

## Chapter One Exercises

## Set up the environment

In [5]:

```
import nltk
from nltk.book import *
```

```
*** Introductory Examples for the NLTK Book ***
Loading text1, ..., text9 and sent1, ..., sent9
Type the name of the text or sentence to view it.
Type: 'texts()' or 'sents()' to list the materials.
text1: Moby Dick by Herman Melville 1851
text2: Sense and Sensibility by Jane Austen 1811
text3: The Book of Genesis
text4: Inaugural Address Corpus
text5: Chat Corpus
text6: Monty Python and the Holy Grail
text7: Wall Street Journal
text8: Personals Corpus
text9: The Man Who Was Thursday by G . K . Chesterton 1908
```

**1. Try using the Python interpreter as a calculator, and typing expressions like:**

$$12 / (4 + 1) .$$

In [1]:

$$12 / (4 + 1)$$

Out[1]:

2.4

2. Given an alphabet of 26 letters, there are 26 to the power 10, or `26 ** 10`, 10-letter strings we can form. That works out to 141167095653376L (The L at the end just indicates that this is Python's lone-number format). How many hundred-letter strings are possible?

In [2]:

```
26  ** 100
```

Out[2]:

314293064158293883017435778850162642728266998876247525637417317539899590842010402346543259906970228  
964075081611719197835869803511992549376

3. The Python multiplication operation can be applied to lists. What happens when you type `['Monty', 'Python'] * 20`, or `3 * sent1`?

In [4]:

```
['Monty', 'Python'] * 20
```

Out[4]:

```
[ 'Monty',
  'Python',
  'Monty',
  'Python',
  'Monty',
  'Python',
  'Monty',
```

[illegible]

In [7]:

```
3 * sent1
```

Out[7]:

```
['Call',
 'me',
 'Ishmael',
 '.',
 'Call',
 'me',
 'Ishmael',
 '.',
 'Call',
 'me',
 'Ishmael',
 '.']
```

4. Review Section 1.1 on computing with language. How many words are there in `text2`? How many distinct words are there?

In [12]:

```
len(text2) # Number of words (tokens)
```

Out[12]:

141576

In [14]:

```
len(set(text2)) # Number of word types
```

Out[14]:

6833

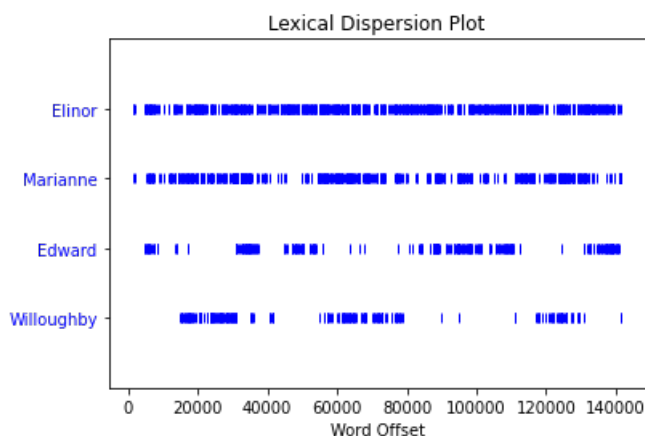
5. Compare the lexical diversity scores for humor and romance fiction in Table 1-1. Which genre is more lexically diverse?

Romance fiction is more lexically diverse than humor since it has a higher score.

6. Produce a dispersion plot of the four main protagonist in *Sense and Sensibility*: Elinor, Marianne, Edward, and Willoughby. What can you observe about the different roles played by the males and females in this novel? Can you identify the couples?

In [15]:

```
text2.dispersion_plot(['Elinor', 'Marianne', 'Edward', 'Willoughby'])
```



Clearly, the two main roles are those of Elinor and Marianne, with Elinor being the most prominent.

The word Edward appears often with both Elinor and Marianne, but on closer look the word Elinor appears more often with Edward than Marianne does. So, I could guess that Elinor and Edward are a couple. Similarly, Marianne and Willoughby appear together more often, so I could guess that Marianne and Willoughby are a couple.

7. Find the collocations in text5.

In [16]:

```
text5.collocations()
```

```
wanna chat; PART JOIN; MODE #14-19teens; JOIN PART; PART PART;
cute.-ass MP3; MP3 player; JOIN JOIN; times .. .; ACTION watches; guys
wanna; song lasts; last night; ACTION sits; -...)...- S.M.R.; Lime
Player; Player 12%; dont know; lez gurls; long time
```

8. Consider the following Python expression: `len(set(text4))`. State the purpose of this expression. Describe the two steps involved in performing this computation.

In [18]:

```
# The purpose of this expression is to count the number of tokens
# in text4, without counting repetitions.

# The first step, which is the set(text4) command, is to obtain a set of
# elements consisting of tokens from text4, but without any token appearing
# in the set more than once.
# The second step, len(), is to count the number of tokens in the set.

len(set(text4))
```

Out[18]:

9913

## 9. Review Section 1.2 on lists and strings.

**a. Define a string and assign it to a variable, e.g. `my_string = 'My String'` (but put something more interesting in the string). Print the contents of this variable in two ways, first by simply typing the variable name and pressing **Enter**, then by using the `print` statement.**

In [24]:

```
my_string = 'This is a string with something more interesting in it than what was originally suggested.'
```

In [25]:

```
my_string
```

Out[25]:

```
'This is a string with something more interesting in it than what was originally suggested.'
```

In [23]:

```
print(my_string)
```

```
This is a string with something more interesting in it than what was originally suggested.
```

**b. Try adding the string to itself using `my_string + my_string`, or by multiplying it by a number, e.g., `my_string * 3`. Notice that the strings are joined together without any spaces. How could you fix this?**

In [26]:

```
my_string + my_string          # Adding string to itself
```

Out[26]:

```
'This is a string with something more interesting in it than what was originally suggested.This is a string with something more interesting in it than what was originally suggested.'
```

In [27]:

```
my_string * 3                  # Multiplying string by 3
```

Out[27]:

```
'This is a string with something more interesting in it than what was originally suggested.This is a string with something more interesting in it than what was originally suggested.This is a string with something more interesting in it than what was originally suggested.'
```

In [28]:

```
# One solution could be to add a "buffer", like a space character ' '
# in between the two string, like so:
my_string + ' ' + my_string
```

Out[28]:

```
'This is a string with something more interesting in it than what was originally suggested. This is a string with something more interesting in it than what was originally suggested.'
```

In [32]:

```
# Same solution would work with multiplication, with the caveat that
# the space character ' ' would need to be added to the string first.
(my_string + ' ') * 3
```

Out[32]:

```
'This is a string with something more interesting in it than what was originally suggested. This is a string with something more interesting in it than what was originally suggested. This is a string with something more interesting in it than what was originally suggested.'
```

ing with something more interesting in it than what was originally suggested. '

**10. Define a variable `my_sent` to be a list of words, using the syntax `my_sent = ["My", "sent"]` (but with your own words, or a favorite saying).**

In [48]:

```
my_sent = ["The", "limits", "of", "my", "language", "mean", "the", "limits", "of", "my", "world"]
```

