francesco', 'franco', 'frank', 'frankie', 'franklin', 'frannie', 'fred', 'freddy', 'frederick', 'fredrick', 'free', 'freestyle', 'freeze', 'french', 'fresh', 'freshly', 'freshnes', 'freya', 'frieda', 'friedman', 'friend', 'friends', 'frigidaire', 'friskies', 'frog', 'frogg', 'from', 'frontline', 'frost', 'fruit', 'frye', 'frédérique', 'fubu', 'fuda', 'fuentes', 'fuji', 'fujifilm', 'full', 'fun', 'funimation', 'funko', 'funrise', 'furla', 'furminator', 'furniture', 'furstenberg', 'fusion', 'fx', 'gabbana', 'gabriel', 'gaci', 'gaggia', 'gaiam', 'gain', 'gal', 'galaxy', 'gallery', 'galt', 'game', 'games', 'gamo', 'ganz', 'gap', 'garage', 'garavani', 'garcia', 'garcons', 'garfield', 'garmin', 'garneau', 'garnet', 'garnier', 'gateway', 'gatorade', 'gauge', 'gaultier', 'gdiapers', 'ge', 'gear', 'gearbox', 'geddes', 'geek', 'geiger', 'geller', 'general',

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en', 'maidenform', 'maine', 'mainstreet', 'maison', 'maisto', 'maje', 'majestic', 'makali', 'make', 'makeup', 'makowsky', 'malandrino', 'malibu', 'malley', 'mally', 'mam', 'mama', 'mamaroo', 'mamas', 'mamia', 'mammut', 'man', 'management', 'mandalay', 'mandalynn', 'mandee', 'manduka', 'manga', 'mangano', 'mango', 'manhattan', 'manic', 'mankind', 'manolo', 'manson', 'mar', 'mara', 'maran', 'marant', 'marc', 'marcelo', 'march', 'marciano', 'marco', 'marcus', 'maree', 'margarita', 'margaritaville', 'margiela', 'marie', 'marika', 'marimekko', 'marina', 'marineland', 'marino', 'mario', 'marisa', 'mark', 'market', 'markoff', 'marks', 'marmot', 'marni', 'marsh', 'marshall', 'martens', 'martha', 'martin', 'marucci', 'marvel', 'mary', 'mason', 'masquerade', 'master', 'masters', 'matchbox', 'mate', 'material', 'maternal', 'maternity', 'mathew', 'matix', 'matrix', 'mattel', 'mattox', 'matty', 'maui', 'maurices', 'maverik', 'mavi', 'max', 'maxell', 'maxi', 'maxima', 'maxine', 'maxtor', 'maxwell', 'maxx', 'may', 'maya', 'maybelline', 'mccartney', 'mcclintock', 'mcdavid', 'mcevoy', 'mcfarlane', 'mcguire', 'mckenzie', 'mclaughlin', 'mcm', 'mcnally', 'mcnaughton', 'mcqueen', 'md', 'me', 'mecca', 'mechanix', 'med', 'medela', 'mederma', 'media', 'mediasonic', 'medusa', 'mega', 'mehron', 'mek', 'melani', 'melannco', 'melissa', 'melitta', 'melt', 'melville', 'members', 'meme', 'memorex', 'men', 'meow', 'mephisto', 'mer', 'mercer', 'merchandising', 'mercier', 'merle', 'mermaid', 'merona', 'merrell', 'mesh', 'metal', 'metaphor', 'method', 'metrokane', 'mev', 'meyer', 'mezco', 'mga', 'mgm', 'mia', 'miami', 'michael', 'michaelangelo', 'michaels', 'miche', 'michele', 'michelle', 'michi', 'micro', 'microphones', 'micros', 'microsoft', 'middleton', 'midland', 'midtronics', 'midway', 'midwest', 'mighty', 'mika', 'mikasa', 'mikimoto', 'mikoh', 'milan', 'milani', 'milano', 'miley', 'milk', 'millar', 'millau', 'millen', 'miller', 'mills', 'milly', 'milton', 'mimi', 'mine', 'minecraft', 'mineral', 'minerals', 'mini', 'minimale', 'minkoff', 'minkpink', 'minnetonka', 'minnie', 'miracle', 'miraclesuit', 'mirro', 'mischka', 'misfits', 'mishka', 'miskeen', 'miss', 'missguided', 'mission', 'missoni', 'mistress', 'mitchell', 'mitchum', 'mitre', 'mitsubishi', 'miu', 'mix', 'mixit', 'miyake', 'mizrahi', 'mizuno', 'ml', 'mlb', 'mm', 'mma', 'moa', 'mobi', 'mobil', 'moda', 'modcloth', 'moden', 'modena', 'modern', 'moisture', 'mojo', 'moly', 'moments', 'mommy', 'moms', 'monaco', 'monarchy', 'moncler', 'monday', 'monet', 'mongoose', 'monica', 'monique', 'monistat', 'monkey', 'monopoly', 'monoprice', 'monoreno', 'monster', 'monteau', 'moon', 'moore', 'moose', 'mopar', 'mopas', 'moret', 'morgan', 'mori', 'morphe', 'morrison', 'moschino', 'moshi', 'moss', 'mossimo', 'mossy', 'motel', 'moth', 'mother', 'motherhood', 'motion', 'motor', 'motorcycle', 'motorola', 'motorsport', 'motto', 'moulinette', 'mountain', 'mountaineering', 'mouse', 'movado', 'movers', 'moves', 'moving', 'moxy', 'mr', 'msi', 'msk', 'muck', 'mud', 'mudd', 'mueller', 'mugler', 'muk', 'mulberry', 'mulisha', 'multimedia', 'mumu', 'munchkin', 'murad', 'mural', 'murano', 'murphy', 'muse', 'music', 'musician', 'mustard', 'mustela', 'mutant', 'mv', 'my', 'mycra', 'mylec', 'mystere', 'mystic', 'myths', 'mz', 'nabisco', 'nade', 'nair', 'naked', 'nambe', 'namco', 'nana', 'nancy', 'nanette', 'nang', 'nanoblock', 'naomi', 'narciso', 'nars', 'nascar', 'nash', 'nasty', 'natasha', 'nathan', 'national', 'native', 'natori', 'natural', 'naturalizer', 'nature', 'naughty', 'nautica', 'navarre', 'navy', 'nba', 'nbn', 'ncaa', 'neatnik', 'nec', 'neca', 'necessary', 'nectar', 'needle', 'needles', 'neewer', 'neff', 'neighborhood', 'neil', 'neill', 'neiman', 'neo', 'neosporin', 'nerf', 'nespresso', 'ness', 'nest', 'netgear', 'network', 'neuburger', 'neutrogena', 'new', 'newport', 'news', 'nex', 'next', 'nexxus', 'nfinity', 'nfl', 'nhl', 'nic', 'nick', 'nickelodeon', 'nicklaus', 'nicola', 'nicole', 'night', 'nike', 'nikon', 'nile', 'nina', 'nine', 'ninety', 'ninja', 'nintendo', 'nipon', 'nite', 'niteline', 'nites', 'nivea', 'nix', 'nixon', 'no', 'no7', 'nobo', 'noco', 'noir', 'noise', 'noiz', 'nojo', 'nokia', 'nollie', 'nook', 'nor', 'nora', 'nordstrom', 'norelco', 'norma', 'norman', 'norpro', 'north', 'northcrest', 'northwest', 'norton', 'norway', 'nosefrida', 'nostalgia', 'not', 'notations', 'nothing', 'nouveau', 'nova', 'novella', 'now', 'noxzema', 'nubian', 'nuby', 'nudestix', 'nudie', 'nuk', 'nunn', 'nuroo', 'n

urture', 'nutrabella', 'nutri', 'nutro', 'nvidia', 'ny', 'nyc', 'nydj', 'nye', 'nygard', 'nyko', 'nylabone', 'nyx', 'oaf', 'oak', 'oakley', 'oasis', 'obagi', 'obermeyer', 'obey', 'objects', 'occitane', 'ocean', 'ocra', 'october', 'odille', 'odyssey', 'of', 'off', 'office', 'ogio', 'ogx', 'oh', 'oil', 'oilily', 'oils', 'oki', 'okie', 'olay', 'old', 'oleg', 'olga', 'olian', 'olive', 'oliver', 'olivia', 'olook', 'olsen', 'olufsen', 'olukai', 'olympia', 'olympus', 'omega', 'omron', 'on', 'one', 'oneida', 'onitsuka', 'onkyo', 'only', 'onque', 'onyx', 'onzie', 'oops', 'op', 'opening', 'opi', 'opti', 'optical', 'optics', 'optimum', 'oral', 'orbit', 'oreal', 'oregon', 'organic', 'organics', 'original', 'originals', 'origins', 'oris', 'orla', 'orly', 'orvis', 'oscar', 'osh', 'oshkosh', 'osiris', 'oster', 'other', 'otterbox', 'ouai', 'ouidad', 'our', 'outdoor', 'outfitters', 'outward', 'owens', 'oxbow', 'oxford', 'oxo', 'ozzy', 'pac', 'pacific', 'pacifique', 'packaging', 'paco', 'page', 'paige', 'pal', 'palladium', 'pally', 'palm', 'palmer', 'palms', 'pampered', 'pampers', 'panache', 'panasonic', 'pandora', 'panhandle', 'panic', 'panky', 'pantene', 'pants', 'papas', 'papaya', 'papell', 'paper', 'papi', 'papillon', 'paprika', 'paradise', 'paradox', 'parallel', 'paramount', 'paris', 'parish', 'park', 'parker', 'partners', 'parts', 'party', 'partylite', 'pass', 'passport', 'paste', 'pastry', 'patagonia', 'patek', 'patra', 'patricia', 'patrizia', 'paul', 'paula', 'paw', 'paws', 'pbs', 'pca', 'pea', 'peaches', 'peanut', 'peanuts', 'pearhead', 'pearl', 'pebble', 'peck', 'pedialyte', 'pediasure', 'pedigree', 'peg', 'pelican', 'pelle', 'peluso', 'pendleton', 'penguin', 'penn', 'people', 'peoples', 'pepe', 'peppa', 'peppe', 'pepper', 'per', 'perception', 'perceptions', 'perego', 'perfect', 'perfection', 'performance', 'peripera', 'perla', 'perler', 'permatex', 'perricone', 'perry', 'perse', 'persol', 'personalized', 'peruvian', 'pet', 'peter', 'petit', 'petite', 'petmate', 'petrageous', 'pets', 'petsafe', 'petsmart', 'petunia', 'peugeot', 'pez', 'pfaltzgraff', 'pga', 'phat', 'phil', 'philippe', 'philips', 'phillip', 'phillips', 'philosophy', 'physicians', 'piazza', 'piccard', 'piccone', 'picked', 'pickle', 'picone', 'pictures', 'pie', 'piedmont', 'pier', 'pierre', 'pig', 'piguet', 'pikolinos', 'pilcro', 'pillow', 'pillsbury', 'pilot', 'pim', 'pinc', 'pineapple', 'ping', 'pink', 'pinkblush', 'pinky', 'pinnacle', 'pins', 'pioneer', 'pipeline', 'piperlime', 'pirate', 'pixar', 'pixi', 'pj', 'place', 'plackers', 'planes', 'planet', 'planning', 'plantronics', 'plasmart', 'plate', 'platinum', 'play', 'playboy', 'player', 'playhut', 'playmates', 'playmobil', 'playskool', 'playstar', 'playstation', 'playtex', 'pleasure', 'pleione', 'plenty', 'pliner', 'plugg', 'plus', 'plush', 'pny', 'pod', 'poetry', 'pogo', 'point', 'poise', 'pokemon', 'polar', 'polaroid', 'pole', 'poleci', 'poligrip', 'polk', 'polly', 'polo', 'polycom', 'pond', 'pony', 'poof', 'pop', 'popatu', 'popcap', 'popken', 'pops', 'popsockets', 'popular', 'porsche', 'port', 'posay', 'posen', 'positive', 'post', 'pottery', 'power', 'powerbolt', 'prabal', 'prada', 'prairie', 'prana', 'pravana', 'pre', 'precious', 'precision', 'prefer', 'preferred', 'preggers', 'premier', 'premium', 'prescriptives', 'press', 'pressman', 'prestige', 'presto', 'preston', 'pretty', 'prevail', 'prevue', 'price', 'primal', 'primark', 'primitive', 'primo', 'primula', 'prince', 'princess', 'pringle', 'privilege', 'pro', 'proactiv', 'proclub', 'proctor', 'produce', 'production', 'products', 'proenza', 'professional', 'profile', 'profound', 'progressive', 'pronto', 'proper', 'propet', 'propper', 'protec', 'provider', 'provocateur', 'prps', 'psycho', 'publishing', 'pucci', 'puck', 'puffs', 'puj', 'pulitzer', 'pull', 'pulsar', 'puma', 'punch', 'punto', 'puppia', 'puppies', 'pur', 'pura', 'pure', 'pureology', 'purina', 'pylepro', 'pyrex', 'qalo', 'quacker', 'quantum', 'quartet', 'quay', 'que', 'queen', 'quicksilver', 'quiksilver', 'quinny', 'qupid', 'rabanne', 'rachael', 'rachel', 'raches', 'racing', 'radar', 'radio', 'radios', 'rae', 'rafaella', 'rag', 'rage', 'rags', 'rain', 'rainbow', 'raine', 'rainn', 'raisins', 'ralph', 'ram', 'ramones', 'rampage', 'rand', 'randall', 'raphael', 'rare', 'rasco', 'raskullz', 'rast', 'rated', 'rave', 'raven', 'ravensburger', 'raw', 'rawlings', 'ray', 'razer', 'razor', 'rbk', 'rca', 'rd', 'reach', 'reaction', 'reader', 'real', 'realtree', 'reba', 'rebecca', 'rebel', 'rebelliou

s', 'reckless', 'recoton', 'recreation', 'red', 'redhead', 'redington', 'redken', 'redoute', 'reebok', 'reed', 'reeds', 'reef', 'reese', 'reference', 'reflex', 'reformation', 'refuge', 'regal', 'regalo', 'rei', 'reid', 'reign', 'relativity', 'relic', 'religion', 'remain', 'remington', 'ren', 'rene', 'renew', 'renta', 'renuzit', 'replay', 'report', 'republic', 'request', 'requirements', 'research', 'resistol', 'resources', 'restoration', 'restricted', 'retro', 'retrofit', 'reunion', 'reusch', 'revell', 'revere', 'reverie', 'revitalens', 'revival', 'revlon', 'revolt', 'revolution', 'rewash', 'rewind', 'reyn', 'rhapsody', 'rhonda', 'ribkoff', 'ricci', 'ricco', 'rich', 'richard', 'richards', 'riche', 'richell', 'rick', 'riddell', 'riders', 'ridge', 'riff', 'right', 'rihanna', 'riley', 'rim', 'rimmel', 'ring', 'rio', 'rioni', 'riot', 'rip', 'ripcurl', 'rippers', 'ripple', 'rite', 'ritzy', 'riva', 'rival', 'river', 'rivers', 'rivet', 'riviera', 'rj', 'rlx', 'road', 'roaman', 'roar', 'robbie', 'robbins', 'robeez', 'robert', 'roberta', 'roberto', 'robin', 'roc', 'rocawear', 'roche', 'rock', 'rocket', 'rockies', 'rockport', 'rocks', 'rocksmith', 'rockstar', 'rocktape', 'rocky', 'rodan', 'rodd', 'rodriguez', 'rofe', 'rogers', 'rogue', 'roku', 'rolex', 'rolf', 'roll', 'roller', 'rollerblade', 'romeo', 'romwe', 'romy', 'ron', 'ronco', 'rond', 'ronni', 'ronny', 'ronson', 'room', 'roommates', 'roots', 'rootswear', 'roper', 'rose', 'roseart', 'rosetti', 'rosewill', 'rossignol', 'roth', 'rothco', 'rothschild', 'rouge', 'roulette', 'roundtree', 'route', 'rowan', 'rowdy', 'rowley', 'rox', 'roxy', 'roy', 'royal', 'royale', 'royce', 'rubbermaid', 'rubbish', 'rubies', 'rubin', 'ruby', 'rue', 'rue21', 'ruehl', 'ruff', 'rugged', 'rumparooz', 'rusk', 'russ', 'russe', 'russell', 'rustler', 'rustlers', 'rusty', 'ruth', 'rvca', 'rxb', 'ryka', 'rykiel', 'saab', 'sabo', 'sacred', 'saddlebred', 'sadek', 'sadie', 'sadock', 'safety', 'saffron', 'sag', 'saga', 'saint', 'saints', 'sak', 'saks', 'sally', 'salomon', 'salon', 'salt', 'salton', 'salvage', 'salvatore', 'sam', 'samra', 'samsonite', 'samsung', 'samuel', 'san', 'sanctuary', 'sandals', 'sander', 'sandisk', 'sandra', 'sandro', 'sangria', 'sanrio', 'sans', 'sansabelt', 'santa', 'santana', 'sante', 'santi', 'sanuk', 'sanyo', 'sara', 'sarah', 'sarto', 'sas', 'sass', 'sasson', 'sassy', 'satchel', 'satellite', 'saucony', 'savane', 'savannah', 'savvy', 'sax', 'saxx', 'say', 'sbicca', 'scala', 'scale', 'scarlett', 'scentblocker', 'scents', 'scentsy', 'schick', 'schleich', 'schmidt', 'scholastic', 'scholl', 'schouler', 'schumacher', 'schutt', 'schutz', 'schwartz', 'schwarz', 'schwarzkopf', 'schwinn', 'schylling', 'science', 'scientific', 'scope', 'scosche', 'scotch', 'scotland', 'scott', 'scout', 'screen', 'scrub', 'scrumptious', 'scunci', 'se', 'sea', 'seafolly', 'seagate', 'seal', 'sean', 'sears', 'seasons', 'seatbelt', 'sebago', 'sebastian', 'secret', 'secrets', 'see', 'seed', 'seen', 'sega', 'segal', 'seibel', 'seiko', 'sejour', 'select', 'self', 'sempione', 'senegence', 'sennheiser', 'sensitive', 'sensodyne', 'sentry', 'senza', 'sephora', 'sequin', 'seraphine', 'sere', 'serenity', 'seresto', 'sergeants', 'serious', 'serta', 'service', 'sesame', 'seuss', 'seven', 'seven7', 'sewn', 'seychelles', 'shabby', 'shaka', 'shane', 'sharagano', 'sharp', 'sharper', 'sharpie', 'shaun', 'she', 'shea', 'shear', 'sheba', 'sheer', 'sheffield', 'shelf', 'shell', 'shelli', 'sherman', 'sherpa', 'sherri', 'shift', 'shimano', 'shinola', 'shirley', 'shirt', 'shiseido', 'shock', 'shoe', 'shoes', 'shoji', 'shop', 'shops', 'shore', 'shores', 'shoshanna', 'shoulders', 'show', 'shu', 'shure', 'sider', 'sierra', 'sigerson', 'signature', 'sigrid', 'sigvaris', 'silence', 'silex', 'silhouette', 'silhouettes', 'silk', 'silkies', 'silkland', 'silly', 'silpada', 'silver', 'similac', 'simms', 'simon', 'simonton', 'simple', 'simplehuman', 'simply', 'simpson', 'sinful', 'singing', 'siriano', 'sirius', 'sisley', 'siwy', 'sixty', 'size', 'sjb', 'sjp', 'sk', 'skagen', 'skechers', 'sketch', 'sketchers', 'skin', 'skincare', 'skinceuticals', 'skinny', 'skintimate', 'skip', 'skirt', 'sklz', 'skullcandy', 'sky', 'skycaddie', 'skye', 'skywalker', 'sl', 'slam', 'slatkin', 'slazenger', 'sleek', 'sleeping', 'sleeves', 'slim', 'slime', 'slinky', 'slugger', 'smart', 'smartwool', 'smartzone', 'smashbox', 'smead', 'smith', 'smithsonian', 'snap', 'snark', 'snow', 'snug', 'snuggie', 'snugglers', 'so', 'society', 'sock', 'socks', 'soda',