**a. Use `' '.join(my_sent)` (note the space between the single quotes) to convert this into a string.**

In [49]:

```
my_sent = ' '.join(my_sent)
my_sent
```

Out[49]:

```
'The limits of my language mean the limits of my world'
```

**b. Use `split()` to split the string back into the list form you had to start with.**

In [50]:

```
my_sent = my_sent.split()
my_sent
```

Out[50]:

```
['The',
 'limits',
 'of',
 'my',
 'language',
 'mean',
 'the',
 'limits',
 'of',
 'my',
 'world']
```

**11. Define several variables containing lists of words, e.g., `phrase1`, `phrase2`, and so on. Join them together in various combinations (using the plus operator) to form whole sentences. What is the relationship between `len(phrase1 + phrase2)` and `len(phrase1) + len(phrase2)` ?**

In [51]:

```
phrase1 = ['This', 'is', 'the', 'first', 'sentence']
phrase2 = ['blue', 'red', 'green', 'yellow', 'brown']
phrase3 = ['California', 'Texas', 'Oregon', 'Colorado', 'Montana']
phrase4 = ['left', 'right', 'up', 'down']
```

In [52]:

```
phrase1 + phrase2
```

Out[52]:

```
['This',
 'is',
 'the',
 'first',
 'sentence',
 'blue',
 'red',
 'green',
 'yellow',
 'brown']
```

In [53]:

```
phrase2 + phrase3
```

Out[53]:

```
['blue',  
'red',  
'green',  
'yellow',  
'brown',  
'California',  
'Texas',  
'Oregon',  
'Colorado',  
'Montana']
```

In [54]:

```
phrase3 + phrase4
```

Out[54]:

```
['California',  
'Texas',  
'Oregon',  
'Colorado',  
'Montana',  
'left',  
'right',  
'up',  
'down']
```

In [55]:

```
phrase1 + phrase4
```

Out[55]:

```
['This', 'is', 'the', 'first', 'sentence', 'left', 'right', 'up', 'down']
```

In [56]:

```
len(phrase1 + phrase2)
```

Out[56]:

```
10
```

In [57]:

```
len(phrase1) + len(phrase2)
```

Out[57]:

```
10
```

The relationship between the two commands above shows the distributive property of the `len()` function.

**12. Consider the following two expressions, which have the same value. Which one will typically be more relevant in NLP? Why?**

**a. `"Monty Python"[6:12]`**

**b. `["Monty", "Python"][1]`**

I believe that option b will be more helpful since the expression is a list, and list manipulation is significantly easier to do than individual string manipulation, as it's the case with option a.

**13. We have seen how to represent a sentence as a list of words, where each word is a sequence of characters. What does `sent1[2][2]` do? Why? Experiment with other index values.**

In [59]:

```
sent1
```

Out[59]:

```
['Call', 'me', 'Ishmael', '.']
```

In [58]:

```
sent1[2][2]
```

Out[58]:

```
'h'
```

What the expression `sent1[2][2]` does is return the third character from the third element in the `sent1` list (the 'h' in Ishmael).

**14. The first sentence of `text3` is provided to you in the variable `sent3`. The index of `*the*` in `sent3` is 1, because `sent3[1]` gives us `'the'`. What are the indexes of the two other occurrences of this word in `sent3`?**

In [61]:

```
sent3
```

Out[61]:

```
['In',  
'the',  
'beginning',  
'God',  
'created',  
'the',  
'heaven',  
'and',  
'the',  
'earth',  
'.']
```

In [68]:

```
for w,i in zip(sent3, range(len(sent3))):  
    if w == "the":  
        print(i)
```

```
1  
5  
8
```

The indexes of the other two occurrences of the word `'the'` are 5 and 8.

**15. Review the discussion of conditionals in Section 1.4. Find all words in the Chat Corpus (`text5`) starting with the letter `b`. Show them in alphabetical order.**

In [74]:

```
# Assuming search is case sensitive (i.e., only lowercase b words)  
sorted([w for w in text5 if w.startswith('b')])
```

Out[74]:

[illegible]



[illegible]

'bad',  
'bad',  
'bad',  
'bad',  
'bad',  
'bad',  
'bad',  
'bad',  
'bad',  
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'bad',  
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'bad',  
'bad',  
'bad',  
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'bag',  
'bag',  
'bagel',  
'bagels',  
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'bak',  
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'bares',  
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'barks',  
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'barrel',  
'base',  
'bases',  
'basically',  
'basket',  
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'battery',  
'battery',  
'bay',  
'bay',

[illegible]

'be',  
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'because',  
'because'

[illegible]

'been',  
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'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'bigest',  
'biggest',  
'biiiatch',  
'bike',  
'bikes',  
'bikini',  
'bio',  
'bird',





[illegible]

'bored',  
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'bouncer',  
'bouncers',  
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'bout',  
'bouts',  
'bouts',  
'bow',  
'bowl',  
'box',  
'box',  
'box',  
'box',  
'boy',  
'boy'.

[illegible]

[illegible]

```
    busy ,  
    ...]
```

In [75]:

```
# If search need to be case sensitive (i.e., words with b or B), then  
sorted([w for w in text5 if w.lower().startswith('b')])
```

Out[75]:

```
['B',  
'B',  
'BAAAAALLLLLLLLLLIIIIIIINNNNNNNNNNN',  
'BE',  
'BIG',  
'BIG',  
'BLONDES',  
'BOOTS',  
'BOOTY',  
'BOOTY',  
'BOOTY',  
'BOY',  
'BUT',  
'BUT',  
'BYE',  
'Back',  
'Barbieee',  
'Barometer',  
'Beach',  
'Beach',  
'Because',  
'Because',  
'Been',  
'Ben',  
'Ben',  
'Benjamin',  
'Better',  
'Bible',  
'Biiiiiitch',  
'Biographys',  
'Birdgang',  
'Bloooooooooood',  
'Blooooooooooooood',  
'Blooooooooooooooooood',  
'Bone',  
'Bonus',  
'Books',  
'Boone',  
'Booyah',  
'Borat',  
'Born',  
'Box',  
'Boyz',  
'Break',  
'Breaking',  
'Broken',  
'Bud',  
'Burger',  
'But',  
'But',  
'But',  
'But',  
'But',  
'Bwhaha',  
'Bye',  
'b',  
'b',  
'b',  
'b',  
'b',  
'b',  
'b',  
'b-day',  
'b/c',  
'b4',  
'b4',  
'babay',  
...]
```

[illegible]

[illegible]





[illegible]

[illegible]

'become',  
'bed',  
'bed',  
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'bed',  
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'bed',  
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'bedford',  
'bedroom',  
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'biatch',  
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'biebsa',  
'bied',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'big',  
'bigest',  
'biggest',  
'biiatch',  
'bike',  
'bikes',  
'bikini',  
'bio',  
'bird',  
'birfday',  
'birthday',  
'birthday',  
'bisexual',  
'bishes',  
  
'bit',  
'bit',  
'bit',  
'bit',  
'bit',  
'bit',  
'bit',  
'bit'



[illegible]

[illegible]



[illegible]

```
'brought',  
'brought',  
'brown',  
'brown',  
'brrrrrrr',  
'bruises',  
'bruises',  
'brunswick',  
'brwn',  
'btw',  
...]
```

16. Type the expression `range(10)` at the interpreter prompt. Now try `range(10, 20)`, `range(10, 20, 2)`, and `range(20, 10, -2)`. We will see a variety of uses for this built-in function in later chapters.

In [1]:

```
range(10)
```

Out[1]:

```
range(0, 10)
```

In [2]:

```
range(10, 20)
```

Out[2]:

```
range(10, 20)
```

In [3]:

```
range(10, 20, 2)
```

Out[3]:

```
range(10, 20, 2)
```

In [4]:

```
range(10, 20, -2)
```

Out[4]:

```
range(10, 20, -2)
```

17. Use `text9.index()` to find the index of the word `*sunset*`. You'll need to insert this word as an argument between the parentheses. By a process of trial and error, find the slice for the complete sentence that contains this word.

In [6]:

```
text9.index('sunset')
```

Out[6]:

```
629
```

In [8]:

```
' '.join(text9[600:650])
```

Out[8]:

```
' , and you may safely read . G . K . C . CHAPTER I THE TWO POETS OF SAFFRON PARK THE suburb of Saf  
fron Park lay on the sunset side of London , as red and ragged as a cloud of sunset . It was built  
of a bright'
```

In [9]:

```
' '.join(text9[600:630])
```

Out[9]:

```
', and you may safely read . G . K . C . CHAPTER I THE TWO POETS OF SAFFRON PARK THE suburb of Saffron Park lay on the sunset'
```

In [11]:

```
' '.join(text9[580:630])
```

Out[11]:

```
'We have found common things at last and marriage and a creed , And I may safely write it now , and you may safely read . G . K . C . CHAPTER I THE TWO POETS OF SAFFRON PARK THE suburb of Saffron Park lay on the sunset'
```

In [12]:

```
' '.join(text9[570:630])
```

Out[12]:

```
'strength in striking root and good in growing old . We have found common things at last and marriage and a creed , And I may safely write it now , and you may safely read . G . K . C . CHAPTER I THE TWO POETS OF SAFFRON PARK THE suburb of Saffron Park lay on the sunset'
```

In [15]:

```
' '.join(text9[580:630])
```

Out[15]:

```
'We have found common things at last and marriage and a creed , And I may safely write it now , and you may safely read . G . K . C . CHAPTER I THE TWO POETS OF SAFFRON PARK THE suburb of Saffron Park lay on the sunset'
```

18. Using **list** addition, and the **set** and **sorted** operations, compute the vocabulary of the sentences **sent1 ... sent8**.

In [18]:

```
sorted(set(sent1 + sent2 + sent3 + sent4 + sent5 + sent6 + sent7 + sent8))
```

Out[18]:

```
['!',  
' ',  
'-',  
'.',  
'1',  
'25',  
'29',  
'61',  
':',  
'ARTHUR',  
'Call',  
'Citizens',  
'Dashwood',  
'Fellow',  
'God',  
'House',  
'I',  
'In',  
'Ishmael',  
'JOIN',  
'KING',  
'MALE',  
'Nov.',
```

```
'PMing',
'Pierre',
'Representatives',
'SCENE',
'SEXY',
'Senate',
'Sussex',
'The',
'Vinken',
'Whoa',
'[',
']',
'a',
'and',
'as',
'attrac',
'been',
'beginning',
'board',
'clop',
'created',
'director',
'discreet',
'earth',
'encounters',
'family',
'for',
'had',
'have',
'heaven',
'in',
'join',
'lady',
'lol',
'long',
'me',
'nonexecutive',
'of',
'old',
'older',
'people',
'problem',
'seeks',
'settled',
'single',
'the',
'there',
'to',
'will',
'wind',
'with',
'years']
```

19. What is the difference between the following two lines? Which one will give a larger value? Will this be the case for other texts?

```
>>> sorted(set([w.lower() for w in text1]))
```

```
>>> sorted([w.lower() for w in set(text1)])
```

```
In [19]:
```

```
len(set([w.lower() for w in text1]))
```

```
Out[19]:
```

```
17231
```

```
In [20]:
```

```
len([w.lower() for w in set(text1)])
```

```
Out[20]:
```

19317

The second expression will contain more tokens because, to start with, the `set` function is case sensitive when it comes to processing input. So, when the first expression sets all the words to lowercase before doing the pruning some words were set equal to their lowercase version (i.e. 'The' and 'the' are now the same).

Yes, this will always be the case.

20. What is the difference between the following two tests: `w.isupper()` and `not w.islower()`?

The main difference between the two test is the not. In the second test, the `not` negates the result of the `w.islower()` test.

In [26]:

```
my string = "Test"
```

In [27]:

```
my_string.isupper()
```

Out[27]:

False

In [29]:

```
my_string.islower()
```

Out[29]:

False

21. Write the slice expression that extracts the last two words of `text2`.

In [30]:

```
text2[-2:]
```

Out[30]:

[ 'THE' , 'END' ]

22. Find all the four-letter words in the *Chat Corpus* (`text5`). With the help of a frequency distribution (`FreqDist`), shows these words in decreasing order of frequency.

In [37]:

```
freq_dist = FreqDist([w for w in text5 if len(w) == 4])
```

In [38]:

```
freq dist.keys()
```

Out[38]:

```
dict_keys(['left', 'with', 'this', 'name', 'PART', 'well', 'NICK', 'U121', 'golf', 'clap', 'JOIN',
'that', 'nice', 'fuck', 'your', 'dont', 'even', 'know', 'what', 'chat', 'drew', 'cast', 'sexy',
'U115', 'girl', 'legs', 'hope', 'draw', 'head', 'good', 'take', 'have', 'docs', 'Slip', 'away',
'Fade', 'Days', 'feel', 'back', 'U129', 'fast', 'U116', 'bowl', 'bong', 'glad', 'hard', 'from',
'here', 'very', 'fire', 'itch', 'U133', 'ogan', 'male', 'show', 'will', 'talk', 'haha', 'opps',
'warm', 'guys', 'cams', 'play', 'sits', 'guyz', 'U126', 'gooo', 'sure', 'like', 'room', 'yeee',
```