'soeurs', 'sof', 'soffe', 'sofft', 'soft', 'softcup', 'softsoap', 'softworks', 'soho', 'sol', 'solar', 'sole', 'soles', 'solly', 'solo', 'soludos', 'solvit', 'soma', 'somedays', 'somerville', 'sonia', 'sonix', 'sonoma', 'sons', 'sony', 'sophia', 'sophisticate', 'soprano', 'sorel', 'sorrelli', 'sottero', 'souci', 'soul', 'soulmates', 'souls', 'source', 'south', 'southern', 'southpole', 'sovereign', 'sox', 'soybu', 'space', 'spade', 'spalding', 'spanx', 'sparkle', 'sparks', 'spec', 'specialties', 'speck', 'spectra', 'speechless', 'speeco', 'speed', 'speedo', 'spell', 'spencer', 'spense', 'spenser', 'sperry', 'sperrys', 'spice', 'spider', 'spiderman', 'spiegel', 'spiga', 'spin', 'spirit', 'spitfire', 'splash', 'splashers', 'splat', 'splendid', 'split', 'spool', 'spooner', 'sporn', 'sport', 'sportbrain', 'sportiv', 'sports', 'sportswear', 'sportwear', 'spot', 'spring', 'sprout', 'spy', 'spyder', 'square', 'squeeze', 'srixon', 'st', 'stacy', 'stafford', 'stag', 'stage', 'stampd', 'stamped', 'stance', 'stands', 'stanley', 'star', 'starbucks', 'staring', 'starmark', 'stars', 'start', 'starter', 'starts', 'state', 'states', 'stats', 'status', 'stayfree', 'steadfast', 'stefani', 'stefano', 'steiff', 'stella', 'step', 'stephen', 'sterling', 'stetson', 'steve', 'steven', 'stevens', 'stewart', 'stick', 'stila', 'stitch', 'stitches', 'stokke', 'stone', 'stonebridge', 'stoosh', 'stop', 'store', 'stores', 'storkcraft', 'stormtech', 'story', 'stranded', 'straps', 'strauss', 'stream', 'streamlight', 'street', 'streets', 'streetwise', 'stride', 'strivectin', 'strollers', 'structure', 'stu', 'stuart', 'studio', 'studios', 'stuff', 'stussy', 'stx', 'style', 'styli', 'stüssy', 'suave', 'success', 'sud', 'sue', 'sugar', 'sugarpill', 'sugoi', 'sui', 'suit', 'sullen', 'sumersault', 'summer', 'sun', 'sunbeam', 'sundae', 'sundance', 'sunday', 'sundog', 'sunglasses', 'sunny', 'sunwear', 'super', 'superdry', 'superga', 'supply', 'supra', 'supreme', 'sure', 'surroundings', 'susan', 'susana', 'sutton', 'suzi', 'swaddle', 'swaddlers', 'swak', 'swarovski', 'sweaters', 'swedish', 'sweet', 'swell', 'swiffer', 'swim', 'swimmers', 'swimways', 'swimwear', 'swiss', 'sylvania', 'syroco', 'systems', 'taboo', 'tacori', 'tactical', 'tadashi', 'tag', 'taggies', 'tahari', 'tail', 'tailorbyrd', 'takara', 'takeout', 'talbots', 'talbott', 'tam', 'tamer', 'tampax', 'tan', 'tangents', 'tangerine', 'tangle', 'tanner', 'tanning', 'tano', 'tapout', 'tara', 'tarantino', 'target', 'targus', 'tarina', 'tart', 'tarte', 'tassimo', 'tasso', 'tatcha', 'taverniti', 'tavik', 'taylor', 'taylormade', 'tbags', 'tdk', 'tea', 'teal', 'team', 'teaspoon', 'tec', 'tech', 'technica', 'technics', 'techniques', 'techno', 'technologies', 'technology', 'technomarine', 'tecnica', 'ted', 'teds', 'tee', 'teefury', 'teenage', 'tees', 'teeze', 'teezer', 'tehama', 'tek', 'telebrands', 'teleflora', 'tempt', 'ten', 'tena', 'tennessee', 'terani', 'terez', 'terra', 'territory', 'terry', 'tervis', 'teryx', 'tess', 'testament', 'testoni', 'teton', 'tetra', 'teva', 'tevolio', 'texas', 'the', 'thebalm', 'thelees', 'theory', 'therapy', 'thermos', 'thierry', 'things', 'thinkfun', 'thinkway', 'thom', 'thomas', 'thomson', 'thor', 'thought', 'thrasher', 'threadless', 'threads', 'three', 'thrive', 'thule', 'thundershirt', 'tiana', 'tianello', 'tiara', 'tiare', 'tibi', 'tick', 'tickled', 'tide', 'tidy', 'tieks', 'tiffany', 'tiger', 'tigerlily', 'tigi', 'tignanello', 'tikes', 'tilbury', 'tildon', 'tile', 'tilly', 'tilt', 'timber', 'timberland', 'time', 'times', 'timex', 'timi', 'timing', 'tinker', 'tinley', 'tinseltown', 'tiny', 'tippee', 'tissot', 'titleist', 'tm', 'to', 'toad', 'toast', 'toastmaster', 'tobi', 'toca', 'tod', 'together', 'toggs', 'tokidoki', 'tolani', 'tolly', 'tom', 'tomato', 'tommee', 'tommy', 'toms', 'tomtom', 'tomy', 'tone', 'tonka', 'tonner', 'tony', 'too', 'tool', 'tools', 'tootsie', 'top', 'topic', 'topman', 'topps', 'topshop', 'torch', 'torn', 'torrid', 'tory', 'toshiba', 'tot', 'totes', 'tots', 'touch', 'tour', 'tourister', 'tous', 'towncraft', 'townsend', 'toy', 'toynami', 'toys', 'toysmith', 'tp', 'tractr', 'tracy', 'trade', 'trading', 'traffic', 'trail', 'trains', 'trampolines', 'travis', 'treasure', 'tree', 'trees', 'trend', 'trends', 'tresemme', 'tresics', 'tresor', 'tretorn', 'trevco', 'tria', 'triangl', 'triangles', 'tribest', 'tricots', 'trina', 'triple', 'tripp', 'trish', 'triumph', 'trixie', 'trixxi', 'tropez', 'trouve', 'tru', 'true', 'trukfi', 'truly', 'trump', 'trunk', 't

sum', 'tuff', 'tularosa', 'tulle', 'tultex', 'tumi', 'tummie', 'tunes', 'tupperware', 'turk', 'turnbull', 'turnbury', 'turtle', 'turtles', 'tv', 'tweeds', 'tweezerman', 'twelfth', 'twenty', 'twiggy', 'twilight', 'twisted', 'twister', 'two', 'tyler', 'tyr', 'tyra', 'tyrwhitt', 'tyte', 'ubbi', 'ubisoft', 'uemura', 'ufc', 'ugg', 'uglydoll', 'ujena', 'ulla', 'ulta', 'ultima', 'ultimate', 'ultimatetv', 'ultra', 'umbra', 'umbro', 'umo', 'uncle', 'uncommon', 'undefeated', 'under', 'undercover', 'underscore', 'underwood', 'ungaro', 'unger', 'uniden', 'unif', 'unik', 'unionbay', 'uniqlo', 'unique', 'unisa', 'unit', 'united', 'universal', 'universe', 'univsersal', 'unlimited', 'unlisted', 'unltd', 'unwired', 'uomo', 'up', 'update', 'uppababy', 'ups', 'upspring', 'urban', 'us', 'usa', 'usaf', 'usaopoly', 'va', 'valentino', 'valerie', 'valvo', 'van', 'vanderbilt', 'vanek', 'vaneli', 'vanilla', 'vanity', 'vans', 'vantage', 'variety', 'varsity', 'varvatos', 'vaseline', 'vasque', 'velocity', 'velvet', 'veneta', 'venezia', 'vente', 'venus', 'vera', 'veronica', 'versace', 'vertigo', 'vet', 'via', 'vibram', 'vichy', 'vickerman', 'vicks', 'victor', 'victoria', 'victorinox', 'victorious', 'video', 'viewsonic', 'vigoss', 'viktor', 'vilebrequin', 'villager', 'vince', 'vincent', 'vines', 'vineyard', 'vintage', 'violet', 'viper', 'virgin', 'virgo', 'viseart', 'vissla', 'visual', 'visvim', 'vita', 'vitakraft', 'vital', 'vitamin', 'vitamins', 'vitamix', 'vittadini', 'vivid', 'vivienne', 'viviscal', 'vix', 'vixen', 'viz', 'vocal', 'volatile', 'volcom', 'vollrath', 'von', 'voodoo', 'voom', 'vtech', 'vuitton', 'wacoal', 'wacom', 'wagner', 'wahl', 'walker', 'wall', 'wallace', 'wallflower', 'wallis', 'walls', 'walt', 'walter', 'wang', 'wanted', 'warby', 'ware', 'warehouse', 'waring', 'warner', 'warren', 'warrior', 'wars', 'was', 'watch', 'watchers', 'water', 'waterford', 'waterman', 'waterpik', 'watson', 'wave', 'waverly', 'waves', 'wb', 'wd', 'we', 'wear', 'wearfirst', 'weather', 'weatherproof', 'weaver', 'weavers', 'webster', 'wedgwood', 'wees', 'weigh', 'weight', 'weitzman', 'wellington', 'wellness', 'wembley', 'wendy', 'werner', 'wesc', 'west', 'westbound', 'western', 'weston', 'westwood', 'wet', 'wham', 'what', 'wheels', 'whirlpool', 'whish', 'whiskas', 'whisker', 'whistler', 'white', 'who', 'wick', 'wigwam', 'wild', 'wildfox', 'wildkin', 'willi', 'william', 'williams', 'willow', 'wilson', 'wilsons', 'wilton', 'winchester', 'windsor', 'wing', 'winner', 'wisdom', 'wish', 'wit', 'within', 'wizards', 'wolfgang', 'wolford', 'wolly', 'wolverine', 'woman', 'wonderworld', 'wong', 'woodwick', 'woolen', 'woolrich', 'woot', 'works', 'workshop', 'world', 'worldwide', 'worth', 'worthington', 'wow', 'wowwee', 'wrangler', 'wrapper', 'wright', 'wu', 'wubbanub', 'wusthof', 'wwe', 'xbox', 'xcvi', 'xelement', 'xen', 'xenith', 'xerox', 'xersion', 'xhilaration', 'xm', 'xoxo', 'xscape', 'xtreme', 'xxi', 'ya', 'yada', 'yakima', 'yamaha', 'yamamoto', 'yankee', 'ybike', 'years', 'yeezy', 'yelete', 'yell', 'yellow', 'yes', 'yeti', 'yigal', 'ymi', 'yoana', 'yoga', 'yohji', 'yoki', 'yoo', 'york', 'yorke', 'yosi', 'you', 'young', 'youngland', 'younique', 'your', 'youth', 'yru', 'ysl', 'yumi', 'yummie', 'yurman', 'yves', 'yvolution', 'zac', 'zaggora', 'zak', 'zales', 'zana', 'zanerobe', 'zanotti', 'zara', 'zco', 'zebra', 'zeeland', 'zegna', 'zella', 'zen', 'zena', 'zenana', 'zero', 'zeroxposur', 'zigi', 'zileri', 'zilla', 'zimmerman', 'zion', 'zobo', 'zoe', 'zojirushi', 'zoli', 'zone', 'zoo', 'zoom', 'zoot', 'zum', 'zumba', 'zune', 'zyxel']

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In [124]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['brand_name'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
submission_brand_name2 = vectorizer.transform(test2['brand_name'].values)


print("After vectorizations")
print(submission_brand_name2.shape)


print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(3460725, 4822)
['05', '10', '11', '148', '191', '1960', '1981', '1byone', '1st', '21', '2
1men', '24', '2b', '2k', '2xu', '3m', '40', '44', '47', '525', '5th', '6
6', '72', '8732', '90', '925', 'ab', 'abbott', 'abboud', 'abc', 'abercromb
ie', 'able', 'abs', 'absorber', 'abu', 'ac', 'acacia', 'academy', 'accel',
'accents', 'accessories', 'accessory', 'accutron', 'acdelco', 'acer', 'acn
e', 'acorn', 'acrobat', 'act', 'active', 'activewear', 'activision', 'actr
on', 'ad', 'adagio', 'adam', 'adams', 'add', 'addario', 'addison', 'adee',
'aden', 'adidas', 'adler', 'adolfo', 'adonna', 'adora', 'adrianna', 'adria
no', 'adrienne', 'advanced', 'advantage', 'advantix', 'advent', 'adventur
e', 'advil', 'aerie', 'aerin', 'aero', 'aerolatte', 'aeropostale', 'aeropr
ess', 'aerosoles', 'aesthetic', 'affliction', 'ag', 'again', 'against', 'a
gb', 'ageless', 'agent', 'agetec', 'agfa', 'agraria', 'agua', 'aguadecoc
o', 'aid', 'aidan', 'aigner', 'aiptek', 'air', 'airwalk', 'aka', 'akademik
s', 'akai', 'akira', 'akoo', 'akris', 'alan', 'alba', 'albert', 'alberto',
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lfani', 'alfred', 'algenist', 'ali', 'alia', 'alice', 'alife', 'all', 'all
egra', 'allegri', 'allen', 'alliance', 'allison', 'alloy', 'allsaints', 'a
llure', 'allyn', 'almay', 'almost', 'alo', 'along', 'alpha', 'alpine', 'al
pinestars', 'alstyle', 'altamont', 'altar', 'altec', 'alternative', 'altr
a', 'always', 'alyce', 'alyn', 'alythea', 'amanda', 'amazon', 'amazonbasic
s', 'ambiance', 'ambrielle', 'amd', 'ameda', 'america', 'american', 'ami
a', 'amika', 'amoena', 'amphibious', 'amsoil', 'amusement', 'amy', 'anai
s', 'anastasia', 'anchor', 'and', 'and1', 'anderson', 'andersson', 'andi
s', 'andrea', 'andrew', 'angel', 'angelcare', 'angeles', 'angelina', 'ange
lo', 'angels', 'angie', 'angiolini', 'angl', 'angry', 'ani', 'animal', 'an
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'anolon', 'anon', 'anthony', 'anthropologie', 'antigua', 'antik', 'antili
a', 'antique', 'antlers', 'antonio', 'anvil', 'anxiety', 'ape', 'api', 'ap
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rmor', 'armour', 'army', 'aroma', 'arpels', 'arrid', 'arrivals', 'arrow',
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hleta', 'athlete', 'athletech', 'athletic', 'athletica', 'athletics', 'at
i', 'atlantis', 'atmosphere', 'attends', 'attention', 'attitude', 'au', 'a
udemars', 'audi', 'audigier', 'audio', 'audiosource', 'audiovox', 'audre
y', 'august', 'augusta', 'aura', 'aurora', 'aurum', 'aussie', 'austin', 'a
ustralia', 'australian', 'authentic', 'authority', 'autolite', 'automotiv
e', 'ava', 'aveda', 'aveeno', 'avent', 'avenue', 'avery', 'avia', 'avire
x', 'avon', 'ax', 'axcess', 'axe', 'azo', 'azria', 'azrouel', 'azules', 'a
zzaro', 'aéropostale', 'babies', 'babolat', 'baby', 'babybjorn', 'babygani
cs', 'babyhome', 'bacati', 'bacco', 'bachmann', 'bachrach', 'back', 'bad',
'badescu', 'badger', 'badgley', 'bag', 'bagatelle', 'baggallini', 'baham
a', 'bailey', 'baker', 'bakers', 'balance', 'balboa', 'baleaf', 'balenciag
a', 'ball', 'bally', 'balm', 'balmain', 'baltex', 'bambo', 'bamboo', 'bamb
oobies', 'ban', 'banana', 'bananafish', 'band', 'bandai', 'bandit', 'bando
lino', 'bandz', 'bang', 'bank', 'banks', 'banzai', 'bape', 'bar', 'barasch
i', 'baratza', 'barbasol', 'barbie', 'barbour', 'barcelona', 'bare', 'bare
foot', 'bareminerals', 'bari', 'barn', 'barnes', 'barnett', 'barneys', 'ba
rron', 'barrow', 'barry', 'barska', 'barth', 'basic', 'basics', 'basket',
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'baublebar', 'bauer', 'bausch', 'bay', 'bayer', 'bb', 'bc', 'bcbg', 'bcbge
neration', 'bcbgirls', 'bcbgmaxazria', 'bcx', 'bdg', 'be', 'beaba', 'beac
h', 'bean', 'beans', 'bear', 'beard', 'bearpaw', 'beats', 'beauticontrol',
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ds', 'bebop', 'becca', 'beckham', 'bed', 'bedhead', 'bee', 'beechnut', 'be
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ene', 'bees', 'begin', 'behavior', 'bejeweled', 'believe', 'belif', 'belkin', 'bell', 'bella', 'bellatrix', 'belldini', 'belle', 'belleek', 'bellissimo', 'belltech', 'belly', 'bematernity', 'ben', 'benard', 'benbasset', 'benbat', 'bench', 'bend', 'bendel', 'bendita', 'benefit', 'beneful', 'benetton', 'bennett', 'bepuzzled', 'berek', 'beretta', 'bergan', 'berger', 'berkley', 'berkshire', 'bernardo', 'berne', 'bernie', 'bernini', 'bershka', 'best', 'bethesda', 'betsey', 'betsy', 'better', 'bettie', 'betty', 'beverly', 'beyond', 'bh', 'bialetti', 'biasia', 'bic', 'bide', 'big', 'bigelow', 'bike', 'bikerwear', 'bikes', 'bikinis', 'bill', 'billabong', 'billionaire', 'billy', 'bini', 'bio', 'biore', 'bioworld', 'bird', 'birds', 'birkenstock', 'bisou', 'bissell', 'bite', 'bits', 'bitten', 'bitton', 'bjorn', 'bke', 'blac', 'black', 'blackhawk', 'blackmilk', 'blahnik', 'blaine', 'blair', 'blakely', 'blanc', 'blanca', 'blank', 'blanknyc', 'blanqi', 'blass', 'blauer', 'blendtec', 'blinc', 'blind', 'blink', 'blip', 'bliss', 'blitz', 'blizzard', 'bloch', 'bloks', 'blondie', 'bloom', 'bloomfield', 'blooming', 'bloomingdale', 'blossom', 'blowfish', 'blu', 'blue', 'blues', 'blunt', 'blush', 'bmw', 'boat', 'bob', 'bobbi', 'bobbie', 'bobeau', 'boden', 'bodum', 'body', 'bogner', 'bogs', 'boho', 'bolle', 'bond', 'bondi', 'bone', 'bongo', 'bonne', 'bonnie', 'bonobos', 'bonworth', 'boo', 'booginhead', 'boohoo', 'books', 'boom', 'boomco', 'boon', 'boop', 'boot', 'boots', 'booty', 'boppy', 'borg', 'borghese', 'born', 'bornfree', 'borrelli', 'bosch', 'boscia', 'bose', 'boss', 'boston', 'bostonian', 'botanicals', 'botkier', 'bottega', 'bottom', 'bottoms', 'boudreauxs', 'boulevard', 'boundaries', 'bourbon', 'bourjois', 'bourke', 'boutique', 'bouwer', 'bowery', 'bowflex', 'bowls', 'bowties', 'box', 'boxercraft', 'boxing', 'boy', 'boys', 'bp', 'bradley', 'braetan', 'brahmin', 'brand', 'brandon', 'brands', 'brandt', 'brandy', 'braun', 'bravado', 'brave', 'brazilroxx', 'breathablebaby', 'breckelles', 'breckenridge', 'breeze', 'breezies', 'breitling', 'brentwood', 'brest', 'bret', 'breville', 'breyer', 'brezza', 'brica', 'bridal', 'bridge', 'bridgestone', 'briggs', 'bright', 'brighton', 'brine', 'briogeo', 'brioni', 'bristol', 'brit', 'brita', 'britax', 'brittany', 'brittar', 'brittney', 'brix', 'brixton', 'broadheads', 'brockum', 'broke', 'brooke', 'brooklyn', 'brooks', 'brookstone', 'bros', 'brother', 'brothers', 'brown', 'browne', 'browning', 'bruder', 'bruno', 'brush', 'brut', 'brute', 'bryant', 'bubble', 'bubblegum', 'bucci', 'buchman', 'buck', 'bucket', 'buckle', 'buckley', 'buddha', 'buddy', 'budge', 'buffalo', 'bug', 'bugaboo', 'buggy', 'bugle', 'bullet', 'bullhead', 'bully', 'bulova', 'bulwark', 'bumble', 'bumbleride', 'bumbo', 'bumgenius', 'bumkins', 'bunn', 'bunny', 'burberry', 'burch', 'burke', 'burlon', 'burnside', 'burt', 'burton', 'bush', 'bushnell', 'but', 'butt', 'butter', 'butterfly', 'buxom', 'buxton', 'bvd', 'bvlgari', 'by', 'byas', 'byer', 'bésame', 'ca', 'cabela', 'cabernet', 'cabi', 'cabin', 'cable', 'cache', 'cachet', 'cacia', 'cacique', 'cactus', 'cafe', 'cake', 'cal', 'calgon', 'cali', 'calia', 'calico', 'california', 'call', 'callaway', 'calphalon', 'calvin', 'calypso', 'cambio', 'cambridge', 'camel', 'camelbak', 'camilia', 'camilla', 'campbell', 'camper', 'campia', 'camuto', 'canada', 'canali', 'candie', 'candle', 'candy', 'cannon', 'canon', 'canterbury', 'canvas', 'canyon', 'capcom', 'capelli', 'capezio', 'capresso', 'caravelli', 'carbon', 'cardin', 'cardinal', 'cards', 'care', 'carefree', 'caress', 'carey', 'cargo', 'carhartt', 'caribbean', 'carle', 'carlos', 'carlson', 'carmen', 'carmex', 'carnival', 'carol', 'carole', 'carolina', 'carolyn', 'carrera', 'carrhart', 'carrie', 'cars', 'carson', 'carter', 'cartier', 'cartoon', 'caruso', 'carven', 'cascade', 'case', 'casio', 'caslon', 'cassandra', 'cassini', 'castell', 'castle', 'castles', 'casual', 'casuals', 'cat', 'catalina', 'caterpillar', 'catherine', 'catherines', 'cathy', 'catit', 'cato', 'cats', 'cattleman', 'caudalie', 'cavalli', 'cavaricci', 'cb', 'cc', 'ccb', 'ccm', 'cdc', 'ceaco', 'cecico', 'celebrity', 'celine', 'cello', 'center', 'central', 'century', 'cepia', 'cerave', 'ceremony', 'cerruti', 'cesar', 'cetaphil', 'cha', 'chaco', 'chadwicks', 'chalk', 'chamilia', 'champion', 'champs', 'chan', 'chanel', 'changes', 'chann', 'channel', 'chantelle', 'chaps', 'chapstick', 'character', 'charles', 'charlie', 'charlotte', 'charmin', 'charming', 'charter', 'chaser', 'c