'want', 'pics', 'look', 'U139', 'U138', 'make', 'late', 'lmao', 'ahah', 'does', 'yeah', 'U136',  
 'hell', 'U101', 'when', 'plan', 'gold', 'jeep', 'ring', 'isnt', 'doin', 'many', 'Just', 'fine',  
 'hiya', 'Deep', 'Show', 'love', 'Turn', 'Hand', 'just', 'hang', 'such', 'word', 'U141', 'hear',  
 '!!!!', 'deaf', '....', 'hugs', 'baby', 'Only', 'read', 'VBox', 'hate', 'more', 'than', 'ELSE',  
 'serg', 'most', 'eyes', 'jerk', 'kids', 'type', 'much', 'shut', 'miss', 'work', 'hey', 'U148',  
 'boys', 'ugly', 'bein', 'What', 'whys', 'deep', 'tape', 'Your', 'sexs', 'best', 'phil', 'said',  
 'date', 'they', 'form', 'hmph', 'mean', 'been', 'wait', 'perv', 'lets', 'rule', 'land', 'wont',  
 'then', 'find', 'need', 'HUGE', 'deal', '????', 'shit', 'U155', 'only', 'Poor', 'pick', 'nads',  
 'nose', 'face', 'owww', 'gags', 'neck', 'Meep', 'LAST', 'time', 'wash', 'dude', 'gets', 'dang',  
 'pm's', '1.99', 'free', 'goes', 'Lies', 'lick', 'ummm', 'U109', 'dead', 'call', 'case', 'else',  
 'bite', 'mins', 'nite', 'lool', 'kina', 'give', 'were', 'sext', 'piff', 'lazy', 'busy', 'okay',  
 'calm', 'down', 'arms', 'eats', 'near', 'smax', '>:->', 'VVil', 'cold', 'cell', 'runs', 'thru',  
 'hair', 'caps', 'U165', 'jump', 'over', 'este', 'wana', 'chik', 'list', 'wish', 'cmom', 'U128',  
 'hehe', 'hows', 'bout', 'wats', 'aint', 'lost', 'same', 'Boyz', 'rock', 'went', 'some', 'came',  
 'home', 'coat', 'kind', 'Eyes', 'Dawn', 'last', 'song', 'LIVE', 'cool', 'mauh', 'mike', 'keep',  
 'must', 'seem', 'days', 'ques', 'quit', '4.20', 'mine', 'cali', 'year', 'whoa', 'gosh', 'ruff',  
 'roll', 'nope', 'rest', 'sing', 'mame', 'nada', 'alot', 'band', 'hand', 'dumb', 'damn', 'orgy',  
 'easy', 'push', 'lose', 'long', 'stay', 'door', 'prob', 'life', 'wild', 'none', 'whew', 'dark',  
 'seen', 'waht', 'next', 'test', 'self', 'pass', 'once', 'book', 'Well', 'cant', 'come', 'line',  
 'boot', 'stop', 'slap', 'hiom', 'used', 'live', 'HAHA', 'cute', 'dman', 'holy', 'crap', 'took',  
 'ever', 'When', 'babe', 'park', 'them', 'jail', 'soon', 'tell', 'cops', 'Sure', 'Come', 'hogs',  
 'peek', 'help', 'MORE', 'TIME', 'care', 'real', 'LMAO', 'soul', 'done', 'O.k.', 'luck', 'loud',  
 'o.k.', 'Sexy', 'ride', 'Ctrl', 'mama', 'Nice', 'hots', 'hook', 'awww', 'Need', 'hold', 'lady',  
 'frst', '1200', 'soft', 'ohio', 'Like', 'whip', 'crop', 'each', 'bomb', 'Pour', 'bend', 'also',  
 'pour', 'comp', 'mind', 'Swim', 'Hard', 'open', 'full', 'wear', 'toss', 'high', 'ouch', 'evil',  
 'twin', 'eek', 'tjhe', 'burp', 'fart', 'true', '10th', 'heee', 'peel', 'fock', 'kool', 'kiss',  
 'Kold', 'exit', 'kold', '3:45', 'MRIs', 'amen', 'buff', 'plus', 'tory', 'blew', 'knee', 'heya',  
 'fall', 'OOPS', 'oooh', 'lala', 'fake', 'into', 'ssid', 'temp', 'blue', 'corn', 'poot', 'poop',  
 'bird', 'Hiya', 'rain', 'plow', 'main', 'MODE', 'Yeah', 'pool', 'deop', 'thnx', 'roof', 'card',  
 'Hugs', '((((', '))))', 'Lord', 'uyes', 'benz', 'week', 'cash', '<~~~', 'grrr', 'ears', 'disc',  
 'LONG', 'Been', 'hour', 'From', 'Will', 'porn', 'CHAT', 'told', 'goin', 'boss', 'heal', 'pain',  
 'game', 'bloe', 'blow', 'hooo', 'Dang', 'ciao', 'DOES', 'U520', 'kick', 'thje', 'Jess', 'nick',  
 'typo', 'ahhh', 'pink', 'term', 'beer', 'Stop', 'Tina', 'oer', 'ahem', 'HALO', 'Awww', 'dear',  
 'hola', 'anal', 'eric', 'Drop', 'dojn', 'wubs', 'mkay', 'butt', 'spat', 'poor', 'gone', 'imma',  
 'gees', 'Drew', 'hawT', 'town', 'sore', 'yes.', 'puts', 'fish', 'size', 'hawt', 'Live', '39.3',  
 '2006', 'Elev', 'Wind', 'High', '1980', '64.8', 'says', 'That', 'AKDT', 'pfft', 'sigh', 'syck',  
 'tere', 'suck', 'ohhh', 'U542', 'sent', '45.5', '98.5', '1299', 'hits', '1900', '1930', 'KoOL',  
 'Werd', 'Rofl', 'lead', 'mode', 'nawt', 'past', 'DING', 'Love', '####', 'sign', 'woof', 'sum1',  
 'ghet', 'brad', 'note', 'meat', 'offa', 'shes', 'Dood', 'out.', '!!!.', 'LOUD', 'sink', 'wall',  
 'FINE', 'argh', 'oops', 'gawd', 'cums', 'loss', 'limp', 'rent', 'Have', 'cars', 'Life', 'Damn',  
 'wrap', 'Tell', 'hide', 'PM's', 'Talk', 'okey', 'worl', 'half', 'shop', 'Hold', 'cepn', 'lots',  
 'Mary', 'mary', 'U172', 'nawp', 'addy', 'lake', 'ROOM', 'ello', 'slip', 'mite', ',,,', 'meet',  
 'wood', 'knew', 'lord', 'till', '<---', 'five', 'orta', 'wins', 'sell', 'ebay', 'coem', 'giva',  
 '1.98', 'ball', '<<<<', 'hick', 'city', 'ally', 'wine', 'yard', 'hiiii', 'Judy', 'yall', 'cyas',  
 'grrl', 'shup', 'tooo', 'pm'n', 'sick', 'choc', 'chip', 'bear', 'bare', 'mmmm', 'wher', 'made',  
 'ones', 'foot', 'whoo', 'dint', 'send', 'tend', 'vote', 'uses', 'DONT', 'menu', 'lust', 'nods',  