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ye', 'nygard', 'nyko', 'nylabone', 'nyx', 'oaf', 'oak', 'oakley', 'oasis', 'obagi', 'obermeyer', 'obey', 'objects', 'occitane', 'ocean', 'ocra', 'october', 'odille', 'odyssey', 'of', 'off', 'office', 'ogio', 'ogx', 'oh', 'oil', 'oilily', 'oils', 'oki', 'okie', 'olay', 'old', 'oleg', 'olga', 'olian', 'olive', 'oliver', 'olivia', 'olook', 'olsen', 'olufsen', 'olukai', 'olympia', 'olympus', 'omega', 'omron', 'on', 'one', 'oneida', 'onitsuka', 'onkyo', 'only', 'onque', 'onyx', 'onzie', 'oops', 'op', 'opening', 'opi', 'opti', 'optical', 'optics', 'optimum', 'oral', 'orbit', 'oreal', 'oregon', 'organic', 'organics', 'original', 'originals', 'origins', 'oris', 'orla', 'orly', 'orvis', 'oscar', 'osh', 'oshkosh', 'osiris', 'oster', 'other', 'otterbox', 'ouai', 'ouidad', 'our', 'outdoor', 'outfitters', 'outward', 'owens', 'oxbow', 'oxford', 'oxo', 'ozzy', 'pac', 'pacific', 'pacifique', 'packaging', 'paco', 'page', 'paige', 'pal', 'palladium', 'pally', 'palm', 'palmer', 'palms', 'pampered', 'pampers', 'panache', 'panasonic', 'pandora', 'panhandle', 'panic', 'panky', 'pantene', 'pants', 'papas', 'papaya', 'papell', 'paper', 'papi', 'papillon', 'paprika', 'paradise', 'paradox', 'parallel', 'paramount', 'paris', 'parish', 'park', 'parker', 'partners', 'parts', 'party', 'partylite', 'pass', 'passport', 'paste', 'pastry', 'patagonia', 'patek', 'patra', 'patricia', 'patrizia', 'paul', 'paula', 'paw', 'paws', 'pbs', 'pca', 'pea', 'peaches', 'peanut', 'peanuts', 'pearhead', 'pearl', 'pebble', 'peck', 'pedialyte', 'pediasure', 'pedigree', 'peg', 'pelican', 'pelle', 'peluso', 'pendleton', 'penguin', 'penn', 'people', 'peoples', 'pepe', 'peppa', 'peppe', 'pepper', 'per', 'perception', 'perceptions', 'perego', 'perfect', 'perfection', 'performance', 'peripera', 'perla', 'perler', 'permatex', 'perricone', 'perry', 'perse', 'persol', 'personalized', 'peruvian', 'pet', 'peter', 'petit', 'petite', 'petmate', 'petrageous', 'pets', 'petsafe', 'petsmart', 'petunia', 'peugeot', 'pez', 'pfaltzgraff', 'pga', 'phat', 'phil', 'philippe', 'philips', 'phillip', 'phillips', 'philosophy', 'physicians', 'piazza', 'piccard', 'piccone', 'picked', 'pickle', 'picone', 'pictures', 'pie', 'piedmont', 'pier', 'pierre', 'pig', 'piguet', 'pikolinos', 'pilcro', 'pillow', 'pillsbury', 'pilot', 'pim', 'pinc', 'pineapple', 'ping', 'pink', 'pinkblush', 'pinky', 'pinnacle', 'pins', 'pioneer', 'pipeline', 'piperlime', 'pirate', 'pixar', 'pixi', 'pj', 'place', 'plackers', 'planes', 'planet', 'planning', 'plantronics', 'plasmart', 'plate', 'platinum', 'play', 'playboy', 'player', 'playhut', 'playmates', 'playmobil', 'playskool', 'playstar', 'playstation', 'playtex', 'pleasure', 'pleione', 'plenty', 'pliner', 'plugg', 'plus', 'plush', 'pny', 'pod', 'poetry', 'pogo', 'point', 'poise', 'pokemon', 'polar', 'polaroid', 'pole', 'poleci', 'poligrip', 'polk', 'polly', 'polo', 'polycom', 'pond', 'pony', 'poof', 'pop', 'popatu', 'popcap', 'popken', 'pops', 'popsockets', 'popular', 'porsche', 'port', 'posay', 'posen', 'positive', 'post', 'pottery', 'power', 'powerbolt', 'prabal', 'prada', 'prairie', 'prana', 'pravana', 'pre', 'precious', 'precision', 'prefer', 'preferred', 'preggers', 'premier', 'premium', 'prescriptives', 'press', 'pressman', 'prestige', 'presto', 'preston', 'pretty', 'prevail', 'prevue', 'price', 'primal', 'primark', 'primitive', 'primo', 'primula', 'prince', 'princess', 'pringle', 'privilege', 'pro', 'proactiv', 'proclub', 'proctor', 'produce', 'production', 'products', 'proenza', 'professional', 'profile', 'profound', 'progressive', 'pronto', 'proper', 'propet', 'propper', 'protec', 'provider', 'provocateur', 'prps', 'psycho', 'publishing', 'pucci', 'puck', 'puffs', 'puj', 'pulitzer', 'pull', 'pulsar', 'puma', 'punch', 'punto', 'puppia', 'puppies', 'pur', 'pura', 'pure', 'pureology', 'purina', 'pylepro', 'pyrex', 'qalo', 'quacker', 'quantum', 'quartet', 'quay', 'que', 'queen', 'quicksilver', 'quiksilver', 'quinny', 'qupid', 'rabanne', 'rachael', 'rachel', 'raches', 'racing', 'radar', 'radio', 'radios', 'rae', 'rafaella', 'rag', 'rage', 'rags', 'rain', 'rainbow', 'raine', 'rainn', 'raisins', 'ralph', 'ram', 'ramones', 'rampage', 'rand', 'randall', 'raphael', 'rare', 'rasco', 'raskullz', 'rast', 'rated', 'rave', 'raven', 'ravensburger', 'raw', 'rawlings', 'ray', 'razer', 'razor', 'rbk', 'rca', 'rd', 'reach', 'reaction', 'reader', 'real', 'realtree', 'reba', 'rebecca', 'rebel', 'rebellious', 'reckless', 'recoton', 'recreation', 'red', 'redhead', 'redington', 'r

edken', 'redoute', 'reebok', 'reed', 'reeds', 'reef', 'reese', 'referenc
e', 'reflex', 'reformation', 'refuge', 'regal', 'regalo', 'rei', 'reid',
'reign', 'relativity', 'relic', 'religion', 'remain', 'remington', 'ren',
'rene', 'renew', 'renta', 'renuzit', 'replay', 'report', 'republic', 'requ
est', 'requirements', 'research', 'resistol', 'resources', 'restoration',
'restricted', 'retro', 'retrofit', 'reunion', 'reusch', 'revell', 'rever
e', 'reverie', 'revitalens', 'revival', 'revlon', 'revolt', 'revolution',
'rewash', 'rewind', 'reyn', 'rhapsody', 'rhonda', 'ribkoff', 'ricci', 'ric
co', 'rich', 'richard', 'richards', 'riche', 'richell', 'rick', 'riddell',
'riders', 'ridge', 'riff', 'right', 'rihanna', 'riley', 'rim', 'rimmel',
'ring', 'rio', 'rioni', 'riot', 'rip', 'ripcurl', 'rippers', 'ripple', 'ri
te', 'ritzy', 'riva', 'rival', 'river', 'rivers', 'rivet', 'riviera', 'r
j', 'rlx', 'road', 'roaman', 'roar', 'robbie', 'robbins', 'robeez', 'rober
t', 'roberta', 'roberto', 'robin', 'roc', 'rocawear', 'roche', 'rock', 'ro
cket', 'rockies', 'rockport', 'rocks', 'rocksmith', 'rockstar', 'rocktap
e', 'rocky', 'rodan', 'rodd', 'rodriguez', 'rofe', 'rogers', 'rogue', 'rok
u', 'rolex', 'rolf', 'roll', 'roller', 'rollerblade', 'romeo', 'romwe', 'r
omy', 'ron', 'ronco', 'rond', 'ronni', 'ronny', 'ronson', 'room', 'roommat
es', 'roots', 'rootswear', 'roper', 'rose', 'roseart', 'rosetti', 'rosewil
l', 'rossignol', 'roth', 'rothco', 'rothschild', 'rouge', 'roulette', 'rou
ndtree', 'route', 'rowan', 'rowdy', 'rowley', 'rox', 'roxy', 'roy', 'roya
l', 'royale', 'royce', 'rubbermaid', 'rubbish', 'rubies', 'rubin', 'ruby',
'rue', 'rue21', 'ruehl', 'ruff', 'rugged', 'rumparooz', 'rusk', 'russ', 'r
usse', 'russell', 'rustler', 'rustlers', 'rusty', 'ruth', 'rvca', 'rxb',
'ryka', 'rykiel', 'saab', 'sabo', 'sacred', 'saddlebred', 'sadek', 'sadi
e', 'sadock', 'safety', 'saffron', 'sag', 'saga', 'saint', 'saints', 'sa
k', 'saks', 'sally', 'salomon', 'salon', 'salt', 'salton', 'salvage', 'sal
vatore', 'sam', 'samra', 'samsonite', 'samsung', 'samuel', 'san', 'sanctua
ry', 'sandals', 'sander', 'sandisk', 'sandra', 'sandro', 'sangria', 'sanri
o', 'sans', 'sansabelt', 'santa', 'santana', 'sante', 'santi', 'sanuk', 's
anyo', 'sara', 'sarah', 'sarto', 'sas', 'sass', 'sasson', 'sassy', 'satche
l', 'satellite', 'saucony', 'savane', 'savannah', 'savvy', 'sax', 'saxx',
'say', 'sbicca', 'scala', 'scale', 'scarlett', 'scentblocker', 'scents',
'scentsy', 'schick', 'schleich', 'schmidt', 'scholastic', 'scholl', 'schou
ler', 'schumacher', 'schutt', 'schutz', 'schwartz', 'schwarz', 'schwarzkop
f', 'schwinn', 'schylling', 'science', 'scientific', 'scope', 'scosche',
'scotch', 'scotland', 'scott', 'scout', 'screen', 'scrub', 'scrumptious',
'scunci', 'se', 'sea', 'seafolly', 'seagate', 'seal', 'sean', 'sears', 'se
asons', 'seatbelt', 'sebago', 'sebastian', 'secret', 'secrets', 'see', 'se
ed', 'seen', 'sega', 'segal', 'seibel', 'seiko', 'sejour', 'select', 'sel
f', 'sempione', 'senegence', 'sennheiser', 'sensitive', 'sensodyne', 'sent
ry', 'senza', 'sephora', 'sequin', 'seraphine', 'sere', 'serenity', 'seres
to', 'sergeants', 'serious', 'serta', 'service', 'sesame', 'seuss', 'seve
n', 'seven7', 'sewn', 'seychelles', 'shabby', 'shaka', 'shane', 'sharagan
o', 'sharp', 'sharper', 'sharpie', 'shaun', 'she', 'shea', 'shear', 'sheb
a', 'sheer', 'sheffield', 'shelf', 'shell', 'shelli', 'sherman', 'sherpa',
'sherri', 'shift', 'shimano', 'shinola', 'shirley', 'shirt', 'shiseido',
'shock', 'shoe', 'shoes', 'shoji', 'shop', 'shops', 'shore', 'shores', 'sh
oshanna', 'shoulders', 'show', 'shu', 'shure', 'sider', 'sierra', 'sigerso
n', 'signature', 'sigrid', 'sigvaris', 'silence', 'silex', 'silhouette',
'silhouettes', 'silk', 'silkies', 'silkland', 'silly', 'silpada', 'silve
r', 'similac', 'simms', 'simon', 'simonton', 'simple', 'simplehuman', 'sim
ply', 'simpson', 'sinful', 'singing', 'siriano', 'sirius', 'sisley', 'siw
y', 'sixty', 'size', 'sjb', 'sjp', 'sk', 'skagen', 'skechers', 'sketch',
'sketchers', 'skin', 'skincare', 'skinceuticals', 'skinny', 'skintimate',
'skip', 'skirt', 'sklz', 'skullcandy', 'sky', 'skycaddie', 'skye', 'skywal
ker', 'sl', 'slam', 'slatkin', 'slazenger', 'sleek', 'sleeping', 'sleeve
s', 'slim', 'slime', 'slinky', 'slugger', 'smart', 'smartwool', 'smartzon
e', 'smashbox', 'smead', 'smith', 'smithsonian', 'snap', 'snark', 'snow',
'snug', 'snuggie', 'snugglers', 'so', 'society', 'sock', 'socks', 'soda',
'soeurs', 'sof', 'soffe', 'sofft', 'soft', 'softcup', 'softsoap', 'softwor

ks', 'soho', 'sol', 'solar', 'sole', 'soles', 'solly', 'solo', 'soludos', 'solvit', 'soma', 'somedays', 'somerville', 'sonia', 'sonix', 'sonoma', 'sons', 'sony', 'sophia', 'sophisticate', 'soprano', 'sorel', 'sorrelli', 'sottero', 'souci', 'soul', 'soulmates', 'souls', 'source', 'south', 'southern', 'southpole', 'sovereign', 'sox', 'soybu', 'space', 'spade', 'spalding', 'spanx', 'sparkle', 'sparks', 'spec', 'specialties', 'speck', 'spectra', 'speechless', 'speeco', 'speed', 'speedo', 'spell', 'spencer', 'spense', 'spenser', 'sperry', 'sperrys', 'spice', 'spider', 'spiderman', 'spiegel', 'spiga', 'spin', 'spirit', 'spitfire', 'splash', 'splashers', 'splat', 'splendid', 'split', 'spool', 'spooner', 'sporn', 'sport', 'sportbrain', 'sportiv', 'sports', 'sportswear', 'sportwear', 'spot', 'spring', 'sprout', 'spy', 'spyder', 'square', 'squeeze', 'srixon', 'st', 'stacy', 'stafford', 'stag', 'stage', 'stampd', 'stamped', 'stance', 'stands', 'stanley', 'star', 'starbucks', 'staring', 'starmark', 'stars', 'start', 'starter', 'starts', 'state', 'states', 'stats', 'status', 'stayfree', 'steadfast', 'stefani', 'stefano', 'steiff', 'stella', 'step', 'stephen', 'sterling', 'stetson', 'steve', 'steven', 'stevens', 'stewart', 'stick', 'stila', 'stitch', 'stitches', 'stokke', 'stone', 'stonebridge', 'stoosh', 'stop', 'store', 'stores', 'storkcraft', 'stormtech', 'story', 'stranded', 'straps', 'strauss', 'stream', 'streamlight', 'street', 'streets', 'streetwise', 'stride', 'strivectin', 'strollers', 'structure', 'stu', 'stuart', 'studio', 'studios', 'stuff', 'stussy', 'stx', 'style', 'styli', 'stüssy', 'suave', 'success', 'sud', 'sue', 'sugar', 'sugarpill', 'sugoi', 'sui', 'suit', 'sullen', 'sumersault', 'summer', 'sun', 'sunbeam', 'sundae', 'sundance', 'sunday', 'sundog', 'sunglasses', 'sunny', 'sunwear', 'super', 'superdry', 'superga', 'supply', 'supra', 'supreme', 'sure', 'surroundings', 'susan', 'susana', 'sutton', 'suzi', 'swaddle', 'swaddlers', 'swak', 'swarovski', 'sweaters', 'swedish', 'sweet', 'swell', 'swiffer', 'swim', 'swimmers', 'swimways', 'swimwear', 'swiss', 'sylvania', 'syroco', 'systems', 'taboo', 'tacori', 'tactical', 'tadashi', 'tag', 'taggies', 'tahari', 'tail', 'tailorbyrd', 'takara', 'takeout', 'talbots', 'talbott', 'tam', 'tamer', 'tampax', 'tan', 'tangents', 'tangerine', 'tangle', 'tanner', 'tanning', 'tano', 'tapout', 'tara', 'tarantino', 'target', 'targus', 'tarina', 'tart', 'tarte', 'tassimo', 'tasso', 'tatcha', 'taverniti', 'tavik', 'taylor', 'taylormade', 'tbags', 'tdk', 'tea', 'teal', 'team', 'teaspoon', 'tec', 'tech', 'technica', 'technics', 'techniques', 'techno', 'technologies', 'technology', 'technomarine', 'tecnica', 'ted', 'teds', 'tee', 'teefury', 'teenage', 'tees', 'teeze', 'teezer', 'tehama', 'tek', 'telebrands', 'teleflora', 'tempt', 'ten', 'tena', 'tennessee', 'terani', 'terez', 'terra', 'territory', 'terry', 'tervis', 'teryx', 'tess', 'testament', 'testoni', 'teton', 'tetra', 'teva', 'tevolio', 'texas', 'the', 'thebalm', 'thelees', 'theory', 'therapy', 'thermos', 'thierry', 'things', 'thinkfun', 'thinkway', 'thom', 'thomas', 'thomson', 'thor', 'thought', 'thrasher', 'threadless', 'threads', 'three', 'thrive', 'thule', 'thundershirt', 'tiana', 'tianello', 'tiara', 'tiare', 'tibi', 'tick', 'tickled', 'tide', 'tidy', 'tieks', 'tiffany', 'tiger', 'tigerlily', 'tigi', 'tignanello', 'tikes', 'tilbury', 'tildon', 'tile', 'tilly', 'tilt', 'timber', 'timberland', 'time', 'times', 'timex', 'timi', 'timing', 'tinker', 'tinley', 'tinseltown', 'tiny', 'tippee', 'tissot', 'titleist', 'tm', 'to', 'toad', 'toast', 'toastmaster', 'tobi', 'tocca', 'tod', 'together', 'toggs', 'tokidoki', 'tolani', 'tolly', 'tom', 'tomato', 'tommee', 'tommy', 'toms', 'tomtom', 'tomy', 'tone', 'tonka', 'tonner', 'tony', 'too', 'tool', 'tools', 'tootsie', 'top', 'topic', 'topman', 'topps', 'topshop', 'torch', 'torn', 'torrid', 'tory', 'toshiba', 'tot', 'totes', 'tots', 'touch', 'tour', 'tourister', 'tous', 'towncraft', 'townsend', 'toy', 'toynami', 'toys', 'toysmith', 'tp', 'tractr', 'tracy', 'trade', 'trading', 'traffic', 'trail', 'trains', 'trampolines', 'travis', 'treasure', 'tree', 'trees', 'trend', 'trends', 'tresemme', 'tresics', 'tresor', 'tretorn', 'trevco', 'tria', 'triangl', 'triangles', 'tribest', 'tricots', 'trina', 'triple', 'tripp', 'trish', 'triumph', 'trixie', 'trixxi', 'tropez', 'trouve', 'tru', 'true', 'trukfi', 'truly', 'trump', 'trunk', 'tsum', 'tuff', 'tularosa', 'tulle', 'tultex', 'tumi', 'tummie', 'tunes', 't

upperware', 'turk', 'turnbull', 'turnbury', 'turtle', 'turtles', 'tv', 'tw
eeds', 'tweezerman', 'twelfth', 'twenty', 'twiggy', 'twilight', 'twisted',
'twister', 'two', 'tyler', 'tyr', 'tyra', 'tyrwhitt', 'tyte', 'ubbi', 'ubi
soft', 'uemura', 'ufc', 'ugg', 'uglydoll', 'ujena', 'ulla', 'ulta', 'ultim
a', 'ultimate', 'ultimatetv', 'ultra', 'umbra', 'umbro', 'umo', 'uncle',
'uncommon', 'undefeated', 'under', 'undercover', 'underscore', 'underwoo
d', 'ungaro', 'unger', 'uniden', 'unif', 'unik', 'unionbay', 'uniqlo', 'un
ique', 'unisa', 'unit', 'united', 'universal', 'universe', 'univsersal',
'unlimited', 'unlisted', 'unltd', 'unwired', 'uomo', 'up', 'update', 'uppa
baby', 'ups', 'upspring', 'urban', 'us', 'usa', 'usaf', 'usaopoly', 'va',
'valentino', 'valerie', 'valvo', 'van', 'vanderbilt', 'vanek', 'vaneli',
'vanilla', 'vanity', 'vans', 'vantage', 'variety', 'varsity', 'varvatos',
'vaseline', 'vasque', 'velocity', 'velvet', 'veneta', 'venezia', 'vente',
'venus', 'vera', 'veronica', 'versace', 'vertigo', 'vet', 'via', 'vibram',
'vichy', 'vickerman', 'vicks', 'victor', 'victoria', 'victorinox', 'victor
ious', 'video', 'viewsonic', 'vigoss', 'viktor', 'vilebrequin', 'village
r', 'vince', 'vincent', 'vines', 'vineyard', 'vintage', 'violet', 'viper',
'virgin', 'virgo', 'viseart', 'vissla', 'visual', 'visvim', 'vita', 'vitak
raft', 'vital', 'vitamin', 'vitamins', 'vitamix', 'vittadini', 'vivid', 'v
ivienne', 'viviscal', 'vix', 'vixen', 'viz', 'vocal', 'volatile', 'volco
m', 'vollrath', 'von', 'voodoo', 'voom', 'vtech', 'vuitton', 'wacoal', 'wa
com', 'wagner', 'wahl', 'walker', 'wall', 'wallace', 'wallflower', 'walli
s', 'walls', 'walt', 'walter', 'wang', 'wanted', 'warby', 'ware', 'warehou
se', 'waring', 'warner', 'warren', 'warrior', 'wars', 'was', 'watch', 'wat
chers', 'water', 'waterford', 'waterman', 'waterpik', 'watson', 'wave', 'w
averly', 'waves', 'wb', 'wd', 'we', 'wear', 'wearfirst', 'weather', 'weath
erproof', 'weaver', 'weavers', 'webster', 'wedgwood', 'wees', 'weigh', 'we
ight', 'weitzman', 'wellington', 'wellness', 'wembley', 'wendy', 'werner',
'wesc', 'west', 'westbound', 'western', 'weston', 'westwood', 'wet', 'wha
m', 'what', 'wheels', 'whirlpool', 'whish', 'whiskas', 'whisker', 'whistle
r', 'white', 'who', 'wick', 'wigwam', 'wild', 'wildfox', 'wildkin', 'will
i', 'william', 'williams', 'willow', 'wilson', 'wilsons', 'wilton', 'winch
ester', 'windsor', 'wing', 'winner', 'wisdom', 'wish', 'wit', 'within', 'w
izards', 'wolfgang', 'wolford', 'wolly', 'wolverine', 'woman', 'wonderworl
d', 'wong', 'woodwick', 'woolen', 'woolrich', 'woot', 'works', 'workshop',
'world', 'worldwide', 'worth', 'worthington', 'wow', 'wowwee', 'wrangler',
'wrapper', 'wright', 'wu', 'wubbanub', 'wusthof', 'wwe', 'xbox', 'xcvi',
'xelement', 'xen', 'xenith', 'xerox', 'xersion', 'xhilaration', 'xm', 'xox
o', 'xscape', 'xtreme', 'xxi', 'ya', 'yada', 'yakima', 'yamaha', 'yamamot
o', 'yankee', 'ybike', 'years', 'yeezy', 'yelete', 'yell', 'yellow', 'ye
s', 'yeti', 'yigal', 'ymi', 'yoana', 'yoga', 'yohji', 'yoki', 'yoo', 'yor
k', 'yorke', 'yosi', 'you', 'young', 'youngland', 'younique', 'your', 'you
th', 'yru', 'ysl', 'yumi', 'yummie', 'yurman', 'yves', 'yvolution', 'zac',
'zaggora', 'zak', 'zales', 'zana', 'zanerobe', 'zanotti', 'zara', 'zco',
'zebra', 'zeeland', 'zegna', 'zella', 'zen', 'zena', 'zenana', 'zero', 'ze
roxposur', 'zigi', 'zileri', 'zilla', 'zimmerman', 'zion', 'zobo', 'zoe',
'zojirushi', 'zoli', 'zone', 'zoo', 'zoom', 'zoot', 'zum', 'zumba', 'zun
e', 'zyxel']
==
==========================

General category

In [49]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['general_cat'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
train_gen = vectorizer.transform(df_train['general_cat'].values)
test_gen = vectorizer.transform(df_test['general_cat'].values)


print("After vectorizations")
print(train_gen.shape)
print(test_gen.shape)

print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(1186028, 15)
(296507, 15)
['beauty', 'collectibles', 'electronics', 'given', 'handmade', 'home', 'ki
ds', 'label', 'men', 'not', 'other', 'outdoors', 'sports', 'vintage', 'wom
en']
==============================================================================
==========================
```

In [125]:

```python
vectorizer = CountVectorizer(min_df=10)
vectorizer.fit(df_train['general_cat'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
submission_general_cat2 = vectorizer.transform(test2['general_cat'].values)



print("After vectorizations")
print(submission_general_cat2.shape)


print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(3460725, 15)
['beauty', 'collectibles', 'electronics', 'given', 'handmade', 'home', 'ki
ds', 'label', 'men', 'not', 'other', 'outdoors', 'sports', 'vintage', 'wom
en']
================================================================================
==========================
```

Sub-category 1

In [51]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['subcat_1'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
train_subcat1 = vectorizer.transform(df_train['subcat_1'].values)
# we use the fitted CountVectorizer to convert the text to vector
test_subcat1 = vectorizer.transform(df_test['subcat_1'].values)


print("After vectorizations")
print(train_subcat1.shape)
print(test_subcat1.shape)

print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(1186028, 144)
(296507, 144)
['24', '2t', '5t', 'accessories', 'and', 'antique', 'apparel', 'applianc
es', 'art', 'artwork', 'athletic', 'audio', 'automotive', 'baby', 'bags',
'bath', 'bathing', 'bedding', 'blazers', 'blouses', 'body', 'book', 'book
s', 'boys', 'cameras', 'candles', 'car', 'cards', 'care', 'cell', 'ceramic
s', 'children', 'cleaning', 'clothing', 'coats', 'collectibles', 'computer
s', 'consoles', 'crochet', 'daily', 'decor', 'diapering', 'dining', 'doll
s', 'dresses', 'décor', 'electronics', 'ephemera', 'exercise', 'fan', 'fee
ding', 'footwear', 'fragrance', 'furniture', 'games', 'gear', 'geekery',
'girls', 'given', 'glass', 'golf', 'goods', 'gps', 'hair', 'handbags', 'he
alth', 'holidays', 'home', 'hoodies', 'housewares', 'instruments', 'item
s', 'jackets', 'jeans', 'jewelry', 'kids', 'kitchen', 'knitting', 'label',
'magazines', 'makeup', 'maternity', 'media', 'men', 'miniatures', 'mos',
'music', 'musical', 'needlecraft', 'not', 'nursery', 'office', 'organizati
on', 'other', 'others', 'outdoors', 'pants', 'paper', 'patterns', 'pet',
'pets', 'phones', 'photography', 'pottery', 'potty', 'pregnancy', 'purse
s', 'quilts', 'safety', 'seasonal', 'seats', 'serving', 'shoes', 'shop',
'shorts', 'skin', 'skirts', 'sport', 'sports', 'storage', 'store', 'stroll
ers', 'suits', 'supplies', 'surveillance', 'sweaters', 'sweats', 'swimwea
r', 'tablets', 'team', 'tools', 'tops', 'toy', 'toys', 'trading', 'trainin
g', 'travel', 'tv', 'underwear', 'video', 'weddings', 'women', 'woodworkin
g', 'zines']
=============================================================================
=========================
```

In [126]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['subcat_1'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
submission_subcat_12 = vectorizer.transform(test2['subcat_1'].values)



print("After vectorizations")
print(submission_subcat_12.shape)


print(vectorizer.get_feature_names())
print("="*100)
```

```
After vectorizations
(3460725, 144)
['24', '2t', '5t', 'accessories', 'and', 'antique', 'apparel', 'appliance
s', 'art', 'artwork', 'athletic', 'audio', 'automotive', 'baby', 'bags',
'bath', 'bathing', 'bedding', 'blazers', 'blouses', 'body', 'book', 'book
s', 'boys', 'cameras', 'candles', 'car', 'cards', 'care', 'cell', 'ceramic
s', 'children', 'cleaning', 'clothing', 'coats', 'collectibles', 'computer
s', 'consoles', 'crochet', 'daily', 'decor', 'diapering', 'dining', 'doll
s', 'dresses', 'décor', 'electronics', 'ephemera', 'exercise', 'fan', 'fee
ding', 'footwear', 'fragrance', 'furniture', 'games', 'gear', 'geekery',
'girls', 'given', 'glass', 'golf', 'goods', 'gps', 'hair', 'handbags', 'he
alth', 'holidays', 'home', 'hoodies', 'housewares', 'instruments', 'item
s', 'jackets', 'jeans', 'jewelry', 'kids', 'kitchen', 'knitting', 'label',
'magazines', 'makeup', 'maternity', 'media', 'men', 'miniatures', 'mos',
'music', 'musical', 'needlecraft', 'not', 'nursery', 'office', 'organizati
on', 'other', 'others', 'outdoors', 'pants', 'paper', 'patterns', 'pet',
'pets', 'phones', 'photography', 'pottery', 'potty', 'pregnancy', 'purse
s', 'quilts', 'safety', 'seasonal', 'seats', 'serving', 'shoes', 'shop',
'shorts', 'skin', 'skirts', 'sport', 'sports', 'storage', 'store', 'stroll
ers', 'suits', 'supplies', 'surveillance', 'sweaters', 'sweats', 'swimwea
r', 'tablets', 'team', 'tools', 'tops', 'toy', 'toys', 'trading', 'trainin
g', 'travel', 'tv', 'underwear', 'video', 'weddings', 'women', 'woodworkin
g', 'zines']
================================================================================
=========================
```

Sub-category 2

In [53]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['subcat_2'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
train_subcat2 = vectorizer.transform(df_train['subcat_2'].values)
test_subcat2 = vectorizer.transform(df_test['subcat_2'].values)


print("After vectorizations")
print(train_subcat2.shape)
print(test_subcat2.shape)

print(vectorizer.get_feature_names())
print("="*100)
```

After vectorizations
(1186028, 953)
(296507, 953)
['100', '50', '75', 'above', 'accents', 'accessories', 'accessory', 'ace
o', 'action', 'activity', 'adapters', 'adventure', 'advertisement', 'afgha
n', 'air', 'albums', 'all', 'amplifiers', 'and', 'animal', 'animals', 'ani
mation', 'apparel', 'appliances', 'applicators', 'apron', 'area', 'art',
'arts', 'aspirators', 'asymmetrical', 'athletic', 'audio', 'automotive',
'baby', 'backpack', 'backpacks', 'badminton', 'bag', 'baggy', 'bags', 'bag
uette', 'bakeware', 'balls', 'band', 'bar', 'baseball', 'basic', 'basket',
'basketball', 'baskets', 'bass', 'bath', 'bathing', 'bathroom', 'batterie
s', 'beach', 'bead', 'beading', 'beads', 'bed', 'bedding', 'bedroom', 'bed
s', 'bedspreads', 'beer', 'belt', 'belts', 'beverage', 'bibles', 'bibs',
'bicycle', 'bike', 'binoculars', 'bins', 'biographies', 'biography', 'birt
hday', 'blanket', 'blankets', 'blazer', 'blazers', 'block', 'blouse', 'blo
uses', 'blu', 'blue', 'board', 'boards', 'boating', 'body', 'book', 'bookm
ark', 'books', 'booster', 'boot', 'boots', 'bottle', 'bottles', 'bottoms',
'bouncers', 'bouquets', 'bowl', 'bowling', 'bowls', 'box', 'boxes', 'boxin
g', 'boyfriend', 'boys', 'bracelet', 'bracelets', 'bras', 'brass', 'breast
ed', 'breastfeeding', 'brewing', 'briefcases', 'briefs', 'brooch', 'brushe
s', 'bubble', 'buckle', 'building', 'burning', 'business', 'butter', 'butt
on', 'cabinet', 'cabinets', 'cables', 'cabochon', 'caddies', 'cage', 'cak
e', 'calendar', 'calendars', 'calf', 'camcorders', 'camera', 'cameras', 'c
ami', 'camping', 'candle', 'candles', 'cape', 'capri', 'capris', 'caps',
'car', 'cardigan', 'cards', 'care', 'cargo', 'carpenter', 'carriers', 'car
t', 'carving', 'case', 'cases', 'casserole', 'casual', 'cd', 'cell', 'cent
ers', 'ceramic', 'chain', 'chair', 'change', 'changing', 'chargers', 'char
m', 'child', 'children', 'chinos', 'christian', 'christmas', 'classic', 'c
leaners', 'cleaning', 'cleansers', 'cleats', 'clock', 'clocks', 'clogs',
'closet', 'cloth', 'clothing', 'clubs', 'clutch', 'coaster', 'coasters',
'coats', 'coffee', 'collages', 'collar', 'collared', 'collectibles', 'colo
r', 'coloring', 'comforters', 'comic', 'comics', 'compact', 'competitive',
'components', 'conditioner', 'conditioners', 'connectivity', 'consoles',
'containers', 'control', 'convenience', 'cookbook', 'cookware', 'coolers',
'corduroys', 'corner', 'corset', 'cosmetic', 'costume', 'cotton', 'cover',
'coverlets', 'covers', 'cowl', 'cozy', 'cradles', 'crafting', 'crafts', 'c
ream', 'crewneck', 'crib', 'crochet', 'cropped', 'cross', 'crossbody', 'cu
ff', 'cultures', 'cup', 'custom', 'cut', 'cutlery', 'day', 'dead', 'deco
r', 'decorations', 'decorative', 'dehumidifiers', 'denim', 'design', 'desk
tops', 'devices', 'diaper', 'diapers', 'digital', 'dining', 'dinnerware',
'dish', 'dishes', 'dishwashers', 'disposable', 'disposals', 'dj', 'dogs',
'doll', 'dollhouse', 'dolls', 'doormats', 'doorstops', 'doorways', 'doubl
e', 'down', 'draft', 'draperies', 'drawers', 'drawings', 'dress', 'dresse
s', 'drives', 'drums', 'dryers', 'dusting', 'duvet', 'dvd', 'décor', 'earr
ings', 'easter', 'edge', 'education', 'educational', 'effects', 'electrica
l', 'electronic', 'electronics', 'embroidery', 'engineering', 'entertainer
s', 'entertaining', 'entertainment', 'enthusiast', 'ephemera', 'epilator
s', 'equipment', 'etchings', 'exterior', 'eyes', 'eyewear', 'fabric', 'fac
e', 'family', 'fans', 'fantasy', 'fashion', 'favors', 'feather', 'feedin
g', 'feet', 'felted', 'fi', 'fiction', 'field', 'figure', 'figures', 'figu
rine', 'figurines', 'film', 'filters', 'finding', 'fireplaces', 'fishing',
'fitness', 'fixture', 'flare', 'flash', 'flashes', 'flat', 'flats', 'flatw
are', 'fleece', 'floor', 'fluids', 'food', 'football', 'for', 'formal', 'f
our', 'fragrance', 'frame', 'frames', 'freezers', 'fresheners', 'friendl
y', 'front', 'full', 'furniture', 'gadget', 'gadgets', 'gag', 'game', 'gam
es', 'gaming', 'garage', 'garbage', 'garment', 'gates', 'gift', 'girls',
'given', 'glass', 'glassware', 'gloves', 'golf', 'gps', 'graphic', 'groomi
ng', 'guards', 'guest', 'guides', 'guitars', 'gyms', 'hair', 'halloween',
'halter', 'handbag', 'handkerchief', 'handmade', 'hands', 'hanging', 'hanu
kkah', 'harnesses', 'hat', 'hats', 'hawaiian', 'headphones', 'headsets',
'health', 'healthcare', 'heaters', 'hem', 'henley', 'highchairs', 'hikin