 'Liam', 'This', '; ..', '...', 'NAME', 'kept', 'Same', 'feet', 'xbox', 'scuk', 'raed', 'Song', 'h  
 uge', 'Then', 'wack', 'woot', 'bugs', 'blah', 'sort', 'idea', 'nerd', 'Hill', 'Evil', 'saME',  
 '2Pac', 'Time', 'U110', 'pimp', 'U108', 'shot', 'lies', 'snow', 'hurt', 'haaa', 'U119', '98.6',  
 'it's', 'Mono', 'mono', 'heck', 'team', 'whud', 'Bone', 'U122', 'Hero', 'They', 'Came', '.op.',  
 'hott', 'Hott', 'Down', 'Joey', 'Jane', 'span', 'wore', 'QUIT', 'pasa', 'barn', 'joke', 'Kick',  
 'feat', 'Back', 'Lets', 'dork', 'laid', 'club', 'Home', 'ways', 'herd', 'part', 'Born', 'Away',  
 'Tide', 'adds', 'jush', 'Cute', 'Grlz', 'lung', 'SOME', 'U156', 'Here', 'Lion', 'brat', 'move',  
 'road', 'born', 'walk', ':o \*', 'MUAH', 'fawk', 'dust', 'fool', 'Help', 'felt', 'seth', 'U105', 'H  
 eya', 'U107', 'wOOT', 'bone', 'abou', 'tthe', 'beat', 'yawn', 'area', '?!?!', 'U103', 'Even',  
 'Ohio', 'herE', 'Hail', 'hail', 'U112', 'halo', 'pork', 'kent', 'lcos', 'yw's', 'mark', 'hummm',  
 'dotn', 'newp', 'gays', 'U120', 'PMSL', 'pmsl', 'gift', 'zone', 'hint', 'hmmmm', 'outs', 'U130',  
 'Paul', 'outa', 'York', 'nana', 'U104', 'kill', 'U196', 'Last', 'U132', 'Care', 'Chat', 'spin',  
 'U106', 'whos', 'ewww', 'fear', 'dies', 'wife', 'givs', 'U219', 'bust', 'xmas', 'enuf', 'LoVe',  
 'eeww', 'turn', 'pies', 'dick', 'fair', 'lyin', 'doll', 'lois', 'cuss', 'drop', 'LATE', 'THEY',  
 'GOOD', 'rape', 'U114', 'geez', 'tart', 'hgey', 'hump', 'gimp', 'caan', 'spot', 'elle', 'yada',  
 'lame', 'lol.', 'ages', 'Elle', 'nude', 'allo', 'yesh', 'clue', 'wind', 'Reub', '!???', 'heat',  
 'kmph', 'pope', 'mass', 'Ummm', 'yess', '!...', 'duet', 'Gosh', 'wuts', 'flow', 'west', 'quiz',  
 'kewl', 'scar', 'Girl', 'pair', 'sang', 'Rang', 'hall', 'rang', 'bell', 'dawg', 'tune', 'haze',  
 'febe', 'Prof', '1996', 'Kewl', 'hank', 'jude', 'slow', 'yoko', 'John', 'john', 'Yoko', 'see',  
 'whou', 'idnt', 'sooo', 'perk', 'http', 'rubs', 'skin', '2DAY', 'meds', 'yell', 'mang', 'SSRI',  
 'cure', 'wean', 'died', 'cost', 'post', 'anti', 'trip', 'noth', 'babi', 'tall', 'pray', 'weed',  
 'icky', 'Rick', 'spit', 'rich', 'lube', 'mami', 'U102', 'U100', 'east', '18ST', 'seat', 'cock',  
 'SExy', 'otay', 'firs', 'site', 'U113', 'dump', 'toop', 'four', 'U118', 'sets', 'asss', 'paid',  
 'Iowa', 'Teck', 'n9ne', 'both', '...', 'jeff', 'crib', 'food', 'drug', 'cook', '9:10', 'ladz',  
 'aime', 'Ahhh', 'hong', 'kong', 'U123', 'Oops', '?!?!', 'tits', 'gret', 'U111', 'guns', 'inch',  
 'sean', 'howl', 'moon', 'STOP', 'Take', 'z-ro', 'anyl', 'U137', 'Haha', '1985', 'U142', 'slam', 'U  
 144', 'pine', 'yeas', 'puke', 'waaa', 'U145', 'urIs', 'star', 'Save', 'U154', 'teck', 'Room',  
 'wooo', 'sori', 'U169', '<333', 'swim', 'Long', 'poem', 'jack', 'tick', 'tock', 'WITH', 'FROM',  
 'Rule', 'CAPS', 'junk', 'tips', 'rush', 'Nooo', 'Troy', 'tail', 'See', '6:38', 'dyed', 'U988', 't  
 he', 'beam', 'puff', 'daft', 'twit', 'scum', 'U134', 'Type', 'WHOA', 'toke', 'ribs', 'Eggs',  
 'side', 'Wyte', 'Heyy', 'moms', 'Over', 'West', 'Rock', 'goof', 'howz', 'U146', 'ex's', 'U143',

```
'able', 'vamp', 'Nope', 'Kent', 'U989', 'Cool', 'ther', 'U147', 'TEXT', 'SIZE', 'U163', 'gear',
'CALI', 'Matt', 'Rush', 'AWAY', 'NTMN', 'Kiss', 'U158', 'grea', 'U168', 'Look', 'U170', 'guts',
'U175', 'wrek', 'Fort', '2:55', 'AKST', '4:03', 'root', 'wire', 'soda', 'gray', 'tlak', 'ltnc',
'ok'd', 'sayn', 'sock', 'evah', 'bike', 'hill', 'ohwa', 'caca', 'tyvm', 'luvs', 'prep', 'pull',
'dirt', 'vent', '100%', 'safe', 'dogs', 'bull', 'fits', 'asks', 'Road', 'chit', 'grin', 'bred',
'rats', 'Sat.', 'samn', 'Phil', 'nuff', 'rose', 'Ruth', 'rofl', 'grew', 'sand', 'army', 'mena',
'ROFL', 'lapd', 'surf', 'City', 'hazy', 'thot', 'acid', 'wide', 'keys', 'salt', 'mess', 'base',
'byes', 'THAT', 'RN's', 'yout', 'numb', 'thah', 'mahn', 'King', 'TALK', 'GIRL', 'WHEN', 'HOTT',
'HERE', 'soup', '6:51', '9.53', 'ltns', 'Mine', 'vega', 'pigs', 'king', 'poof', 'Nova', 'mofo',
'Ohhh', 'flaw', 'Holy', 'sips', 'clay', 'None', 'Male', 'aunt', 'bacl', 'body', 'akon', 'yoll',
'boom', 'News', 'Maps', 'lawl', 'page', 'Okay', 'Tiff', 'wazz', 'Chop', 'toes', 'DAMN', 'TYPR',
'poll', 'boed', 'Dude', 'Does', 'pwns', 'Very', 'Good', 'Food', 'sexi', 'bois', 'KNOW', 'GUYS',
'HAVE', 'NONE', 'YALL', 'EVEN', 'SEEN', 'WILL', 'YOUR', 'COME', 'FACE', 'JUST', 'Lmao', 'Kids',
'6:41', 'bied', '6:53', 'U117', 'U149', 'U153', '7:45', 'Uhhh', 'tenn', 'pure', 'Lime', 'U164',
'U150', 'U181', 'gals', 'woah', 'ussy', 'Tisk', 'U190', 'tisk', 'tiff', 'Heys', 'U197', '<3's',
'lisa', 'U819', 'U820', 'brwn', 'hurr', 'Were']])
```