g', 'hip', 'historical', 'history', 'hobbies', 'hobo', 'hockey', 'holder', 'holders', 'holiday', 'home', 'hooded', 'hoodie', 'horror', 'house', 'household', 'housewares', 'how', 'human', 'humidifiers', 'humor', 'ice', 'illustrated', 'illustration', 'in', 'inflatable', 'ink', 'inserts', 'instructional', 'instrument', 'instruments', 'interior', 'international', 'invitations', 'ironing', 'irons', 'jacket', 'jackets', 'jean', 'jeans', 'jerseys', 'jewelry', 'joggers', 'journal', 'jumpers', 'just', 'karaoke', 'keyboards', 'keychain', 'khakis', 'kids', 'kitchen', 'kits', 'knee', 'knit', 'knitting', 'knives', 'label', 'lacrosse', 'lamps', 'lanyard', 'laptop', 'laptops', 'laundry', 'learning', 'leash', 'leashes', 'leather', 'leg', 'leggings', 'length', 'lenses', 'lifestyle', 'light', 'lighting', 'lights', 'lightweight', 'line', 'linen', 'linens', 'lingerie', 'links', 'lips', 'literature', 'lithographs', 'live', 'living', 'loafers', 'locks', 'loose', 'loss', 'lotions', 'lover', 'luggage', 'magic', 'magnet', 'magnets', 'makers', 'makeup', 'making', 'map', 'married', 'maternity', 'math', 'mats', 'mattress', 'maxi', 'media', 'medical', 'memoirs', 'men', 'merchandise', 'messenger', 'microphones', 'microwaves', 'mid', 'military', 'mini', 'miniature', 'mirror', 'mirrors', 'mixed', 'mlb', 'mma', 'mock', 'models', 'money', 'monitoring', 'monitors', 'mopping', 'motorcycle', 'mounts', 'mug', 'mules', 'music', 'nail', 'nails', 'nasal', 'nba', 'ncaa', 'neck', 'necklace', 'necklaces', 'necktie', 'needlepoint', 'netbooks', 'netting', 'networking', 'new', 'nfl', 'nhl', 'non', 'nonfiction', 'not', 'notebook', 'novelty', 'nursery', 'nutrition', 'of', 'office', 'oils', 'older', 'one', 'ones', 'ons', 'or', 'orchestra', 'organization', 'organizers', 'origami', 'ornaments', 'other', 'others', 'outdoor', 'outerwear', 'overalls', 'oxfords', 'pacifiers', 'pads', 'pails', 'paint', 'painting', 'paintings', 'palettes', 'pant', 'panties', 'pants', 'paper', 'papermaking', 'paperweights', 'parka', 'parts', 'party', 'patch', 'patchwork', 'patrick', 'patricks', 'patriotic', 'pattern', 'peacoat', 'peasant', 'pencil', 'pendant', 'pepper', 'percussion', 'performance', 'perms', 'personal', 'personalized', 'pet', 'phone', 'phones', 'photo', 'photographs', 'photography', 'piece', 'pieces', 'pilates', 'pillow', 'pillowcases', 'pillows', 'pin', 'pinback', 'pitcher', 'planning', 'planter', 'planters', 'plate', 'platter', 'play', 'playard', 'playards', 'players', 'playmats', 'pleat', 'pleated', 'plus', 'plush', 'poetry', 'politics', 'polo', 'poncho', 'porcelain', 'portable', 'positioners', 'postcard', 'poster', 'posters', 'pot', 'potties', 'pouch', 'powders', 'powersports', 'prams', 'prenatal', 'presentation', 'pretend', 'price', 'primitive', 'print', 'printers', 'printmaking', 'prints', 'products', 'protection', 'protectors', 'publications', 'puffer', 'pullover', 'pumps', 'purifiers', 'purse', 'purses', 'puzzle', 'puzzles', 'quilt', 'quilts', 'racks', 'racquets', 'radio', 'raincoat', 'rainwear', 'ray', 'recording', 'recycling', 'reference', 'refills', 'refrigerators', 'relaxed', 'relaxers', 'relief', 'religion', 'religious', 'remote', 'remover', 'replacement', 'ring', 'rings', 'room', 'rugby', 'rugs', 'safety', 'salt', 'sandals', 'satchel', 'scale', 'scalp', 'scanners', 'scarf', 'scarves', 'scents', 'school', 'sci', 'science', 'sciences', 'scifi', 'scoop', 'scooters', 'scrapbooking', 'screen', 'scrubs', 'sculptures', 'seasonal', 'seat', 'seats', 'security', 'service', 'serving', 'set', 'sets', 'sewing', 'shakers', 'shampoo', 'shampoos', 'shams', 'shawl', 'sheets', 'shelf', 'shelves', 'shipping', 'shirt', 'shirts', 'shoes', 'shoppers', 'shopping', 'shorts', 'shoulder', 'shrug', 'signs', 'skate', 'skateboard', 'skin', 'skinny', 'skins', 'skirt', 'skirts', 'skorts', 'sleep', 'sleeveless', 'slim', 'slip', 'slipcovers', 'slippers', 'small', 'smartphones', 'sneakers', 'snowboard', 'snowsuits', 'soaps', 'soccer', 'social', 'socks', 'softball', 'something', 'sound', 'souvenir', 'space', 'speakers', 'spirituality', 'sponges', 'sport', 'sports', 'st', 'stackers', 'stage', 'stained', 'stamps', 'standard', 'stationery', 'statues', 'steamers', 'step', 'stereos', 'sticker', 'stitch', 'stools', 'stoppers', 'storage', 'straight', 'straps', 'strategy', 'strength', 'stringed', 'strings', 'studio', 'stuffed', 'style', 'styling', 'subwoofers', 'sugar', 'suit', 'suits', 'sun', 'sunglasses', 'supplies', 'supports', 'surf', 'surveillance', 'swabs', 'sweat', 'sweater', 'sweatercoat', 'sweat

ers', 'sweats', 'sweatshirt', 'sweeping', 'swim', 'swimwear', 'swings', 's
ystems', 'table', 'tag', 'tank', 'tape', 'tapestries', 'tea', 'teaching',
'teacup', 'teapot', 'technology', 'teethers', 'teething', 'telephone', 'te
lescopes', 'television', 'televisions', 'tennis', 'tests', 'texturizers',
'thanksgiving', 'the', 'thermal', 'thermometers', 'thongs', 'three', 'thro
ws', 'tiered', 'ties', 'tights', 'tiles', 'tires', 'to', 'toddler', 'toile
try', 'toner', 'tools', 'toothbrushes', 'top', 'toppers', 'tops', 'tote',
'totes', 'towel', 'towels', 'toy', 'toys', 'track', 'tracksuits', 'trailer
s', 'training', 'transportation', 'trash', 'travel', 'tray', 'treatments',
'trench', 'tricycles', 'trim', 'tripods', 'trunks', 'tshirt', 'tubs', 'tum
bler', 'tunic', 'turtleneck', 'tuxedo', 'tweezers', 'two', 'underwear', 'u
nits', 'up', 'ups', 'utensils', 'utility', 'vacuums', 'valentine', 'vapori
zers', 'vase', 'vases', 'vehicles', 'vest', 'vests', 'vhs', 'video', 'vint
age', 'vinyl', 'volleyball', 'wagons', 'walkers', 'wall', 'wallet', 'walle
ts', 'warmers', 'washcloths', 'washers', 'watch', 'watches', 'water', 'wax
ing', 'wheels', 'wide', 'wind', 'windbreaker', 'window', 'wine', 'wipes',
'women', 'woodcuts', 'woodwind', 'wool', 'work', 'wrap', 'wraps', 'wristle
t', 'writing', 'yarn', 'years', 'yoga', 'zines', 'zip', 'zipper']
==
==========================

In [127]:

```python
vectorizer = CountVectorizer()
vectorizer.fit(df_train['subcat_2'].values) # fit has to happen only on train data

# we use the fitted CountVectorizer to convert the text to vector
submission_subcat_22 = vectorizer.transform(test2['subcat_2'].values)


print("After vectorizations")
print(submission_subcat_22.shape)


print(vectorizer.get_feature_names())
print("="*100)
```

After vectorizations
(3460725, 953)
['100', '50', '75', 'above', 'accents', 'accessories', 'accessory', 'ace
o', 'action', 'activity', 'adapters', 'adventure', 'advertisement', 'afgha
n', 'air', 'albums', 'all', 'amplifiers', 'and', 'animal', 'animals', 'ani
mation', 'apparel', 'appliances', 'applicators', 'apron', 'area', 'art',
'arts', 'aspirators', 'asymmetrical', 'athletic', 'audio', 'automotive',
'baby', 'backpack', 'backpacks', 'badminton', 'bag', 'baggy', 'bags', 'bag
uette', 'bakeware', 'balls', 'band', 'bar', 'baseball', 'basic', 'basket',
'basketball', 'baskets', 'bass', 'bath', 'bathing', 'bathroom', 'batterie
s', 'beach', 'bead', 'beading', 'beads', 'bed', 'bedding', 'bedroom', 'bed
s', 'bedspreads', 'beer', 'belt', 'belts', 'beverage', 'bibles', 'bibs',
'bicycle', 'bike', 'binoculars', 'bins', 'biographies', 'biography', 'birt
hday', 'blanket', 'blankets', 'blazer', 'blazers', 'block', 'blouse', 'blo
uses', 'blu', 'blue', 'board', 'boards', 'boating', 'body', 'book', 'bookm
ark', 'books', 'booster', 'boot', 'boots', 'bottle', 'bottles', 'bottoms',
'bouncers', 'bouquets', 'bowl', 'bowling', 'bowls', 'box', 'boxes', 'boxin
g', 'boyfriend', 'boys', 'bracelet', 'bracelets', 'bras', 'brass', 'breast
ed', 'breastfeeding', 'brewing', 'briefcases', 'briefs', 'brooch', 'brushe
s', 'bubble', 'buckle', 'building', 'burning', 'business', 'butter', 'butt
on', 'cabinet', 'cabinets', 'cables', 'cabochon', 'caddies', 'cage', 'cak
e', 'calendar', 'calendars', 'calf', 'camcorders', 'camera', 'cameras', 'c
ami', 'camping', 'candle', 'candles', 'cape', 'capri', 'capris', 'caps',
'car', 'cardigan', 'cards', 'care', 'cargo', 'carpenter', 'carriers', 'car
t', 'carving', 'case', 'cases', 'casserole', 'casual', 'cd', 'cell', 'cent
ers', 'ceramic', 'chain', 'chair', 'change', 'changing', 'chargers', 'char
m', 'child', 'children', 'chinos', 'christian', 'christmas', 'classic', 'c
leaners', 'cleaning', 'cleansers', 'cleats', 'clock', 'clocks', 'clogs',
'closet', 'cloth', 'clothing', 'clubs', 'clutch', 'coaster', 'coasters',
'coats', 'coffee', 'collages', 'collar', 'collared', 'collectibles', 'colo
r', 'coloring', 'comforters', 'comic', 'comics', 'compact', 'competitive',
'components', 'conditioner', 'conditioners', 'connectivity', 'consoles',
'containers', 'control', 'convenience', 'cookbook', 'cookware', 'coolers',
'corduroys', 'corner', 'corset', 'cosmetic', 'costume', 'cotton', 'cover',
'coverlets', 'covers', 'cowl', 'cozy', 'cradles', 'crafting', 'crafts', 'c
ream', 'crewneck', 'crib', 'crochet', 'cropped', 'cross', 'crossbody', 'cu
ff', 'cultures', 'cup', 'custom', 'cut', 'cutlery', 'day', 'dead', 'deco
r', 'decorations', 'decorative', 'dehumidifiers', 'denim', 'design', 'desk
tops', 'devices', 'diaper', 'diapers', 'digital', 'dining', 'dinnerware',
'dish', 'dishes', 'dishwashers', 'disposable', 'disposals', 'dj', 'dogs',
'doll', 'dollhouse', 'dolls', 'doormats', 'doorstops', 'doorways', 'doubl
e', 'down', 'draft', 'draperies', 'drawers', 'drawings', 'dress', 'dresse
s', 'drives', 'drums', 'dryers', 'dusting', 'duvet', 'dvd', 'décor', 'earr
ings', 'easter', 'edge', 'education', 'educational', 'effects', 'electrica
l', 'electronic', 'electronics', 'embroidery', 'engineering', 'entertainer
s', 'entertaining', 'entertainment', 'enthusiast', 'ephemera', 'epilator
s', 'equipment', 'etchings', 'exterior', 'eyes', 'eyewear', 'fabric', 'fac
e', 'family', 'fans', 'fantasy', 'fashion', 'favors', 'feather', 'feedin
g', 'feet', 'felted', 'fi', 'fiction', 'field', 'figure', 'figures', 'figu
rine', 'figurines', 'film', 'filters', 'finding', 'fireplaces', 'fishing',
'fitness', 'fixture', 'flare', 'flash', 'flashes', 'flat', 'flats', 'flatw
are', 'fleece', 'floor', 'fluids', 'food', 'football', 'for', 'formal', 'f
our', 'fragrance', 'frame', 'frames', 'freezers', 'fresheners', 'friendl
y', 'front', 'full', 'furniture', 'gadget', 'gadgets', 'gag', 'game', 'gam
es', 'gaming', 'garage', 'garbage', 'garment', 'gates', 'gift', 'girls',
'given', 'glass', 'glassware', 'gloves', 'golf', 'gps', 'graphic', 'groomi
ng', 'guards', 'guest', 'guides', 'guitars', 'gyms', 'hair', 'halloween',
'halter', 'handbag', 'handkerchief', 'handmade', 'hands', 'hanging', 'hanu
kkah', 'harnesses', 'hat', 'hats', 'hawaiian', 'headphones', 'headsets',
'health', 'healthcare', 'heaters', 'hem', 'henley', 'highchairs', 'hikin
g', 'hip', 'historical', 'history', 'hobbies', 'hobo', 'hockey', 'holder',