**23. Review the discussion of looping with conditions in Section 1.4. Use a combination of `for` and `if` statements to loop over the words of the movie script for *\*Monty Python and the Holy Grail\** (`text6`) and `print` all the uppercase words, one per line.**

```
In [39]:
```

```
for w in text5:
    if w.isupper():
        print(w)
```

```
:P
PART
NICK
U7
U7
ACTION
U121
JOIN
U59
JOIN
PART
U7
U121
PART
PART
PART
JOIN
PART
U115
JOIN
PART
PART
JOIN
JOIN
JOIN
PART
I
I
I
U115
U129
U115
PART
JOIN
JOIN
U116
JOIN
U68
PART
PART
JOIN
U121
B
U30
JOIN
PART
JOIN
U133
TOTN
```

JOIN  
JOIN  
PART  
JOIN  
PART  
ACTION  
U115  
ACTION  
U68  
JOIN  
JOIN  
U126  
PART  
PART  
U126  
JOIN  
U30  
JOIN  
I  
U64  
U139  
U44  
PART  
PART  
JOIN  
JOIN  
U68  
PART  
JOIN  
U139  
PART  
JOIN  
U138  
HAHAHA  
U139  
U44  
U139  
U126  
PART  
U121  
ACTION  
U121  
JOIN  
U139  
U20  
U68  
U136  
PM  
U139  
U101  
I  
U83  
U20  
:P  
PART  
JOIN  
A  
U30  
U6  
U7  
U115  
ACTION  
U136  
PM  
I  
U7  
U139  
U121  
I  
PART  
I  
PART  
DIRTY  
U141  
PM  
PART  
JOIN  
"6



UU  
PART  
U6  
U115  
ACTION  
U6  
U115  
ACTION  
U6  
I  
U121  
U121  
PART  
U6  
U121  
JOIN  
U7  
JOIN  
U121  
JOIN  
ALL  
U121  
PM  
PART  
I  
I  
JOIN  
PART  
U6  
U121  
CA  
U115  
U20  
U7  
ACTION  
PART  
U92  
JOIN  
ANYONE  
ELSE  
ME  
JOIN  
U44  
CO  
U20  
I  
JOIN  
ACTION  
U68  
PART  
ACTION  
A  
JOIN  
U115  
U30  
I  
U116  
PART  
U7  
PART  
U148  
U92  
JOIN  
U148  
I  
PART  
U121  
JOIN  
PART  
U115  
U121  
JOIN  
U7  
M  
UK  
I  
PART  
""

U /  
PART  
ACTION  
JOIN  
U92  
U84  
ACTION  
U92  
U68  
I  
U6  
U83  
U84  
PART  
JOIN  
U115  
ACTION  
U116  
ACTION  
U121  
PART  
U115  
JOIN  
I  
I  
PM  
HUGE  
JOIN  
PART  
LOL  
U7  
U83  
U83  
ACTION  
U7  
JOIN  
U83  
ACTION  
U121  
JOIN  
U155  
U121  
ACTION  
U6  
PART  
PART  
U92  
U30  
U121  
ACTION  
U1370  
JOIN  
JOIN  
ACTION  
U7  
U92  
ACTION  
U1370  
U23  
PART  
U115  
PART  
JOIN  
ACTION  
U116  
PART  
I  
IL  
ACTION  
ACTION  
U121  
ACTION  
U92  
ACTION  
ACTION  
U115  
ACTION  
U92

U92  
JOIN  
U121  
LOLOLOLLL  
U12  
U115  
U12  
U68  
JOIN  
ACTION  
I  
U115  
U7  
U23  
U20  
U30  
U115  
ACTION  
LOL  
U109  
U6  
I  
ACTION  
U115  
PART  
U68  
U6  
ACTION  
I  
JOIN  
U30  
U23  
U155  
PART  
U115  
U115  
U109  
PM  
JOIN  
CA  
ACTION  
U109  
U6  
U68  
U30  
PART  
JOIN  
U20  
ACTION  
U6  
U20  
I  
I  
U84  
ACTION  
I  
U30  
PART  
ACTION  
JOIN  
ACTION  
U20  
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```

24. Write expressions for finding all words in `text6` that meet the following conditions. The result should be in the form of a list of words: `['word1', 'word2', ...]`.

a. Ending in *\*ize\**

b. Containing the letter *\*z\**

c. Containing the sequence of letters *\*pt\**

d. All lowercase letters except for an initial capital(i.e., *titlecase*)

In [43]:

```
[w for w in text6 if w.endswith('ize')] # a
```

Out[43]:

```
[]
```

In [44]:

```
[w for w in text6 if 'z' in w] # b
```

Out[44]:

```
['zone',
 'amazes',
 'Fetchez',
 'Fetchez',
 'zoop',
 ...]
```

```
'zoo',  
'zhiv',  
'frozen',  
'zoosh']
```

In [45]:

```
[w for w in text6 if 'pt' in w] # c
```

Out[45]:

```
['empty',  
'aptly',  
'Thpppppt',  
'Thppt',  
'Thppt',  
'empty',  
'Thpppppt',  
'temptress',  
'temptation',  
'ptoo',  
'Chapter',  
'excepting',  
'Thpppt']
```