'holders', 'holiday', 'home', 'hooded', 'hoodie', 'horror', 'house', 'household', 'housewares', 'how', 'human', 'humidifiers', 'humor', 'ice', 'illustrated', 'illustration', 'in', 'inflatable', 'ink', 'inserts', 'instructional', 'instrument', 'instruments', 'interior', 'international', 'invitations', 'ironing', 'irons', 'jacket', 'jackets', 'jean', 'jeans', 'jerseys', 'jewelry', 'joggers', 'journal', 'jumpers', 'just', 'karaoke', 'keyboards', 'keychain', 'khakis', 'kids', 'kitchen', 'kits', 'knee', 'knit', 'knitting', 'knives', 'label', 'lacrosse', 'lamps', 'lanyard', 'laptop', 'laptops', 'laundry', 'learning', 'leash', 'leashes', 'leather', 'leg', 'leggings', 'length', 'lenses', 'lifestyle', 'light', 'lighting', 'lights', 'lightweight', 'line', 'linen', 'linens', 'lingerie', 'links', 'lips', 'literature', 'lithographs', 'live', 'living', 'loafers', 'locks', 'loose', 'loss', 'lotions', 'lover', 'luggage', 'magic', 'magnet', 'magnets', 'makers', 'makeup', 'making', 'map', 'married', 'maternity', 'math', 'mats', 'mattress', 'maxi', 'media', 'medical', 'memoirs', 'men', 'merchandise', 'messenger', 'microphones', 'microwaves', 'mid', 'military', 'mini', 'miniature', 'mirror', 'mirrors', 'mixed', 'mlb', 'mma', 'mock', 'models', 'money', 'monitoring', 'monitors', 'mopping', 'motorcycle', 'mounts', 'mug', 'mules', 'music', 'nail', 'nails', 'nasal', 'nba', 'ncaa', 'neck', 'necklace', 'necklaces', 'necktie', 'needlepoint', 'netbooks', 'netting', 'networking', 'new', 'nfl', 'nhl', 'non', 'nonfiction', 'not', 'notebook', 'novelty', 'nursery', 'nutrition', 'of', 'office', 'oils', 'older', 'one', 'ones', 'ons', 'or', 'orchestra', 'organization', 'organizers', 'origami', 'ornaments', 'other', 'others', 'outdoor', 'outerwear', 'overalls', 'oxfords', 'pacifiers', 'pads', 'pails', 'paint', 'painting', 'paintings', 'palettes', 'pant', 'panties', 'pants', 'paper', 'papermaking', 'paperweights', 'parka', 'parts', 'party', 'patch', 'patchwork', 'patrick', 'patricks', 'patriotic', 'pattern', 'peacoat', 'peasant', 'pencil', 'pendant', 'pepper', 'percussion', 'performance', 'perms', 'personal', 'personalized', 'pet', 'phone', 'phones', 'photo', 'photographs', 'photography', 'piece', 'pieces', 'pilates', 'pillow', 'pillowcases', 'pillows', 'pin', 'pinback', 'pitcher', 'planning', 'planter', 'planters', 'plate', 'platter', 'play', 'playard', 'playards', 'players', 'playmats', 'pleat', 'pleated', 'plus', 'plush', 'poetry', 'politics', 'polo', 'poncho', 'porcelain', 'portable', 'positioners', 'postcard', 'poster', 'posters', 'pot', 'potties', 'pouch', 'powders', 'powersports', 'prams', 'prenatal', 'presentation', 'pretend', 'price', 'primitive', 'print', 'printers', 'printmaking', 'prints', 'products', 'protection', 'protectors', 'publications', 'puffer', 'pullover', 'pumps', 'purifiers', 'purse', 'purses', 'puzzle', 'puzzles', 'quilt', 'quilts', 'racks', 'racquets', 'radio', 'raincoat', 'rainwear', 'ray', 'recording', 'recycling', 'reference', 'refills', 'refrigerators', 'relaxed', 'relaxers', 'relief', 'religion', 'religious', 'remote', 'remover', 'replacement', 'ring', 'rings', 'room', 'rugby', 'rugs', 'safety', 'salt', 'sandals', 'satchel', 'scale', 'scalp', 'scanners', 'scarf', 'scarves', 'scents', 'school', 'sci', 'science', 'sciences', 'scifi', 'scoop', 'scooters', 'scrapbooking', 'screen', 'scrubs', 'sculptures', 'seasonal', 'seat', 'seats', 'security', 'service', 'serving', 'set', 'sets', 'sewing', 'shakers', 'shampoo', 'shampoos', 'shams', 'shawl', 'sheets', 'shelf', 'shelves', 'shipping', 'shirt', 'shirts', 'shoes', 'shoppers', 'shopping', 'shorts', 'shoulder', 'shrug', 'signs', 'skate', 'skateboard', 'skin', 'skinny', 'skins', 'skirt', 'skirts', 'skorts', 'sleep', 'sleeveless', 'slim', 'slip', 'slipcovers', 'slippers', 'small', 'smartphones', 'sneakers', 'snowboard', 'snowsuits', 'soaps', 'soccer', 'social', 'socks', 'softball', 'something', 'sound', 'souvenir', 'space', 'speakers', 'spirituality', 'sponges', 'sport', 'sports', 'st', 'stackers', 'stage', 'stained', 'stamps', 'standard', 'stationery', 'statues', 'steamers', 'step', 'stereos', 'sticker', 'stitch', 'stools', 'stoppers', 'storage', 'straight', 'straps', 'strategy', 'strength', 'stringed', 'strings', 'studio', 'stuffed', 'style', 'styling', 'subwoofers', 'sugar', 'suit', 'suits', 'sun', 'sunglasses', 'supplies', 'supports', 'surf', 'surveillance', 'swabs', 'sweat', 'sweater', 'sweatercoat', 'sweaters', 'sweats', 'sweatshirt', 'sweeping', 'swim', 'swimwear', 'swings', 's

```
ystems', 'table', 'tag', 'tank', 'tape', 'tapestries', 'tea', 'teaching',
'teacup', 'teapot', 'technology', 'teethers', 'teething', 'telephone', 'te
lescopes', 'television', 'televisions', 'tennis', 'tests', 'texturizers',
'thanksgiving', 'the', 'thermal', 'thermometers', 'thongs', 'three', 'thro
ws', 'tiered', 'ties', 'tights', 'tiles', 'tires', 'to', 'toddler', 'toile
try', 'toner', 'tools', 'toothbrushes', 'top', 'toppers', 'tops', 'tote',
'totes', 'towel', 'towels', 'toy', 'toys', 'track', 'tracksuits', 'trailer
s', 'training', 'transportation', 'trash', 'travel', 'tray', 'treatments',
'trench', 'tricycles', 'trim', 'tripods', 'trunks', 'tshirt', 'tubs', 'tum
bler', 'tunic', 'turtleneck', 'tuxedo', 'tweezers', 'two', 'underwear', 'u
nits', 'up', 'ups', 'utensils', 'utility', 'vacuums', 'valentine', 'vapori
zers', 'vase', 'vases', 'vehicles', 'vest', 'vests', 'vhs', 'video', 'vint
age', 'vinyl', 'volleyball', 'wagons', 'walkers', 'wall', 'wallet', 'walle
ts', 'warmers', 'washcloths', 'washers', 'watch', 'watches', 'water', 'wax
ing', 'wheels', 'wide', 'wind', 'windbreaker', 'window', 'wine', 'wipes',
'women', 'woodcuts', 'woodwind', 'wool', 'work', 'wrap', 'wraps', 'wristle
t', 'writing', 'yarn', 'years', 'yoga', 'zines', 'zip', 'zipper']
======================================================================
===========================
```

Vectorising text feature 'Item description'

In [55]:

```python
#for preprocessed_essays
from sklearn.feature_extraction.text import TfidfVectorizer
vectorizer = TfidfVectorizer(ngram_range=(1,2), min_df=10,max_features=5000)
vectorizer.fit(preprocessed_train_des)
X_train_itemdes = vectorizer.transform(preprocessed_train_des)
X_test_itemdes = vectorizer.transform(preprocessed_test_des)
```

In [56]:

```python
print("Shape of train matrix after one hot encodig ",X_train_itemdes.shape)
print("Shape of train matrix after one hot encodig ",X_test_itemdes.shape)
```

```
Shape of train matrix after one hot encodig  (1186028, 5000)
Shape of train matrix after one hot encodig  (296507, 5000)
```

Reducing number of feature vectors with SVD and checking variance

In [0]:

```python
from sklearn.decomposition import TruncatedSVD
svd = TruncatedSVD(n_components=2000, n_iter=5)
svd.fit(X_train_itemdes)
#Plotting the Cumulative Summation of the Explained Variance
plt.figure()
plt.plot(np.cumsum(svd.explained_variance_ratio_))
plt.xlabel('Number of Components')
plt.ylabel('Variance (%)') #for each component
plt.title('Pulsar Dataset Explained Variance')
plt.show()
```


In [0]:
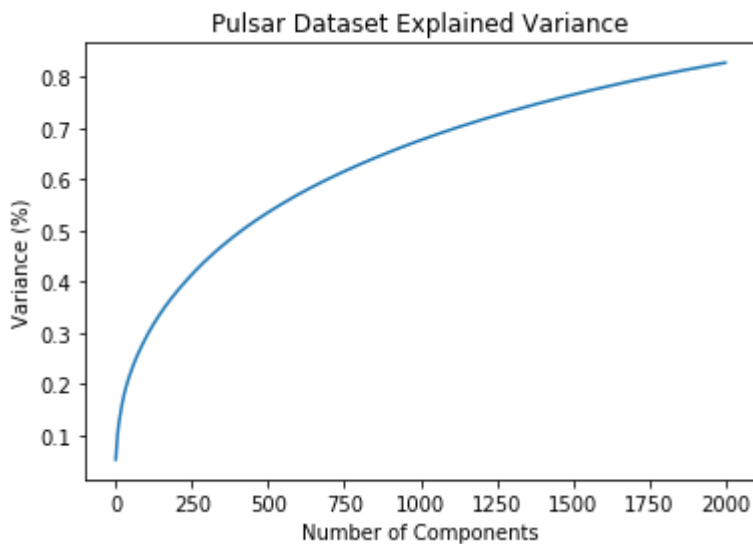
```python
best_n_components=2000
```

2000 components preserves about 80% of the information, so we will take 5000 components in our feature set to maximise variance

In [128]:

```python
#for preprocessed_essays
from sklearn.feature_extraction.text import TfidfVectorizer
vectorizer = TfidfVectorizer(ngram_range=(1,2), min_df=10,max_features=5000)
vectorizer.fit(preprocessed_train_des)
X_submission_itemdes2 = vectorizer.transform(preprocessed_test2)
print("Shape of train matrix after one hot encodig ",X_submission_itemdes2.shape)
```

```
Shape of train matrix after one hot encodig  (3460725, 5000)
```

Length of Item description

In [58]:

```python
X_train_des_wordcount = []
for i in tqdm(preprocessed_train_des):
    cnt_words =1
    for j in i:
        if (j==' '):
            cnt_words+=1
    X_train_des_wordcount.append(cnt_words)
```

```
100%|████████████████████████████████████████████████████████|
1186028/1186028 [00:10<00:00, 108861.29it/s]
```

In [59]:

```python
df_train['Number of words in item description']= X_train_des_wordcount
```

In [60]:

```python
X_test_des_wordcount = []
for i in tqdm(preprocessed_test_des):
    cnt_words =1
    for j in i:
        if (j==' '):
            cnt_words+=1
    X_test_des_wordcount.append(cnt_words)
```

```
100%|████████████████████████████████████████████████████████|
██| 296507/296507 [00:03<00:00, 97142.57it/s]
```

In [61]:

```python
df_test['Number of words in item description']= X_test_des_wordcount
```

In [129]:

```python
X_submission_des_wordcount = []
for i in tqdm(preprocessed_test2):
    cnt_words =1
    for j in i:
        if (j==' '):
            cnt_words+=1
    X_submission_des_wordcount.append(cnt_words)
```

```
100%|████████████████████████████████████████████████████████|
3460725/3460725 [00:29<00:00, 115856.61it/s]
```

In [130]:

```python
test2['Number of words in item description']= X_submission_des_wordcount
```

In [64]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()
# normalizer.fit(X_train['price'].values)
# this will rise an error Expected 2D array, got 1D array instead:
# array=[105.22 215.96  96.01 ... 368.98  80.53 709.67].
# Reshape your data either using
# array.reshape(-1, 1) if your data has a single feature
# array.reshape(1, -1)  if it contains a single sample.
normalizer.fit(df_train['Number of words in item description'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_train_words_des_norm = normalizer.transform(df_train['Number of words in item description'].values.reshape(-1,1))

X_test_words_des_norm = normalizer.transform(df_test['Number of words in item description'].values.reshape(-1,1))

print("After normalizations")
print(X_train_words_des_norm.shape, y_train.shape)

print(X_test_words_des_norm.shape, y_test.shape)
```

```
After normalizations
(1186028, 1) (1186028,)
(296507, 1) (296507,)
```

In [131]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()
# normalizer.fit(X_train['price'].values)
# this will rise an error Expected 2D array, got 1D array instead:
# array=[105.22 215.96  96.01 ... 368.98  80.53 709.67].
# Reshape your data either using
# array.reshape(-1, 1) if your data has a single feature
# array.reshape(1, -1)  if it contains a single sample.
normalizer.fit(df_train['Number of words in item description'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
submission_words_des_norm2 = normalizer.transform(test2['Number of words in item description'].values.reshape(-1,1))


print("After normalizations")
print(submission_words_des_norm2.shape)
```

```
After normalizations
(3460725, 1)
```

Sentiment score of an item in description

In [66]:

```python
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

import nltk
nltk.download('vader_lexicon')

sid = SentimentIntensityAnalyzer()

X_train_sentiment = [];
for sentence in tqdm(preprocessed_train_des):
    for_sentiment = sentence
    ss = sid.polarity_scores(for_sentiment)
    X_train_sentiment.append(ss)
```

```
[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\jksing\AppData\Roaming\nltk_data...
[nltk_data]    Package vader_lexicon is already up-to-date!
100%|███████████████████████████████████████████████████████
█| 1186028/1186028 [04:38<00:00, 4253.34it/s]
```

In [67]:

```python
negative=[]
neutral=[]
positive=[]
compounding=[]
for i in X_train_sentiment:

    for polarity,score in i.items():
        if(polarity=='neg'):
            negative.append(score)
        if(polarity=='neu'):
            neutral.append(score)
        if(polarity=='pos'):
            positive.append(score)
        if(polarity=='compound'):
            compounding.append(score)
```

In [68]:

```python
df_train['negative']=negative
df_train['neutral']=neutral
df_train['positive']=positive
df_train['compound']=compounding
```

In [69]:

```python
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

import nltk
nltk.download('vader_lexicon')

sid = SentimentIntensityAnalyzer()

X_test_sentiment = [];
for sentence in tqdm(preprocessed_test_des):
    for_sentiment = sentence
    ss = sid.polarity_scores(for_sentiment)
    X_test_sentiment.append(ss)
```

```
[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\jksing\AppData\Roaming\nltk_data...
[nltk_data]   Package vader_lexicon is already up-to-date!
100%|███████████████████████████████████████████████████████
███| 296507/296507 [01:10<00:00, 4214.33it/s]
```

In [70]:

```python
negative=[]
neutral=[]
positive=[]
compounding=[]
for i in X_test_sentiment:

    for polarity,score in i.items():
        if(polarity=='neg'):
            negative.append(score)
        if(polarity=='neu'):
            neutral.append(score)
        if(polarity=='pos'):
            positive.append(score)
        if(polarity=='compound'):
            compounding.append(score)
```

In [71]:

```python
df_test['negative']=negative
df_test['neutral']=neutral
df_test['positive']=positive
df_test['compound']=compounding
```

In [72]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

normalizer.fit(df_train['negative'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_train_neg_norm = normalizer.transform(df_train['negative'].values.reshape(-1,1))

X_test_neg_norm = normalizer.transform(df_test['negative'].values.reshape(-1,1))

print("After normalizations")
print(X_train_neg_norm.shape, y_train.shape)

print(X_test_neg_norm.shape, y_test.shape)
```

```
After normalizations
(1186028, 1) (1186028,)
(296507, 1) (296507,)
```

In [73]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

normalizer.fit(df_train['neutral'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_train_neu_norm = normalizer.transform(df_train['neutral'].values.reshape(-1,1))

X_test_neu_norm = normalizer.transform(df_test['neutral'].values.reshape(-1,1))

print("After normalizations")
print(X_train_neu_norm.shape, y_train.shape)

print(X_test_neu_norm.shape, y_test.shape)
```

```
After normalizations
(1186028, 1) (1186028,)
(296507, 1) (296507,)
```

In [74]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

normalizer.fit(df_train['positive'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_train_pos_norm = normalizer.transform(df_train['positive'].values.reshape(-1,1))

X_test_pos_norm = normalizer.transform(df_test['positive'].values.reshape(-1,1))

print("After normalizations")
print(X_train_pos_norm.shape, y_train.shape)

print(X_test_pos_norm.shape, y_test.shape)
```

```
After normalizations
(1186028, 1) (1186028,)
(296507, 1) (296507,)
```

In [75]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

normalizer.fit(df_train['compound'].values.reshape(-1,1))

#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))
X_train_com_norm = normalizer.transform(df_train['compound'].values.reshape(-1,1))

X_test_com_norm = normalizer.transform(df_test['compound'].values.reshape(-1,1))

print("After normalizations")
print(X_train_com_norm.shape, y_train.shape)

print(X_test_com_norm.shape, y_test.shape)
```

```
After normalizations
(1186028, 1) (1186028,)
(296507, 1) (296507,)
```

In [132]:

```python
import nltk
from nltk.sentiment.vader import SentimentIntensityAnalyzer

import nltk
nltk.download('vader_lexicon')

sid = SentimentIntensityAnalyzer()

submission_sentiment = [];
for sentence in tqdm(preprocessed_test2):
    for_sentiment = sentence
    ss = sid.polarity_scores(for_sentiment)
    submission_sentiment.append(ss)
```

```
[nltk_data] Downloading package vader_lexicon to
[nltk_data]     C:\Users\jksing\AppData\Roaming\nltk_data...
[nltk_data]   Package vader_lexicon is already up-to-date!
100%|████████████████████████████████████████████████████████
▌| 3460725/3460725 [13:41<00:00, 4214.14it/s]
```

In [133]:

```python
negative=[]
neutral=[]
positive=[]
compounding=[]
for i in submission_sentiment:

    for polarity,score in i.items():
        if(polarity=='neg'):
            negative.append(score)
        if(polarity=='neu'):
            neutral.append(score)
        if(polarity=='pos'):
            positive.append(score)
        if(polarity=='compound'):
            compounding.append(score)
```

In [134]:

```python
test2['negative']=negative
test2['neutral']=neutral
test2['positive']=positive
test2['compound']=compounding
```

In [135]:

```python
from sklearn.preprocessing import Normalizer
normalizer = Normalizer()

normalizer.fit(df_train['negative'].values.reshape(-1,1))
sub_neg_norm2 = normalizer.transform(test2['negative'].values.reshape(-1,1))
normalizer.fit(df_train['neutral'].values.reshape(-1,1))
sub_neu_norm2 = normalizer.transform(test2['neutral'].values.reshape(-1,1))
normalizer.fit(df_train['positive'].values.reshape(-1,1))

sub_pos_norm2 = normalizer.transform(test2['positive'].values.reshape(-1,1))
normalizer.fit(df_train['compound'].values.reshape(-1,1))
#X_train_price_norm = normalizer.transform(X_train['price'].values.reshape(-1,1))


sub_com_norm2 = normalizer.transform(test2['compound'].values.reshape(-1,1))



print("After normalizations")
print(sub_neg_norm2.shape)
```

```
After normalizations
(3460725, 1)
```

In [81]:

```python
from scipy.sparse import csr_matrix
```

In [82]:

```python
 X_dummies = csr_matrix(pd.get_dummies(df_train[['item_condition_id', 'shipping']],
                                       sparse=True).values)
```

In [83]:

```python
 X_test_dummies = csr_matrix(pd.get_dummies(df_test[['item_condition_id', 'shipping']],
                                            sparse=True).values)
```

In [136]:

```python
submission_dummies2 = csr_matrix(pd.get_dummies(test2[['item_condition_id', 'shipping'
]],
                                            sparse=True).values)
```

Merging all features in a matrix

In [85]:

```python
# merge two sparse matrices: https://stackoverflow.com/a/19710648/4084039
from scipy.sparse import hstack
```

In [86]:

```
X_train = hstack((train_name,train_brandname, train_gen,train_subcat1,train_subcat2,X_t
rain_itemdes,X_dummies,X_train_words_des_norm,X_train_neg_norm,X_train_neu_norm,X_train
_pos_norm,X_train_com_norm)).tocsr()

X_test = hstack((test_name,test_brandname,test_gen,test_subcat1,test_subcat2,X_test_ite
mdes,X_test_dummies,X_test_words_des_norm,X_test_neg_norm,X_test_neu_norm,X_test_pos_no
rm,X_test_com_norm)).tocsr()

print("Final Data matrix")
print(X_train.shape, y_train.shape)

print(X_test.shape, y_test.shape)
print("="*100)
```

```
Final Data matrix
(1186028, 26870) (1186028,)
(296507, 26870) (296507,)
========================================================================
==========================
```