In [46]:

```
[w for w in text6 if w.istitle()] # d
```

Out[46]:

```
['Whoa',  
'Halt',  
'Who',  
'It',  
'I',  
'Arthur',  
'Uther',  
'Pendragon',  
'Camelot',  
'King',  
'Britons',  
'Saxons',  
'England',  
'Pull',  
'I',  
'Patsy',  
'We',  
'Camelot',  
'I',  
'What',  
'Ridden',  
'Yes',  
'You',  
'What',  
'You',  
'So',  
'We',  
'Mercea',  
'Where',  
'We',  
'Found',  
'In',  
'Mercea',  
'The',  
'What',  
'Well',  
'The',  
'Are',  
'Not',  
'They',  
'What',  
'A',  
'It',  
'It',
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'It',  
'A',  
'Well',  
'Will',  
'Arthur',  
'Court',  
'Camelot',  
'Listen',  
'In',  
'Please',  
'Am',  
'I',  
'I',  
'It',  
'African',  
'Oh',  
'African',  
'European',  
'That',  
'Oh',  
'I',  
'Will',  
'Camelot',  
'But',  
'African',  
'Oh',  
'So',  
'Wait',  
'Supposing',  
'No',  
'Well',  
'They',  
'What',  
'Well',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Ninepence',  
'Bring',  
'Bring',  
'Bring',  
'Bring',  
'Here',  
'Ninepence',  
'I',  
'What',  
'Nothing',  
'Here',  
'I',  
'Ere',  
'He',  
'Yes',  
'I',  
'He',  
'Well',  
'He',  
'I',  
'No',  
'You',  
'Oh',  
'I',  
'It',  
'I',  
'Oh',  
'I',  
'I',  
'Well',  
'I',  
'Well',  
'He',  
'No',  
'I',

'Robinson',  
'They',  
'Well',  
'Thursday',  
'I',  
'I',  
'You',  
'Look',  
'I',  
'I',  
'Ah',  
'Not',  
'See',  
'Thursday',  
'Right',  
'All',  
'Who',  
'I',  
'Must',  
'Why',  
'He',  
'King',  
'Arthur',  
'King',  
'Arthur',  
'Old',  
'Man',  
'Man',  
'Sorry',  
'What',  
'I',  
'I',  
'I',  
'I',  
'Well',  
'I',  
'Man',  
'Well',  
'Dennis',  
'Well',  
'I',  
'Dennis',  
'Well',  
'I',  
'What',  
'I',  
'Well',  
'I',  
'Oh',  
'And',  
'By',  
'By',  
'If',  
'Dennis',  
'Oh',  
'How',  
'How',  
'I',  
'Arthur',  
'King',  
'Britons',  
'Who',  
'King',  
'The',  
'Britons',  
'Who',  
'Britons',  
'Well',  
'We',  
'Britons',  
'I',  
'I',  
'I',  
'You',  
'We',  
'A',  
'Oh',

'That',  
'If',  
'Please',  
'I',  
'Who',  
'No',  
'Then',  
'We',  
'What',  
'I',  
'We',  
'We',  
'Yes',  
'But',  
'Yes',  
'I',  
'By',  
'Be',  
'But',  
'Be',  
'I',  
'Order',  
'Who',  
'Heh',  
'I',  
'Well',  
'I',  
'You',  
'Well',  
'The',  
'Lady',  
'Lake',  
'Excalibur',  
'Divine',  
'Providence',  
'I',  
'Arthur',  
'Excalibur',  
'That',  
'I',  
'Listen',  
'Supreme',  
'Be',  
'Well',  
'Shut',  
'I',  
'I',  
'I',  
'Shut',  
'Shut',  
'Ah',  
'Shut',  
'Oh',  
'Come',  
'Help',  
'I',  
'Bloody',  
'Oh',  
'Did',  
'Did',  
'That',  
'I',  
'Did',  
'You',  
'King',  
'Arthur',  
'Aaagh',  
'King',  
'Arthur',  
'Aaagh',  
'Ooh',  
'King',  
'Arthur',  
'Aagh',  
'Oh',  
'King',  
'Arthur',

'Ooh',  
'Aaagh',  
'Agh',  
'Aaaaaah',  
'Aaaaaaaaah',  
'Umm',  
'You',  
'Sir',  
'Knight',  
'I',  
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'King',  
'Britons',  
'I',  
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'You',  
'Will',  
'You',  
'So',  
'Come',  
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'What',  
'None',  
'I',  
'Sir',  
'Knight',  
'I',  
'Then',  
'I',  
'King',  
'Britons',  
'I',  
'So',  
'Aaah',  
'Now',  
'Tis',  
'A',  
'Your',  
'No',  
'Well',  
'I',  
'You',  
'Come',  
'Huyah',  
'Hiyaah',  
'Aaaaaaaaah',  
'Victory',  
'We',  
'Thee',  
'Lord',  
'Thy',  
'Hah',  
'Come',  
'What',  
'Have',  
'Eh',  
'You',  
'Sir',  
'Knight',  
'Oh',  
'Look',  
'You',  
'Yes',  
'I',  
'Look',  
'Just',  
'Look',  
'Chicken',  
'Chickennn',  
'Look',  
'I',  
'Right',  
'Right',  
'I',  
'You',  
'Come',



'What',  
'I',  
'You',  
'The',  
'Black',  
'Knight',  
'Have',  
'Come',  
'Ooh',  
'All',  
'Come',  
'Patsy',  
'Oh',  
'Oh',  
'I',  
'Running',  
'You',  
'Come',  
'I',  
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'Iesu',  
'Pie',  
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'A',  
'A',  
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'Iesu',  
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'Bring',  
'I',  
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'They',  
'Augh',  
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'And',  
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'Yeah',  
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'Quiet',  
'Quiet',  
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'Ah',  
'What',  
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'Tell',  
'Tell',  
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'Burn',  
'Burn',  
'Burn',  
'Burn',  
'And',  
'More',  
'Shh',  
'Wood',  
'So',  
'B',  
'Good',  
'Heh',  
'Oh',  
'Oh',  
'So',  
'Build',  
'Ah',  
'Oh',  
'Oh',  
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'Uhh',  
'Does',  
'No',  
'No',  
'No',  
'It',  
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'The',  
'Throw',  
'What',  
'Bread',  
'Apples',  
'Uh',  
'Cider',  
'Uh',  
'Cherries',  
'Mud',  
'Churches'.

Churches',  
'Lead',  
'Lead',  
'A',  
'Oooh',  
'Exactly',  
'So',  
'If',  
'And',  
'A',  
'A',  
'A',  
'A',  
'Here',  
'Use',  
'We',  
'Ohh',  
'Ohh',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Ahh',  
'Ahh',  
'Right',  
'Remove',  
'A',  
'A',  
'A',  
'It',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Burn',  
'Who',  
'I',  
'Arthur',  
'King',  
'Britons',  
'My',  
'Good',  
'Sir',  
'Knight',  
'Camelot',  
'Round',  
'Table',  
'My',  
'I',  
'What',  
'Bedevere',  
'Then',  
'I',  
'Sir',  
'Bedevere',  
'Knight',  
'Round',  
'Table',  
'The',  
'Sir',  
'Bedevere',  
'King',  
'Arthur',  
'Sir',  
'Lancelot',  
'Brave',  
'Sir',  
'Gallahad',  
'Pure',  
'Sir',  
'Robin'.

'Sir',  
'Lancelot',  
'Dragon',  
'Anagnor',  
'Chicken',  
'Bristol',  
'Battle',  
'Badon',  
'Hill',  
'Sir',  
'Not',  
'Together',  
'Knights',  
'Round',  
'Table',  
'And',  
'This',  
'Sir',  
'Bedevere',  
'Explain',  
'Oh',  
'Look',  
'Camelot',  
'Camelot',  
'Camelot',  
'It',  
'Shh',  
'Knights',  
'I',  
'Let',  
'Camelot',  
'We',  
'We',  
'We',  
'With',  
'We',  
'Camelot',  
'We',  
'We',  
'Round',  
'Table',  
'Our',  
'But',  
'That',  
'We',  
'Camelot',  
'We',  
'In',  
'Quite',  
'Between',  
'Clark',  
'Gable',  
'It',  
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'I',  
'Well',  
'Camelot',  
'It',  
'Right',  
'Right',  
'Arthur',  
'Arthur',  
'King',  
'Britons',  
'Oh',  
'One',  
'I',  
'Sorry',  
'And',  
'Every',  
'I',  
'I',  
'What',  
'I',  
'O',  
'Lord',  
'Well'

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'It',  
'Psalms',  
'Now',  
'Yes',  
'Lord',  
'Right',  
'Arthur',  
'King',  
'Britons',  
'Knights',  
'Round',  
'Table',  
'Good',  
'O',  
'Lord',  
'Course',  
'Behold',  
'Arthur',  
'Holy',  
'Grail',  
'Look',  
'Arthur',  
'That',  
'Arthur',  
'Holy',  
'Grail',  
'A',  
'A',  
'Lord',  
'God',  
'King',  
'Arthur',  
'Halt',  
'Hallo',  
'Hallo',  
'Allo',  
'Who',  
'It',  
'King',  
'Arthur',  
'Knights',  
'Round',  
'Table',  
'Who',  
'This',  
'Guy',  
'Loimbard',  
'Go',  
'God',  
'If',  
'Holy',  
'Grail',  
'Well',  
'I',  
'I',  
'Uh',  
'What',  
'He',  
'Are',  
'Oh',  
'I',  
'Well',  
'Of',  
'You',  
'English',  
'Well',  
'I',  
'French',  
'Why',  
'I',  
'What',  
'England',  
'Mind',  
'If',  
'Grail',  
'You',  
'English'

English',  
'Go',  
'I',  
'Arthur',  
'King',  
'English',  
'Thpppppt',  
'Thppt',  
'Thppt',  
'What',  
'Now',  
'I',  
'I',  
'You',  
'Is',  
'No',  
'I',  
'Now',  
'I',  
'Fetchez',  
'Quoi',  
'Fetchez',  
'If',  
'I',  
'Jesus',  
'Christ',  
'Christ',  
'Ah',  
'Ohh',  
'Right',  
'Charge',  
'Charge',  
'Hey',  
'There',  
'And',  
'Run',  
'Run',  
'Thpppppt',  
'Fiends',  
'I',  
'No',  
'No',  
'Sir',  
'I',  
'C',  
'Quoi',  
'Un',  
'What',  
'A',  
'Oh',  
'Oui',  
'Hurry',  
'What',  
'Let',  
'Oh',  
'On',  
'Bon',  
'Over',  
'What',  
'Well',  
'Launcelot',  
'Galahad',  
'I',  
'French',  
'Not',  
'Who',  
'U',  
'Launcelot',  
'Galahad',  
'I',  
'Uh',  
'Ohh',  
'Oh',  
'Um',  
'Run',  
'Run',  
'Run',  
'Run'

Run',  
'Run',  
'Run',  
'Run',  
'Oh',  
'Haw',  
'Haw',  
'Picture',  
'Schools',  
'Action',  
'Defeat',  
'King',  
'Arthur',  
'The',  
'French',  
'Arthur',  
'Holy',  
'Grail',  
'Arthur',  
'Grail',  
'Now',  
'Launcelot',  
'Aaaah',  
'S',  
'Frank',  
'The',  
'Tale',  
'Sir',  
'Robin',  
'So',  
'Sir',  
'Robin',  
'Ewing',  
'Bravely',  
'Sir',  
'Robin',  
'Camelot',  
'He',  
'O',  
'Sir',  
'Robin',  
'He',  
'Brave',  
'Sir',  
'Robin',  
'He',  
'Or',  
'To',  
'And',  
'Sir',  
'Robin',  
'His',  
'And',  
'And',  
'And',  
'That',  
'Heh',  
'Looks',  
'Anarcho',  
'Oh',  
'Dennis',  
'We',  
'Halt',  
'Who',  
'He',  
'Sir',  
'Robin',  
'Sir',  
'Robin',  
'Shut',  
'Um',  
'I',  
'What',  
'To',  
'Shut',  
'Um',  
'

'I',  
'Sir',  
'Knight',  
'I',  
'Ah',  
'W',  
'I',  
'I',  
'Knight',  
'Round',  
'Table',  
'You',  
'Knight',  
'Round',  
'Table',  
'I',  
'In',  
'I',  
'Shall',  
'I',  
'Oh',  
'I',  
'Well',  
'I',  
'I',  
'Oh',  
'Oh',  
'Perhaps',  
'I',  
'And',  
'Oh',  
'Get',  
'I',  
'Oh',  
'Yes',  
'What',  
'Yapping',  
'You',  
'You',  
'What',  
'You',  
'Oh',  
'I',  
'Anyway',  
'Well',  
'Oh',  
'Oh',  
'All',  
'All',  
'We',  
'Yes',  
'Oh',  
'All',  
'All',  
'Right',  
'He',  
'So',  
'He',  
'Brave',  
'Sir',  
'Robin',  
'No',  
'Bravely',  
'I',  
'When',  
'No',  
'Yes',  
'Sir',  
'Robin',  
'I',  
'And',  
'I',  
'He',  
'All',  
'Bravest',  
'Sir',  
'Robin',  
'I'