In [137]:

```
submission2 = hstack((submission_name2,submission_brand_name2, submission_general_cat2,
submission_subcat_12,submission_subcat_22,X_submission_itemdes2,submission_dummies2,sub
mission_words_des_norm2,sub_neg_norm2,sub_neu_norm2,sub_pos_norm2,sub_com_norm2)).tocsr
()


print("Final Data matrix")
print(submission2.shape)
```

```
Final Data matrix
(3460725, 26870)
```

Ridge Regression

In [88]:

```
from sklearn.linear_model import Ridge, LogisticRegression
from sklearn.metrics import mean_squared_error
from sklearn.metrics import mean_absolute_error
```

In [0]:

```python
from sklearn.linear_model import LinearRegression
from sklearn.linear_model import Ridge
#from sklearn import linear_model
from sklearn.model_selection import GridSearchCV
parameters = {"alpha":[0.00000001,0.00001,0.0001,0.001,0.01,0.1,0,1,10,100,1000,10000,100000]}
ridgeReg = Ridge(solver = "lsqr", fit_intercept=False)
lr_reg = GridSearchCV(ridgeReg,param_grid =parameters,n_jobs=-1)
lr_reg.fit(X_train, y_train)
```

Out[0]:

```
GridSearchCV(cv='warn', error_score='raise-deprecating',
            estimator=Ridge(alpha=1.0, copy_X=True, fit_intercept=False,
                            max_iter=None, normalize=False, random_state=
None,
                            solver='lsqr', tol=0.001),
            iid='warn', n_jobs=-1,
            param_grid={'alpha': [1e-08, 1e-05, 0.0001, 0.001, 0.01, 0.1,
0, 1,
                                10, 100, 1000, 10000, 100000]},
            pre_dispatch='2*n_jobs', refit=True, return_train_score=Fals
e,
            scoring=None, verbose=0)
```

In [0]:

```python
lr_reg.best_params_
```

Out[0]:

```
{'alpha': 1}
```

In [0]:

```python
ridgeReg = Ridge(alpha=1,solver = "lsqr", fit_intercept=False )
ridgeReg.fit(X_train, y_train)
y_pred = ridgeReg.predict(X_test)
```

In [0]:

```python
from sklearn.metrics import mean_squared_error
```

In [0]:

```python
ridge_RMSLE = np.sqrt(mean_squared_error(y_test, y_pred))
print(' Fold %02d Ridge RMSLE: ', ridge_RMSLE)
```

```
 Fold %02d Ridge RMSLE:   0.488133669363245
```

In [138]:

```python
ridgeReg = Ridge(alpha=1,solver = "lsqr", fit_intercept=False )
ridgeReg.fit(X_train, y_train)
predridge2 = ridgeReg.predict(submission2)
```

Light GBM Regressor

In [0]:

```
pip install lightgbm
```

Requirement already satisfied: lightgbm in /usr/local/lib/python3.6/dist-p
ackages (2.2.3)
Requirement already satisfied: scikit-learn in /usr/local/lib/python3.6/di
st-packages (from lightgbm) (0.21.3)
Requirement already satisfied: numpy in /usr/local/lib/python3.6/dist-pack
ages (from lightgbm) (1.17.4)
Requirement already satisfied: scipy in /usr/local/lib/python3.6/dist-pack
ages (from lightgbm) (1.3.2)
Requirement already satisfied: joblib>=0.11 in /usr/local/lib/python3.6/di
st-packages (from scikit-learn->lightgbm) (0.14.0)

In [90]:

```
from lightgbm import LGBMRegressor
```

In [0]:

```python
from lightgbm import LGBMRegressor
gridParams = {
    'learning_rate': [ 0.1,0.2,0.3,0.4,0.5],
    'n_estimators': [100,150, 200,250,300,400,500],
    'num_leaves': [20,30,63,80,100,120],
    'boosting_type' : ['gbdt'],
    'max_depth' : [2,3,4,5,6,7,8]
}
lgbm_params ={'subsample': 0.9, 'colsample_bytree': 0.8, 'min_child_samples': 50, 'obje
ctive': 'regression'
        }
model = LGBMRegressor(**lgbm_params)
# Create the grid
grid = GridSearchCV(model, gridParams, verbose=1, cv=3, n_jobs=-1)
# Run the grid
grid.fit(X_train, y_train,

        early_stopping_rounds=100,
        verbose=True)

print('Best parameters found by grid search are:', grid.best_params_)
print('Best score found by grid search is:', grid.best_score_)
```

```
Fitting 3 folds for each of 1470 candidates, totalling 4410 fits

[Parallel(n_jobs=-1)]: Using backend LokyBackend with 16 concurrent worker
s.
[Parallel(n_jobs=-1)]: Done   18 tasks       | elapsed:   3.5min
[Parallel(n_jobs=-1)]: Done  168 tasks       | elapsed:  37.4min
[Parallel(n_jobs=-1)]: Done  418 tasks       | elapsed: 115.3min
[Parallel(n_jobs=-1)]: Done  768 tasks       | elapsed: 267.2min
[Parallel(n_jobs=-1)]: Done 1218 tasks       | elapsed: 411.8min
[Parallel(n_jobs=-1)]: Done 1768 tasks       | elapsed: 647.1min
[Parallel(n_jobs=-1)]: Done 2418 tasks       | elapsed: 851.5min
[Parallel(n_jobs=-1)]: Done 3168 tasks       | elapsed: 1113.9min
[Parallel(n_jobs=-1)]: Done 4018 tasks       | elapsed: 1418.5min
[Parallel(n_jobs=-1)]: Done 4410 out of 4410 | elapsed: 1590.6min finished
```

```
[1]       valid_0's rmse: 0.681361
Training until validation scores don't improve for 100 rounds
[2]       valid_0's rmse: 0.649366
[3]       valid_0's rmse: 0.633062
[4]       valid_0's rmse: 0.618051
[5]       valid_0's rmse: 0.609167
[6]       valid_0's rmse: 0.602525
[7]       valid_0's rmse: 0.597745
[8]       valid_0's rmse: 0.593077
[9]       valid_0's rmse: 0.588714
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[407]    valid_0's rmse: 0.472798
[408]    valid_0's rmse: 0.472724
[409]    valid_0's rmse: 0.472686
[410]    valid_0's rmse: 0.472618
[411]    valid_0's rmse: 0.472571
[412]    valid_0's rmse: 0.472543
[413]    valid_0's rmse: 0.472489
[414]    valid_0's rmse: 0.472444
[415]    valid_0's rmse: 0.47241
[416]    valid_0's rmse: 0.472392
[417]    valid_0's rmse: 0.472347
[418]    valid_0's rmse: 0.472238
[419]    valid_0's rmse: 0.472221
[420]    valid_0's rmse: 0.472144
[421]    valid_0's rmse: 0.472109
[422]    valid_0's rmse: 0.472047
[423]    valid_0's rmse: 0.472017
[424]    valid_0's rmse: 0.471987
[425]    valid_0's rmse: 0.471949
[426]    valid_0's rmse: 0.471889
```

```
[427]    valid_0's rmse: 0.471829
[428]    valid_0's rmse: 0.471813
[429]    valid_0's rmse: 0.471787
[430]    valid_0's rmse: 0.471758
[431]    valid_0's rmse: 0.471741
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[433]    valid_0's rmse: 0.471698
[434]    valid_0's rmse: 0.471675
[435]    valid_0's rmse: 0.471637
[436]    valid_0's rmse: 0.471583
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[442]    valid_0's rmse: 0.471361
[443]    valid_0's rmse: 0.47134
[444]    valid_0's rmse: 0.471134
[445]    valid_0's rmse: 0.471077
[446]    valid_0's rmse: 0.47102
[447]    valid_0's rmse: 0.470992
[448]    valid_0's rmse: 0.470962
[449]    valid_0's rmse: 0.470936
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[460]    valid_0's rmse: 0.470601
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[467]    valid_0's rmse: 0.470286
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[470]    valid_0's rmse: 0.470196
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[473]    valid_0's rmse: 0.470098
[474]    valid_0's rmse: 0.470073
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[476]    valid_0's rmse: 0.470016
[477]    valid_0's rmse: 0.469983
[478]    valid_0's rmse: 0.469945
[479]    valid_0's rmse: 0.469929
[480]    valid_0's rmse: 0.469901
[481]    valid_0's rmse: 0.469838
[482]    valid_0's rmse: 0.469811
[483]    valid_0's rmse: 0.469725
[484]    valid_0's rmse: 0.469679
[485]    valid_0's rmse: 0.469638
[486]    valid_0's rmse: 0.469571
[487]    valid_0's rmse: 0.469512
```

```
[488]    valid_0's rmse: 0.469453
[489]    valid_0's rmse: 0.469408
[490]    valid_0's rmse: 0.469374
[491]    valid_0's rmse: 0.469354
[492]    valid_0's rmse: 0.46933
[493]    valid_0's rmse: 0.469306
[494]    valid_0's rmse: 0.469296
[495]    valid_0's rmse: 0.469246
[496]    valid_0's rmse: 0.469234
[497]    valid_0's rmse: 0.469204
[498]    valid_0's rmse: 0.469182
[499]    valid_0's rmse: 0.469111
[500]    valid_0's rmse: 0.469072
Did not meet early stopping. Best iteration is:
[500]    valid_0's rmse: 0.469072
Best parameters found by grid search are: {'boosting_type': 'gbdt', 'learn
ing_rate': 0.5, 'max_depth': 8, 'n_estimators': 500, 'num_leaves': 80}
Best score found by grid search is: 0.5995288112621514
```

In [0]:

```
print('Best parameters found by grid search are:', grid.best_params_)
print('Best score found by grid search is:', grid.best_score_)
```

```
Best parameters found by grid search are: {'boosting_type': 'gbdt', 'learn
ing_rate': 0.5, 'max_depth': 8, 'n_estimators': 500, 'num_leaves': 80}
Best score found by grid search is: 0.5995288112621514
```

In [0]:

```python
lgbm_params ={'subsample': 0.9, 'colsample_bytree': 0.8, 'min_child_samples': 50, 'obje
ctive': 'regression','boosting_type': 'gbdt','learning_rate': 0.5,'max_depth': 8,'n_est
imators': 500,'num_leaves': 80,
       }
model = LGBMRegressor(**lgbm_params)
model.fit(X_train, y_train,


        early_stopping_rounds=100,
        verbose=True)

print('Generating submission...')

preds2 = model.predict(X_test)
```

```
[1]     valid_0's rmse: 0.681366
Training until validation scores don't improve for 100 rounds.
[2]     valid_0's rmse: 0.649334
[3]     valid_0's rmse: 0.633044
[4]     valid_0's rmse: 0.618043
[5]     valid_0's rmse: 0.60918
[6]     valid_0's rmse: 0.602547
[7]     valid_0's rmse: 0.59777
[8]     valid_0's rmse: 0.59308
[9]     valid_0's rmse: 0.588865
[10]    valid_0's rmse: 0.585563
[11]    valid_0's rmse: 0.582236
[12]    valid_0's rmse: 0.578915
[13]    valid_0's rmse: 0.576117
[14]    valid_0's rmse: 0.573994
[15]    valid_0's rmse: 0.571908
[16]    valid_0's rmse: 0.569244
[17]    valid_0's rmse: 0.567149
[18]    valid_0's rmse: 0.564249
[19]    valid_0's rmse: 0.561809
[20]    valid_0's rmse: 0.560012
[21]    valid_0's rmse: 0.557506
[22]    valid_0's rmse: 0.556007
[23]    valid_0's rmse: 0.554475
[24]    valid_0's rmse: 0.552394
[25]    valid_0's rmse: 0.550636
[26]    valid_0's rmse: 0.548789
[27]    valid_0's rmse: 0.547678
[28]    valid_0's rmse: 0.546431
[29]    valid_0's rmse: 0.544908
[30]    valid_0's rmse: 0.543818
[31]    valid_0's rmse: 0.54282
[32]    valid_0's rmse: 0.541996
[33]    valid_0's rmse: 0.540552
[34]    valid_0's rmse: 0.539386
[35]    valid_0's rmse: 0.538418
[36]    valid_0's rmse: 0.537549
[37]    valid_0's rmse: 0.536727
[38]    valid_0's rmse: 0.535974
[39]    valid_0's rmse: 0.534984
[40]    valid_0's rmse: 0.534232
[41]    valid_0's rmse: 0.53351
[42]    valid_0's rmse: 0.532874
[43]    valid_0's rmse: 0.532199
[44]    valid_0's rmse: 0.531506
[45]    valid_0's rmse: 0.53092
[46]    valid_0's rmse: 0.530228
[47]    valid_0's rmse: 0.529573
[48]    valid_0's rmse: 0.528996
[49]    valid_0's rmse: 0.528431
[50]    valid_0's rmse: 0.527875
[51]    valid_0's rmse: 0.527274
[52]    valid_0's rmse: 0.526577
[53]    valid_0's rmse: 0.526014
[54]    valid_0's rmse: 0.525243
[55]    valid_0's rmse: 0.524907
[56]    valid_0's rmse: 0.524507
[57]    valid_0's rmse: 0.524018
[58]    valid_0's rmse: 0.523431
[59]    valid_0's rmse: 0.522957
[60]    valid_0's rmse: 0.522435
```

```
[61]     valid_0's rmse: 0.521926
[62]     valid_0's rmse: 0.521202
[63]     valid_0's rmse: 0.520684
[64]     valid_0's rmse: 0.520206
[65]     valid_0's rmse: 0.519858
[66]     valid_0's rmse: 0.519465
[67]     valid_0's rmse: 0.519
[68]     valid_0's rmse: 0.518615
[69]     valid_0's rmse: 0.518211
[70]     valid_0's rmse: 0.517819
[71]     valid_0's rmse: 0.516636
[72]     valid_0's rmse: 0.515823
[73]     valid_0's rmse: 0.5155
[74]     valid_0's rmse: 0.515191
[75]     valid_0's rmse: 0.514811
[76]     valid_0's rmse: 0.514442
[77]     valid_0's rmse: 0.514166
[78]     valid_0's rmse: 0.513525
[79]     valid_0's rmse: 0.513195
[80]     valid_0's rmse: 0.512771
[81]     valid_0's rmse: 0.512494
[82]     valid_0's rmse: 0.512157
[83]     valid_0's rmse: 0.511827
[84]     valid_0's rmse: 0.511535
[85]     valid_0's rmse: 0.511223
[86]     valid_0's rmse: 0.510952
[87]     valid_0's rmse: 0.510694
[88]     valid_0's rmse: 0.510439
[89]     valid_0's rmse: 0.510244
[90]     valid_0's rmse: 0.509901
[91]     valid_0's rmse: 0.509674
[92]     valid_0's rmse: 0.509442
[93]     valid_0's rmse: 0.50913
[94]     valid_0's rmse: 0.508681
[95]     valid_0's rmse: 0.508402
[96]     valid_0's rmse: 0.507924
[97]     valid_0's rmse: 0.507676
[98]     valid_0's rmse: 0.507346
[99]     valid_0's rmse: 0.506796
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[102]    valid_0's rmse: 0.505949
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[118]    valid_0's rmse: 0.501837
[119]    valid_0's rmse: 0.501512
[120]    valid_0's rmse: 0.5013
[121]    valid_0's rmse: 0.501066
```

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[122]    valid_0's rmse: 0.500861
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[182]    valid_0's rmse: 0.490416
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[305]    valid_0's rmse: 0.478535
[306]    valid_0's rmse: 0.478408
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[363]    valid_0's rmse: 0.474466
[364]    valid_0's rmse: 0.474445
[365]    valid_0's rmse: 0.474367
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[424]    valid_0's rmse: 0.471977
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[453]    valid_0's rmse: 0.470753
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[482]    valid_0's rmse: 0.469639
[483]    valid_0's rmse: 0.469619
[484]    valid_0's rmse: 0.469517
[485]    valid_0's rmse: 0.469464
[486]    valid_0's rmse: 0.469443
[487]    valid_0's rmse: 0.46941
```

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[488]    valid_0's rmse: 0.469404
[489]    valid_0's rmse: 0.469388
[490]    valid_0's rmse: 0.46936
[491]    valid_0's rmse: 0.469316
[492]    valid_0's rmse: 0.469277
[493]    valid_0's rmse: 0.469262
[494]    valid_0's rmse: 0.469226
[495]    valid_0's rmse: 0.469189
[496]    valid_0's rmse: 0.469162
[497]    valid_0's rmse: 0.469146
[498]    valid_0's rmse: 0.469129
[499]    valid_0's rmse: 0.469121
[500]    valid_0's rmse: 0.469084
Did not meet early stopping. Best iteration is:
[500]    valid_0's rmse: 0.469084
Generating submission...
```

In [0]:

```python
lgbm_RMSLE = np.sqrt(mean_squared_error(y_test, preds2))
print(' Fold %02d Ridge RMSLE: ', lgbm_RMSLE)
```

```
  Fold %02d Ridge RMSLE:  0.46908439521952755
```