```

'I',
'Pie',
'Iesu',
'Heh',
'Pie',
'Iesu',
'Wayy',
'Ho',
'Woa',
'Heh',
'Heh',
'Wayy',
'Wayy',
'Forgive',
'Oh',
'Oooo',
'The',
'Tale',
'Sir',
'Galahad',
'Open',
'Open',
'In',
'King',
'Arthur',
'Hello',
'Welcome',
'Sir',
'Knight',
'Welcome',
'Castle',
'Anthrax',
'The',
...]
```

25. Define `sent` to be the list of words `['she', 'sells', 'sea', 'shells', 'by', 'the', 'sea', 'shore']`. Now write code to perform the following tasks:

a. Print all words beginning with `sh`.

b. Print all words longer than four characters.

In [47]:

```
sent = ['she', 'sells', 'sea', 'shells', 'by', 'the', 'sea', 'shore']
```

In [49]:

```
# a
for w in sent:
    if w.startswith('sh'):
        print(w)
```

```
she
shells
shore
```

In [50]:

```
# b
for w in sent:
    if len(w) > 4:
        print(w)
```

```
sells
shells
shore
```

26. What does the following Python code do? `sum(len(w) for w in text1)`. Can you use it to work out the average word

26. What does the following Python code do? `sum([len(w) for w in text1])`. Can you use it to work out the average word length of a text?

The above expression sums up all the numbers in the list.

In [54]:

```
avg_word_length = sum([len(w) for w in text1]) / len(text1)
avg_word_length
```

Out[54]:

3.830411128023649

27. Define a function called `vocab_size(text)`, that has a single parameter for the text, and which returns the vocabulary size of the text.

In [55]:

```
def vocab_size(text):
    return len(set(text))
```

28. Define a function `percent(word, text)`, that calculates how often a given word occurs in a text and express the result as a percentage.

In [65]:

```
def percent(word, text):
    freq_dist = FreqDist(text)
    percent = 100 * (freq_dist[word] / len(text))
    print(str(round(percent, 2)) + '%')
```

In [74]:

```
percent('the', text1)
```

5.26%

29. We have been using sets to store vocabularies. Try the following Python expression: `set(sent3) < set(text1)`. Experiment with this using different arguments to `set()`. What does it do? Can you think of a practical application for this?

In [75]:

```
set(sent3) < set(text1)
```

Out[75]:

True

In [76]:

```
set(sent1) < set(text1)
```

Out[76]:

True

In [77]:

```
A = ['a', 'b', 'c']
B = ['d', 'e', 'f']
S = ['a', 'b', 'c', 'e', 'f']
```

In [78]:

```
A < S
```

```
Out[78]:
```

```
True
```

```
In [79]:
```

```
B < S
```

```
Out[79]:
```

```
False
```

From this smaller example it can be seen that the way the relational operator works with sets is the same way as they work in mathematics.

A practical application could be to categorize customers/users.