In [139]:

```python
lgbm_params ={'subsample': 0.9, 'colsample_bytree': 0.8, 'min_child_samples': 50, 'obje
ctive': 'regression','boosting_type': 'gbdt','learning_rate': 0.5,'max_depth': 8,'n_est
imators': 500,'num_leaves': 80
        }
model = LGBMRegressor(**lgbm_params)
model.fit(X_train, y_train,


        early_stopping_rounds=100,
        verbose=True)

print('Generating submission...')

predlgb2 = model.predict(submission2)
```

```
[1]      valid_0's rmse: 0.681361
Training until validation scores don't improve for 100 rounds
[2]      valid_0's rmse: 0.649366
[3]      valid_0's rmse: 0.633062
[4]      valid_0's rmse: 0.618051
[5]      valid_0's rmse: 0.609167
[6]      valid_0's rmse: 0.602525
[7]      valid_0's rmse: 0.597745
[8]      valid_0's rmse: 0.593077
[9]      valid_0's rmse: 0.588714
[10]     valid_0's rmse: 0.585425
[11]     valid_0's rmse: 0.581771
[12]     valid_0's rmse: 0.578655
[13]     valid_0's rmse: 0.576088
[14]     valid_0's rmse: 0.57387
[15]     valid_0's rmse: 0.571424
[16]     valid_0's rmse: 0.56918
[17]     valid_0's rmse: 0.566815
[18]     valid_0's rmse: 0.564157
[19]     valid_0's rmse: 0.561971
[20]     valid_0's rmse: 0.560374
[21]     valid_0's rmse: 0.558008
[22]     valid_0's rmse: 0.556481
[23]     valid_0's rmse: 0.555073
[24]     valid_0's rmse: 0.553517
[25]     valid_0's rmse: 0.551777
[26]     valid_0's rmse: 0.55015
[27]     valid_0's rmse: 0.548716
[28]     valid_0's rmse: 0.547678
[29]     valid_0's rmse: 0.546301
[30]     valid_0's rmse: 0.545144
[31]     valid_0's rmse: 0.544177
[32]     valid_0's rmse: 0.543189
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[34]     valid_0's rmse: 0.539685
[35]     valid_0's rmse: 0.538786
[36]     valid_0's rmse: 0.537876
[37]     valid_0's rmse: 0.536994
[38]     valid_0's rmse: 0.535987
[39]     valid_0's rmse: 0.53517
[40]     valid_0's rmse: 0.534365
[41]     valid_0's rmse: 0.533633
[42]     valid_0's rmse: 0.532743
[43]     valid_0's rmse: 0.532018
[44]     valid_0's rmse: 0.531466
[45]     valid_0's rmse: 0.530824
[46]     valid_0's rmse: 0.530237
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[48]     valid_0's rmse: 0.52912
[49]     valid_0's rmse: 0.528554
[50]     valid_0's rmse: 0.528065
[51]     valid_0's rmse: 0.527551
[52]     valid_0's rmse: 0.525898
[53]     valid_0's rmse: 0.525144
[54]     valid_0's rmse: 0.524589
[55]     valid_0's rmse: 0.524146
[56]     valid_0's rmse: 0.52358
[57]     valid_0's rmse: 0.52313
[58]     valid_0's rmse: 0.522659
[59]     valid_0's rmse: 0.522138
[60]     valid_0's rmse: 0.521635
```

```
[61]     valid_0's rmse: 0.520955
[62]     valid_0's rmse: 0.520439
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[104]    valid_0's rmse: 0.505405
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[288]    valid_0's rmse: 0.480079
[289]    valid_0's rmse: 0.480009
[290]    valid_0's rmse: 0.479951
[291]    valid_0's rmse: 0.479889
[292]    valid_0's rmse: 0.479824
[293]    valid_0's rmse: 0.479789
[294]    valid_0's rmse: 0.479738
[295]    valid_0's rmse: 0.47966
[296]    valid_0's rmse: 0.479603
[297]    valid_0's rmse: 0.479537
[298]    valid_0's rmse: 0.479506
[299]    valid_0's rmse: 0.479432
[300]    valid_0's rmse: 0.479373
[301]    valid_0's rmse: 0.479309
[302]    valid_0's rmse: 0.479268
[303]    valid_0's rmse: 0.479215
[304]    valid_0's rmse: 0.479168
```

```
[305]    valid_0's rmse: 0.478728
[306]    valid_0's rmse: 0.478643
[307]    valid_0's rmse: 0.478572
[308]    valid_0's rmse: 0.478491
[309]    valid_0's rmse: 0.478454
[310]    valid_0's rmse: 0.478398
[311]    valid_0's rmse: 0.478312
[312]    valid_0's rmse: 0.478276
[313]    valid_0's rmse: 0.478213
[314]    valid_0's rmse: 0.478138
[315]    valid_0's rmse: 0.4781
[316]    valid_0's rmse: 0.478048
[317]    valid_0's rmse: 0.478003
[318]    valid_0's rmse: 0.477928
[319]    valid_0's rmse: 0.477881
[320]    valid_0's rmse: 0.477829
[321]    valid_0's rmse: 0.47778
[322]    valid_0's rmse: 0.477642
[323]    valid_0's rmse: 0.477595
[324]    valid_0's rmse: 0.477553
[325]    valid_0's rmse: 0.477524
[326]    valid_0's rmse: 0.477485
[327]    valid_0's rmse: 0.477447
[328]    valid_0's rmse: 0.477388
[329]    valid_0's rmse: 0.477358
[330]    valid_0's rmse: 0.477298
[331]    valid_0's rmse: 0.477256
[332]    valid_0's rmse: 0.477222
[333]    valid_0's rmse: 0.477171
[334]    valid_0's rmse: 0.477126
[335]    valid_0's rmse: 0.47708
[336]    valid_0's rmse: 0.477035
[337]    valid_0's rmse: 0.476994
[338]    valid_0's rmse: 0.476958
[339]    valid_0's rmse: 0.476867
[340]    valid_0's rmse: 0.47683
[341]    valid_0's rmse: 0.476801
[342]    valid_0's rmse: 0.476776
[343]    valid_0's rmse: 0.476713
[344]    valid_0's rmse: 0.476621
[345]    valid_0's rmse: 0.476592
[346]    valid_0's rmse: 0.476506
[347]    valid_0's rmse: 0.476479
[348]    valid_0's rmse: 0.476412
[349]    valid_0's rmse: 0.476363
[350]    valid_0's rmse: 0.47634
[351]    valid_0's rmse: 0.476311
[352]    valid_0's rmse: 0.476272
[353]    valid_0's rmse: 0.476195
[354]    valid_0's rmse: 0.476164
[355]    valid_0's rmse: 0.476089
[356]    valid_0's rmse: 0.476047
[357]    valid_0's rmse: 0.476001
[358]    valid_0's rmse: 0.475957
[359]    valid_0's rmse: 0.475903
[360]    valid_0's rmse: 0.475848
[361]    valid_0's rmse: 0.475797
[362]    valid_0's rmse: 0.47573
[363]    valid_0's rmse: 0.475682
[364]    valid_0's rmse: 0.475627
[365]    valid_0's rmse: 0.475584
```

```
[366]    valid_0's rmse: 0.475495
[367]    valid_0's rmse: 0.475408
[368]    valid_0's rmse: 0.475377
[369]    valid_0's rmse: 0.475349
[370]    valid_0's rmse: 0.475309
[371]    valid_0's rmse: 0.475268
[372]    valid_0's rmse: 0.47513
[373]    valid_0's rmse: 0.474718
[374]    valid_0's rmse: 0.474593
[375]    valid_0's rmse: 0.474269
[376]    valid_0's rmse: 0.474193
[377]    valid_0's rmse: 0.474155
[378]    valid_0's rmse: 0.474065
[379]    valid_0's rmse: 0.474009
[380]    valid_0's rmse: 0.473963
[381]    valid_0's rmse: 0.473917
[382]    valid_0's rmse: 0.473875
[383]    valid_0's rmse: 0.473794
[384]    valid_0's rmse: 0.473762
[385]    valid_0's rmse: 0.473707
[386]    valid_0's rmse: 0.473671
[387]    valid_0's rmse: 0.473654
[388]    valid_0's rmse: 0.473628
[389]    valid_0's rmse: 0.473579
[390]    valid_0's rmse: 0.473544
[391]    valid_0's rmse: 0.473523
[392]    valid_0's rmse: 0.473494
[393]    valid_0's rmse: 0.47346
[394]    valid_0's rmse: 0.473399
[395]    valid_0's rmse: 0.473354
[396]    valid_0's rmse: 0.473315
[397]    valid_0's rmse: 0.473276
[398]    valid_0's rmse: 0.473257
[399]    valid_0's rmse: 0.47322
[400]    valid_0's rmse: 0.4732
[401]    valid_0's rmse: 0.473176
[402]    valid_0's rmse: 0.473062
[403]    valid_0's rmse: 0.472941
[404]    valid_0's rmse: 0.472913
[405]    valid_0's rmse: 0.472875
[406]    valid_0's rmse: 0.472818
[407]    valid_0's rmse: 0.472798
[408]    valid_0's rmse: 0.472724
[409]    valid_0's rmse: 0.472686
[410]    valid_0's rmse: 0.472618
[411]    valid_0's rmse: 0.472571
[412]    valid_0's rmse: 0.472543
[413]    valid_0's rmse: 0.472489
[414]    valid_0's rmse: 0.472444
[415]    valid_0's rmse: 0.47241
[416]    valid_0's rmse: 0.472392
[417]    valid_0's rmse: 0.472347
[418]    valid_0's rmse: 0.472238
[419]    valid_0's rmse: 0.472221
[420]    valid_0's rmse: 0.472144
[421]    valid_0's rmse: 0.472109
[422]    valid_0's rmse: 0.472047
[423]    valid_0's rmse: 0.472017
[424]    valid_0's rmse: 0.471987
[425]    valid_0's rmse: 0.471949
[426]    valid_0's rmse: 0.471889
```

```
[427]    valid_0's rmse: 0.471829
[428]    valid_0's rmse: 0.471813
[429]    valid_0's rmse: 0.471787
[430]    valid_0's rmse: 0.471758
[431]    valid_0's rmse: 0.471741
[432]    valid_0's rmse: 0.471723
[433]    valid_0's rmse: 0.471698
[434]    valid_0's rmse: 0.471675
[435]    valid_0's rmse: 0.471637
[436]    valid_0's rmse: 0.471583
[437]    valid_0's rmse: 0.471554
[438]    valid_0's rmse: 0.471494
[439]    valid_0's rmse: 0.471458
[440]    valid_0's rmse: 0.471409
[441]    valid_0's rmse: 0.471384
[442]    valid_0's rmse: 0.471361
[443]    valid_0's rmse: 0.47134
[444]    valid_0's rmse: 0.471134
[445]    valid_0's rmse: 0.471077
[446]    valid_0's rmse: 0.47102
[447]    valid_0's rmse: 0.470992
[448]    valid_0's rmse: 0.470962
[449]    valid_0's rmse: 0.470936
[450]    valid_0's rmse: 0.470917
[451]    valid_0's rmse: 0.470893
[452]    valid_0's rmse: 0.470859
[453]    valid_0's rmse: 0.470833
[454]    valid_0's rmse: 0.470778
[455]    valid_0's rmse: 0.470744
[456]    valid_0's rmse: 0.470716
[457]    valid_0's rmse: 0.470696
[458]    valid_0's rmse: 0.470661
[459]    valid_0's rmse: 0.47063
[460]    valid_0's rmse: 0.470601
[461]    valid_0's rmse: 0.470594
[462]    valid_0's rmse: 0.470491
[463]    valid_0's rmse: 0.470469
[464]    valid_0's rmse: 0.470424
[465]    valid_0's rmse: 0.470378
[466]    valid_0's rmse: 0.470338
[467]    valid_0's rmse: 0.470286
[468]    valid_0's rmse: 0.470271
[469]    valid_0's rmse: 0.470243
[470]    valid_0's rmse: 0.470196
[471]    valid_0's rmse: 0.47013
[472]    valid_0's rmse: 0.470114
[473]    valid_0's rmse: 0.470098
[474]    valid_0's rmse: 0.470073
[475]    valid_0's rmse: 0.470049
[476]    valid_0's rmse: 0.470016
[477]    valid_0's rmse: 0.469983
[478]    valid_0's rmse: 0.469945
[479]    valid_0's rmse: 0.469929
[480]    valid_0's rmse: 0.469901
[481]    valid_0's rmse: 0.469838
[482]    valid_0's rmse: 0.469811
[483]    valid_0's rmse: 0.469725
[484]    valid_0's rmse: 0.469679
[485]    valid_0's rmse: 0.469638
[486]    valid_0's rmse: 0.469571
[487]    valid_0's rmse: 0.469512
```

```
[488]    valid_0's rmse: 0.469453
[489]    valid_0's rmse: 0.469408
[490]    valid_0's rmse: 0.469374
[491]    valid_0's rmse: 0.469354
[492]    valid_0's rmse: 0.46933
[493]    valid_0's rmse: 0.469306
[494]    valid_0's rmse: 0.469296
[495]    valid_0's rmse: 0.469246
[496]    valid_0's rmse: 0.469234
[497]    valid_0's rmse: 0.469204
[498]    valid_0's rmse: 0.469182
[499]    valid_0's rmse: 0.469111
[500]    valid_0's rmse: 0.469072
Did not meet early stopping. Best iteration is:
[500]    valid_0's rmse: 0.469072
Generating submission...
```

SGD Regressor

In [92]:

```python
from sklearn.model_selection import GridSearchCV
from sklearn.linear_model import SGDRegressor, Ridge
```

In [0]:

```python
parameters = {"alpha":[0.00000001,0.00001,0.0001,0.001,0.01,0.1,0,1,10,100,1000,10000,1
00000],
             "l1_ratio" : [0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9],
             }
model = SGDRegressor(
                        loss='squared_loss',
                    learning_rate='invscaling',
                        max_iter=200,
                        penalty='l2',
                        fit_intercept=False
                        )
lr_reg = GridSearchCV(model,param_grid =parameters,n_jobs=-1)
lr_reg.fit(X_train, y_train)
```

Out[0]:

```
GridSearchCV(cv='warn', error_score='raise-deprecating',
             estimator=SGDRegressor(alpha=0.0001, average=False,
                                    early_stopping=False, epsilon=0.1,
                                    eta0=0.01, fit_intercept=False,
                                    l1_ratio=0.15, learning_rate='invscali
ng',
                                    loss='squared_loss', max_iter=200,
                                    n_iter_no_change=5, penalty='l2',
                                    power_t=0.25, random_state=None,
                                    shuffle=True, tol=0.001,
                                    validation_fraction=0.1, verbose=0,
                                    warm_start=False),
             iid='warn', n_jobs=-1,
             param_grid={'alpha': [1e-08, 1e-05, 0.0001, 0.001, 0.01, 0.1,
0, 1,
                                   10, 100, 1000, 10000, 100000],
                         'l1_ratio': [0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8,
0.9]},
             pre_dispatch='2*n_jobs', refit=True, return_train_score=Fals
e,
             scoring=None, verbose=0)
```

In [0]:

```python
lr_reg.best_params_
```

Out[0]:

```
{'alpha': 0, 'l1_ratio': 0.6}
```

In [0]:

```python
model = SGDRegressor(penalty='l2',
                         loss='squared_loss',
                     learning_rate='invscaling',
                         max_iter=200,

                         fit_intercept=False,
                     alpha=0,
                     l1_ratio=0.6
                         )
model.fit(X_train, y_train)
```

Out[0]:

```
SGDRegressor(alpha=0, average=False, early_stopping=False, epsilon=0.1,
          eta0=0.01, fit_intercept=False, l1_ratio=0.6,
          learning_rate='invscaling', loss='squared_loss', max_iter=20
0,
          n_iter_no_change=5, penalty='l2', power_t=0.25, random_state=
None,
          shuffle=True, tol=0.001, validation_fraction=0.1, verbose=0,
          warm_start=False)
```

In [0]:

```python
sgd_scores_val = model.predict(X_test)
sgd_RMSLE = np.sqrt(mean_squared_error(y_test, sgd_scores_val))
print(sgd_RMSLE)
```

0.499634944813034

In [140]:

```python
model = SGDRegressor(penalty='l2',
                         loss='squared_loss',
                     learning_rate='invscaling',
                         max_iter=200,

                         fit_intercept=False,
                     alpha=0,
                     l1_ratio=0.6
                         )
model.fit(X_train, y_train)
predsgd2 = model.predict(submission2)
```

Random Forest Regressor

In [95]:

```python
from sklearn.ensemble import RandomForestRegressor
from sklearn.model_selection import RandomizedSearchCV
from scipy.stats import randint as sp_randint
```

In [0]:

```
param_dist = {'n_estimators': [10,50,100,150,160,200,300,350,400,500],
              'min_samples_split': [2,3,5,6,7,8],


              "max_depth":[None,10,20,40,60,80,100,120]

              }
regr1 = RandomForestRegressor()
n_iter_search = 100
regr1 = RandomizedSearchCV(regr1, param_distributions=param_dist,
                              n_jobs=-1, n_iter=n_iter_search, cv=3)

regr1.fit(X_train, y_train)
```

In [98]:

```
m = RandomForestRegressor(n_jobs=-1,min_samples_split=3,n_estimators=200,max_depth=40)
m.fit(X_train, y_train)
#m.score(X_train, y_train)
```

Out[98]:

```
RandomForestRegressor(bootstrap=True, criterion='mse', max_depth=None,
                      max_features='auto', max_leaf_nodes=None,
                      min_impurity_decrease=0.0, min_impurity_split=None,
                      min_samples_leaf=3, min_samples_split=2,
                      min_weight_fraction_leaf=0.0, n_estimators=200, n_jo
bs=-1,
                      oob_score=False, random_state=None, verbose=0,
                      warm_start=False)
```

In [100]:

```
predr = m.predict(X_test)
rf_RMSLE = np.sqrt(mean_squared_error(y_test, predr))
print(rf_RMSLE)
```

0.49960919554257155

In [141]:

```
predran2 = m.predict(submission2)
```

Ensemble

In [142]:

```
predsub2 = (predlgb2 * 0.4 + predran2 * 0.2 + predridge2 * 0.3 +predsgd2 *0.1)
```

We are doing ensemble modelling on all the 4 algorithms that we have used to calculate regression and gave weights to each of the final values as per the RMSLE of the algorithm.

In [144]:

```python
submission_final['price'] = np.expm1(predsub2)
submission_final.to_csv("submission_price2.csv", index=False)
```

In [145]:

```python
df=pd.read_csv('submission_price2.csv')
```

This is our final submission file that we created and submitted on Kaggle and got the reported accuracy.

In [147]:

```python
df.shape
```

Out[147]:

```
(3460725, 2)
```

In [148]:

```python
df.tail(5)
```

Out[148]:

	test_id	price
3460720	3460720	7.731625
3460721	3460721	23.879428
3460722	3460722	15.214789
3460723	3460723	17.486868
3460724	3460724	21.054176

Conclusion

In [61]:

```python
from prettytable import PrettyTable

x = PrettyTable()

x.field_names = ["Model", "HyperParameters used",  "RMSLE"]

x.add_row(["Ridge Regression", "alpha", 0.48])
x.add_row(["Light GBM", "learning_rate,n_estimators,boosting_type,num_leaves,max_depth"
, 0.46])
x.add_row(["SGD Regressor","alpha,l1_ratio" , 0.49])
x.add_row(["Random Forest Regressor ","n_estimators,min_samples_split,max_depth" , 0.4
96])




print(x)
```

```
+-------------------------+-------------------------------------------------
----------------+-------+
|         Model           |                     HyperParameters used
| RMSLE |
+-------------------------+-------------------------------------------------
----------------+-------+
|     Ridge Regression    |                          alpha
|  0.48 |
|        Light GBM        | learning_rate,n_estimators,boosting_type,num_
leaves,max_depth |  0.46 |
|      SGD Regressor      |                       alpha,l1_ratio
|  0.49 |
| Random Forest Regressor |          n_estimators,min_samples_split,max
_depth           | 0.496 |
+-------------------------+-------------------------------------------------
----------------+-------+
```

Summary

- The Dataset is imported from Kaggle and basic data analysis is done for all the features to extract useful information.
- We did feature engineering and incorporated two additional features 'Length of item description' and 'Sentiment score' that influence price of an item fairly.
- We studied the correlation between different features
- We did necessary preprocessing on the text features, one-hot encoding for the categorical features and tf-idf vectorisation for text features.
- Finally, hstacked all the features in a matrix and prepared it to feed into the algorithms.
- This is a regression problem and we have used 'Ridge Regression', 'Light GBM', 'SGD regressor' and 'Random Forest regressor' for our models.
- "RMSLE" was the error metric specified for this challenge, so all our algorithms calculted RMSLE as the error metric
- Hyperparameters were tuned for each of the models and the best parameters were used to predict prices on the test dataset.
- As it can be seen from the pretty table, LightGBM gives the best results and hence we gave maximum weightage to it while calcutaing the final predicted price of an item in ensemble modelling.
- After using ensembling modelling, we brought down the RMSLE score and it was reported to be 0.45 in the competition score and it performs better than each of the algorithms when applied indidivually.
- So, ensemble modelling gives the best performance for our challenge

In [ ]: