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CSE 2100

Assignment 7

11/27/16

Note: If this error occurs, try running again until it works. Trust me it will, I could not figure out why this error was occurring then randomly not occurring:

A screenshot of a Java IDE's console window. The window has tabs for 'Problems', 'Javadoc', 'Declaration', and 'Console'. The 'Console' tab is active, showing a red error message: 'Exception in thread "main" java.lang.IllegalArgumentException: Comparison method violates its general contract!'. Below the error message is a stack trace listing several methods: 'at java.util.TimSort.mergeHi(Unknown Source)', 'at java.util.TimSort.mergeAt(Unknown Source)', 'at java.util.TimSort.mergeCollapse(Unknown Source)', 'at java.util.TimSort.sort(Unknown Source)', 'at java.util.Arrays.sort(Unknown Source)', 'at java.util.ArrayList.sort(Unknown Source)', 'at java.util.Collections.sort(Unknown Source)', 'at WordFinder.convertHashAndSort(WordFinder.java:215)', and 'at Main.main(Main.java:28)'.

```
<terminated> Main (5) [Java Application] C:\Program Files (x86)\Java\jre1.8.0_91\bin\javaw.exe (Nov 27, 2016, 7:56:48 PM)
Exception in thread "main" java.lang.IllegalArgumentException: Comparison method violates its general contract!
    at java.util.TimSort.mergeHi(Unknown Source)
    at java.util.TimSort.mergeAt(Unknown Source)
    at java.util.TimSort.mergeCollapse(Unknown Source)
    at java.util.TimSort.sort(Unknown Source)
    at java.util.Arrays.sort(Unknown Source)
    at java.util.ArrayList.sort(Unknown Source)
    at java.util.Collections.sort(Unknown Source)
    at WordFinder.convertHashAndSort(WordFinder.java:215)
    at Main.main(Main.java:28)
```

### **Description:**

The purpose of this project was to count the frequency of the words in all of Shakespeare's writings as well as show any words that repeat. To do this, I designed a program that used the implementation of a hashmap, ChainHashMap, given in the book. My program reads the text file of the writings line by line, to save run time and memory, then splits up the words in each line and adds them to a ChainHashMap and changes the value of each string key to match the frequency. Lastly, my program takes the ChainHashMap and puts all the entries into an ArrayList to sort the entries by the amount of times they appear as well as to print the sorted list later.

### **Tradeoffs:**

During the process of making the program I had a few tradeoffs that I considered. First, whether to read the text file line by line or word by word. Word by word could make my life easier and not have to separate each word in a line, but the run time and memory necessary is massive. So, in order to save memory and run time I chose to read line by line, which would make separating and putting into the ChainHashMap slightly more difficult later on, but worth it in the end. Next, I had to decide how to deal with words in the text file that were not formatted correctly, for example 'good' is not the same as good and my program would create two different entries for these cases. I could have gone into the text file and changed every mistake, which I semi did I only corrected a good amount not all, or I could code in specific instances where errors occur and alter them before being put into the ChainHashMap. I compromised on doing both of these things, as seen in the code, but it is still unknown if there are some cases which I missed or didn't think of which can alter the results of the program with incorrect frequency or words that aren't

words. Lastly, the last thing I debated was whether to use the specific put, remove, and get bucket methods the ChainHashMap class provided. These used hashcodes, but countless errors happened with space when trying to use them, so I just defaulted to the normal put, get, and remove methods, which are just as effective. This in turn also made it so I didn't have to override the string methods described in the project, equals and hashCode, because hashCode was only needed for the bucket methods, and equals can simply be done using a comparator implementation which I did. This cut down on more code and run time.

### **Extensions:**

Some possible extensions for my program would include getting a correctly formatted text file, or finding a way to correctly format every case. By having a correctly formatted text file, all the strange cases or misspellings of words, like Caesar being C sar, would have been avoidable and cut down any possible error. Also, having a method to properly fix all the bad formats in the text file would be even more useful, as it fully ensures no mistakes. To achieve this, finding all the mistake cases and coding in special if statements in my code to alter them to be correct formats is the only thing I'd need to do. Lastly, two small extensions that would help would be a possible correct way of using the ChainHashMap bucket methods and fixing the one mysterious error that occurs. This could have made organization, sorting, and printing a bit easier in the end, to achieve this obviously just learn to correctly use the methods, and by eliminating the strange error that occurs it would ensure my program is always working and has no errors which is always necessary in a working program.

### **Test Cases:**

For this project, there weren't really any specific test cases other than my results. There were many ways to reinforce my results though, which count towards the results being the best and only test case for my project. First, here are the top words used in the writings:

```
<terminated> Main (5) [Java Application] C:\Program Files (x86)\Java\jre1.8.  
Top 1000 most frequent words  
Word: the  
Number of times used: 26842  
Word: and  
Number of times used: 24125  
Word: I  
Number of times used: 20190  
Word: to  
Number of times used: 18588  
Word: of  
Number of times used: 16025  
Word: you  
Number of times used: 13877  
Word: A  
Number of times used: 13741  
Word: my  
Number of times used: 12291  
Word: that  
Number of times used: 10825  
Word: in  
Number of times used: 10548  
Word: is  
Number of times used: 9182  
Word: not  
Number of times used: 8483  
Word: me  
Number of times used: 7782  
Word: it  
Number of times used: 7768  
Word: for  
Number of times used: 7646  
Word: with  
Number of times used: 7148  
Word: be  
Number of times used: 6870  
Word: your  
Number of times used: 6763  
Word: this  
Number of times used: 6610  
Word: his  
Number of times used: 6571  
Word: he  
Number of times used: 6308  
Word: but  
Number of times used: 6168  
Word: have  
Number of times used: 5977  
Word: as  
Number of times used: 5682  
Word: thou  
Number of times used: 5354
```

As you can see, my end goal was successful in printing the top 1000 words, all words listed later, but how would I check this? The way I went about confirming whether my frequencies were correct was I took the frequency number that was printed and did a word search in a word document to see if the total words found was the same as the frequency. This method doesn't work for words like the, since the is inside many other words, so I took unique nouns, like Neptune and tongues, to check this. Here is the printed frequency for tongues and the word search count in a word document of the same text file:

Navigation

tongues

74 results

Headings

Pages

Results

Finds **tongues** in trees , books in the running brooks ,

and he renders me the beggarly thanks . Come , sing ; and you that will not , hold your **tongues** .

**Tongues** I'll hang on every tree ,

to the ark . Here comes a pair of very strange beasts , which in all **tongues** are called fools .

Lives in men's eyes , and will to ears and **tongues**

Not utter'd by base sale of chapmen's **tongues** .

When **tongues** speak sweetly , then they name her name ,

Lend me the flourish of all gentle **tongues** ,

The **tongues** of mocking wenches are as keen

Therefore all hearts in love use their own **tongues** ;

Out of all eyes , **tongues** , minds , and injuries .

Word: **tongues**

Number of times used: 74

As you can see, the frequencies of the word tongues match up completely. This unique noun ensures that all other word count is accurate as well. All cases in the word document are the word tongues, not instances like tongues'. Next, to ensure I had the top 1000 words, I simply took the printed-out frequencies and words and put them into an excel column. Since each word has two lines, the frequency and word, there should be 2001 cells used in the excel column, this includes the top 1000 most frequent words used line:

1980	Word: grows		
1981	Number of times used: 75		
1982	Word: others		
1983	Number of times used: 75		
1984	Word: scarce		
1985	Number of times used: 74		
1986	Word: brain		
1987	Number of times used: 74		
1988	Word: bones		
1989	Number of times used: 74		
1990	Word: tongues		
1991	Number of times used: 74		
1992	Word: blind		
1993	Number of times used: 74		
1994	Word: angelo		
1995	Number of times used: 74		
1996	Word: blessed		
1997	Number of times used: 74		
1998	Word: talbot		
1999	Number of times used: 74		
2000	Word: wood		
2001	Number of times used: 74		

As you can see, I have 2001 cells used as predicted, meaning I have the top 1000 most frequent words. Now, a special thing about this program is that there are multiple ties between words for 74 frequency, so the program will never output the same words for the last few of the top 1000. This makes sense as they are the same frequency the program will output the ones that are true as 74 frequency and they won't be the same. These words are still within the top 1000 technically, as they tie for 74, but I didn't include them in the final output. Instead I just took a screenshot as proof:

```

<terminated> Main (5) [Java Application] C:\Program F
Word: vow
Number of times used: 76
Word: holds
Number of times used: 76
Word: paris
Number of times used: 76
Word: ways
Number of times used: 75
Word: grows
Number of times used: 75
Word: wits
Number of times used: 75
Word: until
Number of times used: 75
Word: endure
Number of times used: 75
Word: borne
Number of times used: 75
Word: others
Number of times used: 75
Word: jove
Number of times used: 75
Word: prisoner
Number of times used: 75
Word: round
Number of times used: 75
Word: know'st
Number of times used: 75
Word: tongues
Number of times used: 74
Word: angelo
Number of times used: 74
Word: talbot
Number of times used: 74
Word: bones
Number of times used: 74
Word: woo
Number of times used: 74
Word: brain
Number of times used: 74
Word: although
Number of times used: 74
Word: terms
Number of times used: 74

<terminated> Main (5) [Java Application] C:\Program Files (x86)\Java
Word: grows
Number of times used: 75
Word: round
Number of times used: 75
Word: know'st
Number of times used: 75
Word: borne
Number of times used: 75
Word: wits
Number of times used: 75
Word: until
Number of times used: 75
Word: ways
Number of times used: 75
Word: jove
Number of times used: 75
Word: brain
Number of times used: 74
Word: terms
Number of times used: 74
Word: tongues
Number of times used: 74
Word: talbot
Number of times used: 74
Word: blind
Number of times used: 74
Word: angelo
Number of times used: 74
Word: blessed
Number of times used: 74
Word: forgive
Number of times used: 74
Word: yourselves
Number of times used: 74
Word: scarce
Number of times used: 74
Word: bones
Number of times used: 74
Word: although
Number of times used: 74
Word: woo
Number of times used: 74

```

As you can see all the words with frequency 74 are there in the second screenshot, but not the first. This is because the top 1000 don't include all the 74 frequency words. I just added this as a notice of this occurring, so if the end output of the 74 frequency is not consistent, you know why. Now, here is the top 1000 words used with their frequencies:

```

Top 1000 most frequent words
Word: the
Number of times used: 26842
Word: and
Number of times used: 24125
Word: I
Number of times used: 20190
Word: to
Number of times used: 18584
Word: of

```

Number of times used: 16021  
Word: you  
Number of times used: 13877  
Word: A  
Number of times used: 13741  
Word: my  
Number of times used: 12291  
Word: that  
Number of times used: 10822  
Word: in  
Number of times used: 10533  
Word: is  
Number of times used: 9182  
Word: not  
Number of times used: 8483  
Word: me  
Number of times used: 7782  
Word: it  
Number of times used: 7768  
Word: for  
Number of times used: 7644  
Word: with  
Number of times used: 7146  
Word: be  
Number of times used: 6871  
Word: your  
Number of times used: 6763  
Word: this  
Number of times used: 6610  
Word: his  
Number of times used: 6571  
Word: he  
Number of times used: 6308  
Word: but  
Number of times used: 6168  
Word: have  
Number of times used: 5977  
Word: as  
Number of times used: 5682  
Word: thou  
Number of times used: 5354  
Word: him  
Number of times used: 5142  
Word: so  
Number of times used: 5011  
Word: will  
Number of times used: 5001  
Word: what  
Number of times used: 4490  
Word: thy  
Number of times used: 3812  
Word: her  
Number of times used: 3802  
Word: do  
Number of times used: 3792  
Word: no  
Number of times used: 3761

Word: by  
Number of times used: 3670  
Word: all  
Number of times used: 3645  
Word: shall  
Number of times used: 3597  
Word: if  
Number of times used: 3547  
Word: are  
Number of times used: 3417  
Word: we  
Number of times used: 3386  
Word: our  
Number of times used: 3115  
Word: thee  
Number of times used: 3105  
Word: on  
Number of times used: 2974  
Word: good  
Number of times used: 2809  
Word: now  
Number of times used: 2794  
Word: lord  
Number of times used: 2716  
Word: come  
Number of times used: 2564  
Word: from  
Number of times used: 2555  
Word: sir  
Number of times used: 2539  
Word: at  
Number of times used: 2436  
Word: or  
Number of times used: 2351  
Word: they  
Number of times used: 2330  
Word: would  
Number of times used: 2330  
Word: more  
Number of times used: 2297  
Word: was  
Number of times used: 2272  
Word: which  
Number of times used: 2250  
Word: O  
Number of times used: 2238  
Word: she  
Number of times used: 2225  
Word: well  
Number of times used: 2196  
Word: how  
Number of times used: 2176  
Word: here  
Number of times used: 2164  
Word: am  
Number of times used: 2160  
Word: then



Number of times used: 2134  
Word: let  
Number of times used: 2099  
Word: their  
Number of times used: 1985  
Word: when  
Number of times used: 1967  
Word: them  
Number of times used: 1966  
Word: hath  
Number of times used: 1916  
Word: love  
Number of times used: 1913  
Word: than  
Number of times used: 1873  
Word: there  
Number of times used: 1832  
Word: man  
Number of times used: 1807  
Word: one  
Number of times used: 1735  
Word: go  
Number of times used: 1735  
Word: upon  
Number of times used: 1727  
Word: like  
Number of times used: 1716  
Word: us  
Number of times used: 1685  
Word: know  
Number of times used: 1676  
Word: say  
Number of times used: 1672  
Word: an  
Number of times used: 1666  
Word: may  
Number of times used: 1665  
Word: make  
Number of times used: 1638  
Word: did  
Number of times used: 1623  
Word: were  
Number of times used: 1591  
Word: yet  
Number of times used: 1562  
Word: should  
Number of times used: 1555  
Word: must  
Number of times used: 1508  
Word: why  
Number of times used: 1480  
Word: had  
Number of times used: 1446  
Word: see  
Number of times used: 1439  
Word: 'tis  
Number of times used: 1407

Word: such  
Number of times used: 1387  
Word: king  
Number of times used: 1362  
Word: out  
Number of times used: 1352  
Word: give  
Number of times used: 1343  
Word: these  
Number of times used: 1323  
Word: some  
Number of times used: 1296  
Word: too  
Number of times used: 1244  
Word: where  
Number of times used: 1232  
Word: who  
Number of times used: 1211  
Word: take  
Number of times used: 1210  
Word: can  
Number of times used: 1201  
Word: speak  
Number of times used: 1193  
Word: most  
Number of times used: 1177  
Word: mine  
Number of times used: 1146  
Word: tell  
Number of times used: 1064  
Word: up  
Number of times used: 1048  
Word: think  
Number of times used: 1036  
Word: much  
Number of times used: 1025  
Word: never  
Number of times used: 1022  
Word: time  
Number of times used: 1007  
Word: heart  
Number of times used: 941  
Word: nor  
Number of times used: 931  
Word: hear  
Number of times used: 897  
Word: great  
Number of times used: 895  
Word: art  
Number of times used: 886  
Word: men  
Number of times used: 864  
Word: doth  
Number of times used: 864  
Word: death  
Number of times used: 860  
Word: life

Number of times used: 842  
Word: away  
Number of times used: 836  
Word: father  
Number of times used: 831  
Word: look  
Number of times used: 824  
Word: made  
Number of times used: 819  
Word: very  
Number of times used: 817  
Word: hand  
Number of times used: 808  
Word: any  
Number of times used: 781  
Word: ay  
Number of times used: 779  
Word: god  
Number of times used: 776  
Word: master  
Number of times used: 774  
Word: cannot  
Number of times used: 765  
Word: thus  
Number of times used: 762  
Word: true  
Number of times used: 761  
Word: again  
Number of times used: 745  
Word: pray  
Number of times used: 745  
Word: own  
Number of times used: 744  
Word: sweet  
Number of times used: 732  
Word: fair  
Number of times used: 725  
Word: been  
Number of times used: 720  
Word: before  
Number of times used: 706  
Word: day  
Number of times used: 702  
Word: done  
Number of times used: 672  
Word: leave  
Number of times used: 656  
Word: name  
Number of times used: 654  
Word: eyes  
Number of times used: 643  
Word: being  
Number of times used: 642  
Word: honour  
Number of times used: 642  
Word: heaven  
Number of times used: 636

Word: blood  
Number of times used: 635  
Word: into  
Number of times used: 634  
Word: lady  
Number of times used: 629  
Word: fear  
Number of times used: 626  
Word: nothing  
Number of times used: 625  
Word: noble  
Number of times used: 624  
Word: therefore  
Number of times used: 621  
Word: till  
Number of times used: 621  
Word: could  
Number of times used: 621  
Word: poor  
Number of times used: 620  
Word: old  
Number of times used: 617  
Word: son  
Number of times used: 614  
Word: though  
Number of times used: 611  
Word: world  
Number of times used: 608  
Word: down  
Number of times used: 607  
Word: ever  
Number of times used: 604  
Word: whose  
Number of times used: 603  
Word: comes  
Number of times used: 602  
Word: both  
Number of times used: 592  
Word: nay  
Number of times used: 590  
Word: better  
Number of times used: 590  
Word: hast  
Number of times used: 590  
Word: even  
Number of times used: 579  
Word: myself  
Number of times used: 575  
Word: against  
Number of times used: 575  
Word: other  
Number of times used: 572  
Word: call  
Number of times used: 572  
Word: grace  
Number of times used: 571  
Word: night

Number of times used: 564  
Word: two  
Number of times used: 563  
Word: way  
Number of times used: 563  
Word: many  
Number of times used: 555  
Word: stand  
Number of times used: 551  
Word: peace  
Number of times used: 539  
Word: first  
Number of times used: 534  
Word: brother  
Number of times used: 533  
Word: dead  
Number of times used: 531  
Word: those  
Number of times used: 530  
Word: bear  
Number of times used: 529  
Word: madam  
Number of times used: 516  
Word: find  
Number of times used: 513  
Word: still  
Number of times used: 510  
Word: live  
Number of times used: 510  
Word: every  
Number of times used: 508  
Word: word  
Number of times used: 502  
Word: duke  
Number of times used: 501  
Word: put  
Number of times used: 493  
Word: head  
Number of times used: 490  
Word: little  
Number of times used: 489  
Word: keep  
Number of times used: 485  
Word: might  
Number of times used: 483  
Word: die  
Number of times used: 479  
Word: friends  
Number of times used: 476  
Word: none  
Number of times used: 471  
Word: gone  
Number of times used: 465  
Word: wife  
Number of times used: 462  
Word: whom  
Number of times used: 461

Word: bring  
Number of times used: 450  
Word: off  
Number of times used: 450  
Word: hold  
Number of times used: 450  
Word: set  
Number of times used: 447  
Word: indeed  
Number of times used: 444  
Word: himself  
Number of times used: 442  
Word: part  
Number of times used: 441  
Word: unto  
Number of times used: 439  
Word: 't  
Number of times used: 436  
Word: long  
Number of times used: 435  
Word: since  
Number of times used: 435  
Word: soul  
Number of times used: 433  
Word: dear  
Number of times used: 432  
Word: queen  
Number of times used: 431  
Word: best  
Number of times used: 429  
Word: young  
Number of times used: 418  
Word: thine  
Number of times used: 417  
Word: stay  
Number of times used: 415  
Word: daughter  
Number of times used: 415  
Word: else  
Number of times used: 414  
Word: full  
Number of times used: 414  
Word: once  
Number of times used: 413  
Word: friend  
Number of times used: 412  
Word: that's  
Number of times used: 411  
Word: words  
Number of times used: 410  
Word: thing  
Number of times used: 406  
Word: house  
Number of times used: 406  
Word: dost  
Number of times used: 405  
Word: face

Number of times used: 405  
Word: faith  
Number of times used: 404  
Word: show  
Number of times used: 401  
Word: please  
Number of times used: 397  
Word: place  
Number of times used: 397  
Word: about  
Number of times used: 395  
Word: there's  
Number of times used: 395  
Word: tongue  
Number of times used: 390  
Word: has  
Number of times used: 387  
Word: said  
Number of times used: 386  
Word: answer  
Number of times used: 385  
Word: eye  
Number of times used: 382  
Word: after  
Number of times used: 381  
Word: mistress  
Number of times used: 377  
Word: fool  
Number of times used: 373  
Word: france  
Number of times used: 373  
Word: welcome  
Number of times used: 372  
Word: marry  
Number of times used: 370  
Word: forth  
Number of times used: 368  
Word: prince  
Number of times used: 367  
Word: thought  
Number of times used: 361  
Word: hence  
Number of times used: 359  
Word: ere  
Number of times used: 358  
Word: farewell  
Number of times used: 358  
Word: hope  
Number of times used: 357  
Word: matter  
Number of times used: 355  
Word: lords  
Number of times used: 355  
Word: gentle  
Number of times used: 354  
Word: without  
Number of times used: 354

Word: caesar  
Number of times used: 354  
Word: heard  
Number of times used: 349  
Word: boy  
Number of times used: 347  
Word: mind  
Number of times used: 347  
Word: came  
Number of times used: 345  
Word: what's  
Number of times used: 344  
Word: nature  
Number of times used: 344  
Word: makes  
Number of times used: 342  
Word: cause  
Number of times used: 342  
Word: right  
Number of times used: 336  
Word: home  
Number of times used: 336  
Word: rest  
Number of times used: 335  
Word: mother  
Number of times used: 335  
Word: bid  
Number of times used: 335  
Word: does  
Number of times used: 333  
Word: gods  
Number of times used: 332  
Word: power  
Number of times used: 330  
Word: three  
Number of times used: 330  
Word: rather  
Number of times used: 328  
Word: sword  
Number of times used: 325  
Word: we'll  
Number of times used: 325  
Word: fortune  
Number of times used: 324  
Word: another  
Number of times used: 323  
Word: things  
Number of times used: 323  
Word: meet  
Number of times used: 322  
Word: back  
Number of times used: 322  
Word: thousand  
Number of times used: 320  
Word: use  
Number of times used: 319  
Word: woman



Number of times used: 319  
Word: enough  
Number of times used: 318  
Word: news  
Number of times used: 317  
Word: hands  
Number of times used: 315  
Word: help  
Number of times used: 315  
Word: only  
Number of times used: 312  
Word: get  
Number of times used: 311  
Word: within  
Number of times used: 310  
Word: truth  
Number of times used: 309  
Word: he's  
Number of times used: 307  
Word: follow  
Number of times used: 306  
Word: fellow  
Number of times used: 305  
Word: lie  
Number of times used: 303  
Word: hither  
Number of times used: 303  
Word: pardon  
Number of times used: 301  
Word: wilt  
Number of times used: 299  
Word: thank  
Number of times used: 298  
Word: end  
Number of times used: 298  
Word: sure  
Number of times used: 298  
Word: earth  
Number of times used: 296  
Word: fall  
Number of times used: 295  
Word: mean  
Number of times used: 292  
Word: hour  
Number of times used: 292  
Word: shame  
Number of times used: 291  
Word: play  
Number of times used: 291  
Word: honest  
Number of times used: 291  
Word: husband  
Number of times used: 289  
Word: gentleman  
Number of times used: 287  
Word: state  
Number of times used: 287

Word: shalt  
Number of times used: 286  
Word: rome  
Number of times used: 285  
Word: tears  
Number of times used: 284  
Word: yourself  
Number of times used: 282  
Word: ye  
Number of times used: 280  
Word: last  
Number of times used: 278  
Word: lay  
Number of times used: 278  
Word: reason  
Number of times used: 277  
Word: turn  
Number of times used: 271  
Word: false  
Number of times used: 270  
Word: far  
Number of times used: 269  
Word: sent  
Number of times used: 268  
Word: kind  
Number of times used: 267  
Word: john  
Number of times used: 265  
Word: under  
Number of times used: 265  
Word: bed  
Number of times used: 263  
Word: saw  
Number of times used: 263  
Word: light  
Number of times used: 263  
Word: means  
Number of times used: 262  
Word: through  
Number of times used: 261  
Word: while  
Number of times used: 258  
Word: majesty  
Number of times used: 258  
Word: lost  
Number of times used: 258  
Word: seen  
Number of times used: 258  
Word: crown  
Number of times used: 257  
Word: let's  
Number of times used: 257  
Word: cousin  
Number of times used: 256  
Word: youth  
Number of times used: 256  
Word: yours

Number of times used: 255  
Word: together  
Number of times used: 255  
Word: send  
Number of times used: 255  
Word: fire  
Number of times used: 255  
Word: wit  
Number of times used: 254  
Word: break  
Number of times used: 252  
Word: believe  
Number of times used: 251  
Word: sleep  
Number of times used: 251  
Word: swear  
Number of times used: 251  
Word: left  
Number of times used: 249  
Word: villain  
Number of times used: 249  
Word: arms  
Number of times used: 247  
Word: itself  
Number of times used: 246  
Word: prove  
Number of times used: 245  
Word: war  
Number of times used: 245  
Word: england  
Number of times used: 244  
Word: spirit  
Number of times used: 244  
Word: present  
Number of times used: 243  
Word: strange  
Number of times used: 243  
Word: court  
Number of times used: 242  
Word: fight  
Number of times used: 239  
Word: father's  
Number of times used: 236  
Word: fly  
Number of times used: 234  
Word: further  
Number of times used: 234  
Word: says  
Number of times used: 234  
Word: thoughts  
Number of times used: 234  
Word: business  
Number of times used: 233  
Word: mad  
Number of times used: 232  
Word: wrong  
Number of times used: 230

Word: alas  
Number of times used: 229  
Word: ne'er  
Number of times used: 229  
Word: beseech  
Number of times used: 228  
Word: seek  
Number of times used: 228  
Word: lies  
Number of times used: 228  
Word: body  
Number of times used: 228  
Word: high  
Number of times used: 227  
Word: less  
Number of times used: 227  
Word: told  
Number of times used: 227  
Word: mark  
Number of times used: 227  
Word: prithee  
Number of times used: 226  
Word: to-morrow  
Number of times used: 226  
Word: child  
Number of times used: 224  
Word: sea  
Number of times used: 223  
Word: found  
Number of times used: 222  
Word: gave  
Number of times used: 222  
Word: between  
Number of times used: 221  
Word: gold  
Number of times used: 220  
Word: worthy  
Number of times used: 219  
Word: service  
Number of times used: 219  
Word: ill  
Number of times used: 218  
Word: bloody  
Number of times used: 218  
Word: horse  
Number of times used: 218  
Word: devil  
Number of times used: 218  
Word: desire  
Number of times used: 217  
Word: wish  
Number of times used: 217  
Word: care  
Number of times used: 217  
Word: royal  
Number of times used: 216  
Word: each

Number of times used: 216  
Word: pity  
Number of times used: 216  
Word: near  
Number of times used: 215  
Word: here's  
Number of times used: 214  
Word: york  
Number of times used: 214  
Word: sit  
Number of times used: 214  
Word: grief  
Number of times used: 213  
Word: sun  
Number of times used: 212  
Word: foul  
Number of times used: 212  
Word: yes  
Number of times used: 210  
Word: land  
Number of times used: 209  
Word: save  
Number of times used: 208  
Word: half  
Number of times used: 208  
Word: purpose  
Number of times used: 207  
Word: breath  
Number of times used: 207  
Word: alone  
Number of times used: 207  
Word: thyself  
Number of times used: 206  
Word: antony  
Number of times used: 206  
Word: letter  
Number of times used: 204  
Word: same  
Number of times used: 204  
Word: dare  
Number of times used: 203  
Word: draw  
Number of times used: 202  
Word: cry  
Number of times used: 202  
Word: looks  
Number of times used: 201  
Word: happy  
Number of times used: 201  
Word: ha  
Number of times used: 201  
Word: lose  
Number of times used: 200  
Word: company  
Number of times used: 200  
Word: charge  
Number of times used: 200

Word: return  
Number of times used: 200  
Word: knows  
Number of times used: 199  
Word: read  
Number of times used: 199  
Word: talk  
Number of times used: 198  
Word: joy  
Number of times used: 198  
Word: brought  
Number of times used: 197  
Word: ho  
Number of times used: 197  
Word: ear  
Number of times used: 197  
Word: times  
Number of times used: 197  
Word: kill  
Number of times used: 195  
Word: remember  
Number of times used: 195  
Word: lives  
Number of times used: 195  
Word: worth  
Number of times used: 194  
Word: air  
Number of times used: 193  
Word: known  
Number of times used: 193  
Word: wear  
Number of times used: 193  
Word: law  
Number of times used: 193  
Word: holy  
Number of times used: 193  
Word: to-night  
Number of times used: 192  
Word: gracious  
Number of times used: 191  
Word: people  
Number of times used: 191  
Word: patience  
Number of times used: 191  
Word: proud  
Number of times used: 190  
Word: gentlemen  
Number of times used: 189  
Word: loves  
Number of times used: 189  
Word: because  
Number of times used: 189  
Word: comfort  
Number of times used: 189  
Word: general  
Number of times used: 189  
Word: given

Number of times used: 189  
Word: late  
Number of times used: 189  
Word: free  
Number of times used: 188  
Word: serve  
Number of times used: 188  
Word: run  
Number of times used: 188  
Word: neither  
Number of times used: 186  
Word: sight  
Number of times used: 185  
Word: virtue  
Number of times used: 185  
Word: uncle  
Number of times used: 185  
Word: kiss  
Number of times used: 184  
Word: yea  
Number of times used: 184  
Word: cold  
Number of times used: 183  
Word: need  
Number of times used: 182  
Word: days  
Number of times used: 182  
Word: years  
Number of times used: 182  
Word: didst  
Number of times used: 182  
Word: work  
Number of times used: 181  
Word: new  
Number of times used: 180  
Word: age  
Number of times used: 180  
Word: warrant  
Number of times used: 180  
Word: grave  
Number of times used: 179  
Word: sorrow  
Number of times used: 179  
Word: sister  
Number of times used: 178  
Word: something  
Number of times used: 178  
Word: doubt  
Number of times used: 178  
Word: money  
Number of times used: 177  
Word: wind  
Number of times used: 177  
Word: maid  
Number of times used: 177  
Word: bound  
Number of times used: 176

Word: strong  
Number of times used: 176  
Word: henry  
Number of times used: 176  
Word: pleasure  
Number of times used: 175  
Word: ah  
Number of times used: 175  
Word: trust  
Number of times used: 174  
Word: command  
Number of times used: 174  
Word: canst  
Number of times used: 173  
Word: seem  
Number of times used: 173  
Word: mercy  
Number of times used: 173  
Word: thanks  
Number of times used: 173  
Word: born  
Number of times used: 171  
Word: cut  
Number of times used: 170  
Word: sound  
Number of times used: 170  
Word: merry  
Number of times used: 170  
Word: weep  
Number of times used: 168  
Word: ask  
Number of times used: 168  
Word: truly  
Number of times used: 168  
Word: hearts  
Number of times used: 167  
Word: goes  
Number of times used: 167  
Word: either  
Number of times used: 167  
Word: knave  
Number of times used: 167  
Word: fit  
Number of times used: 166  
Word: hang  
Number of times used: 166  
Word: sake  
Number of times used: 166  
Word: certain  
Number of times used: 166  
Word: warwick  
Number of times used: 165  
Word: ears  
Number of times used: 165  
Word: 'twas  
Number of times used: 165  
Word: hate



Number of times used: 164  
Word: foot  
Number of times used: 164  
Word: worse  
Number of times used: 164  
Word: fault  
Number of times used: 164  
Word: heavy  
Number of times used: 163  
Word: to-day  
Number of times used: 163  
Word: next  
Number of times used: 163  
Word: almost  
Number of times used: 163  
Word:  
Number of times used: 162  
Word: justice  
Number of times used: 161  
Word: wise  
Number of times used: 161  
Word: hard  
Number of times used: 161  
Word: rich  
Number of times used: 160  
Word: ground  
Number of times used: 160  
Word: base  
Number of times used: 159  
Word: haste  
Number of times used: 159  
Word: she's  
Number of times used: 158  
Word: you'll  
Number of times used: 158  
Word: took  
Number of times used: 157  
Word: brave  
Number of times used: 157  
Word: enemy  
Number of times used: 157  
Word: praise  
Number of times used: 157  
Word: strike  
Number of times used: 157  
Word: voice  
Number of times used: 156  
Word: having  
Number of times used: 156  
Word: music  
Number of times used: 156  
Word: richard  
Number of times used: 156  
Word: course  
Number of times used: 156  
Word: hark  
Number of times used: 156

Word: content  
Number of times used: 156  
Word: valiant  
Number of times used: 155  
Word: fie  
Number of times used: 155  
Word: deed  
Number of times used: 155  
Word: sin  
Number of times used: 154  
Word: man's  
Number of times used: 154  
Word: drink  
Number of times used: 154  
Word: women  
Number of times used: 153  
Word: field  
Number of times used: 153  
Word: ring  
Number of times used: 153  
Word: revenge  
Number of times used: 153  
Word: behold  
Number of times used: 153  
Word: sad  
Number of times used: 153  
Word: knew  
Number of times used: 152  
Word: french  
Number of times used: 152  
Word: hell  
Number of times used: 152  
Word: beauty  
Number of times used: 152  
Word: unless  
Number of times used: 152  
Word: sick  
Number of times used: 151  
Word: 'em  
Number of times used: 151  
Word: straight  
Number of times used: 151  
Word: side  
Number of times used: 151  
Word: stands  
Number of times used: 150  
Word: over  
Number of times used: 150  
Word: brutus  
Number of times used: 150  
Word: spoke  
Number of times used: 150  
Word: common  
Number of times used: 150  
Word: change  
Number of times used: 149  
Word: methinks

Number of times used: 149  
Word: note  
Number of times used: 148  
Word: duty  
Number of times used: 148  
Word: hot  
Number of times used: 148  
Word: themselves  
Number of times used: 148  
Word: already  
Number of times used: 147  
Word: report  
Number of times used: 147  
Word: king's  
Number of times used: 147  
Word: heavens  
Number of times used: 147  
Word: yield  
Number of times used: 147  
Word: ready  
Number of times used: 147  
Word: sirrah  
Number of times used: 147  
Word: withal  
Number of times used: 146  
Word: oath  
Number of times used: 146  
Word: eat  
Number of times used: 145  
Word: highness  
Number of times used: 145  
Word: question  
Number of times used: 145  
Word: soon  
Number of times used: 144  
Word: person  
Number of times used: 144  
Word: lead  
Number of times used: 144  
Word: coming  
Number of times used: 144  
Word: presently  
Number of times used: 144  
Word: become  
Number of times used: 144  
Word: ten  
Number of times used: 144  
Word: english  
Number of times used: 143  
Word: arm  
Number of times used: 143  
Word: sons  
Number of times used: 143  
Word: married  
Number of times used: 143  
Word: past  
Number of times used: 143

Word: black  
Number of times used: 143  
Word: open  
Number of times used: 142  
Word: dog  
Number of times used: 142  
Word: just  
Number of times used: 141  
Word: lest  
Number of times used: 141  
Word: pay  
Number of times used: 140  
Word: oft  
Number of times used: 140  
Word: wherefore  
Number of times used: 139  
Word: lov'd  
Number of times used: 139  
Word: liege  
Number of times used: 139  
Word: point  
Number of times used: 139  
Word: call'd  
Number of times used: 138  
Word: wars  
Number of times used: 138  
Word: needs  
Number of times used: 137  
Word: edward  
Number of times used: 137  
Word: suit  
Number of times used: 137  
Word: want  
Number of times used: 137  
Word: sing  
Number of times used: 137  
Word: fare  
Number of times used: 137  
Word: country  
Number of times used: 137  
Word: flesh  
Number of times used: 136  
Word: pass  
Number of times used: 136  
Word: met  
Number of times used: 134  
Word: deny  
Number of times used: 134  
Word: soldier  
Number of times used: 133  
Word: knight  
Number of times used: 133  
Word: signior  
Number of times used: 133  
Word: bold  
Number of times used: 133  
Word: grow

Number of times used: 132  
Word: lips  
Number of times used: 131  
Word: god's  
Number of times used: 131  
Word: speech  
Number of times used: 131  
Word: sworn  
Number of times used: 131  
Word: glad  
Number of times used: 131  
Word: tender  
Number of times used: 130  
Word: four  
Number of times used: 130  
Word: twenty  
Number of times used: 130  
Word: deep  
Number of times used: 129  
Word: wouldst  
Number of times used: 129  
Word: wherein  
Number of times used: 129  
Word: counsel  
Number of times used: 129  
Word: de  
Number of times used: 128  
Word: favour  
Number of times used: 128  
Word: hector  
Number of times used: 127  
Word: mouth  
Number of times used: 127  
Word: walk  
Number of times used: 127  
Word: traitor  
Number of times used: 127  
Word: fetch  
Number of times used: 127  
Word: anon  
Number of times used: 126  
Word: captain  
Number of times used: 126  
Word: hours  
Number of times used: 126  
Word: appear  
Number of times used: 126  
Word: office  
Number of times used: 126  
Word: pale  
Number of times used: 125  
Word: confess  
Number of times used: 125  
Word: above  
Number of times used: 124  
Word: honourable  
Number of times used: 124

Word: moon  
Number of times used: 123  
Word: bad  
Number of times used: 123  
Word: fast  
Number of times used: 123  
Word: beat  
Number of times used: 123  
Word: bosom  
Number of times used: 123  
Word: fell  
Number of times used: 123  
Word: water  
Number of times used: 122  
Word: witness  
Number of times used: 122  
Word: conscience  
Number of times used: 122  
Word: act  
Number of times used: 122  
Word: sovereign  
Number of times used: 122  
Word: got  
Number of times used: 122  
Word: whole  
Number of times used: 122  
Word: sport  
Number of times used: 121  
Word: spirits  
Number of times used: 121  
Word: sense  
Number of times used: 121  
Word: letters  
Number of times used: 121  
Word: slain  
Number of times used: 121  
Word: pretty  
Number of times used: 121  
Word: attend  
Number of times used: 121  
Word: page  
Number of times used: 121  
Word: excellent  
Number of times used: 121  
Word: city  
Number of times used: 121  
Word: woe  
Number of times used: 121  
Word: morrow  
Number of times used: 120  
Word: morning  
Number of times used: 120  
Word: dream  
Number of times used: 120  
Word: vile  
Number of times used: 119  
Word: slave

Number of times used: 119  
Word: 'twere  
Number of times used: 119  
Word: wonder  
Number of times used: 119  
Word: speaks  
Number of times used: 119  
Word: is't  
Number of times used: 119  
Word: loss  
Number of times used: 119  
Word: living  
Number of times used: 118  
Word: town  
Number of times used: 117  
Word: gives  
Number of times used: 117  
Word: rage  
Number of times used: 117  
Word: fortunes  
Number of times used: 117  
Word: strength  
Number of times used: 117  
Word: win  
Number of times used: 117  
Word: soft  
Number of times used: 117  
Word: ourselves  
Number of times used: 116  
Word: often  
Number of times used: 116  
Word: romeo  
Number of times used: 116  
Word: lordship  
Number of times used: 116  
Word: five  
Number of times used: 115  
Word: along  
Number of times used: 115  
Word: kings  
Number of times used: 114  
Word: entreat  
Number of times used: 114  
Word: watch  
Number of times used: 113  
Word: longer  
Number of times used: 113  
Word: write  
Number of times used: 113  
Word: action  
Number of times used: 113  
Word: touch  
Number of times used: 113  
Word: murder  
Number of times used: 113  
Word: seems  
Number of times used: 113

Word: begin  
Number of times used: 113  
Word: hair  
Number of times used: 112  
Word: servant  
Number of times used: 112  
Word: mighty  
Number of times used: 112  
Word: cassio  
Number of times used: 112  
Word: white  
Number of times used: 111  
Word: speed  
Number of times used: 111  
Word: marriage  
Number of times used: 111  
Word: he'll  
Number of times used: 111  
Word: quickly  
Number of times used: 111  
Word: offence  
Number of times used: 110  
Word: saint  
Number of times used: 110  
Word: soldiers  
Number of times used: 110  
Word: hundred  
Number of times used: 110  
Word: judgment  
Number of times used: 109  
Word: gloucester  
Number of times used: 109  
Word: issue  
Number of times used: 109  
Word: loving  
Number of times used: 109  
Word: souls  
Number of times used: 108  
Word: besides  
Number of times used: 108  
Word: teach  
Number of times used: 108  
Word: valour  
Number of times used: 108  
Word: grant  
Number of times used: 107  
Word: door  
Number of times used: 107  
Word: children  
Number of times used: 107  
Word: heir  
Number of times used: 107  
Word: kate  
Number of times used: 107  
Word: harry  
Number of times used: 107  
Word: died



Number of times used: 107  
Word: bless  
Number of times used: 107  
Word: deeds  
Number of times used: 107  
Word: presence  
Number of times used: 106  
Word: passion  
Number of times used: 106  
Word: tale  
Number of times used: 106  
Word: masters  
Number of times used: 106  
Word: princes  
Number of times used: 106  
Word: bears  
Number of times used: 105  
Word: throw  
Number of times used: 105  
Word: respect  
Number of times used: 105  
Word: hide  
Number of times used: 104  
Word: cast  
Number of times used: 104  
Word: close  
Number of times used: 104  
Word: feel  
Number of times used: 104  
Word: danger  
Number of times used: 103  
Word: parts  
Number of times used: 103  
Word: force  
Number of times used: 103  
Word: dangerous  
Number of times used: 103  
Word: heads  
Number of times used: 103  
Word: case  
Number of times used: 103  
Word: hadst  
Number of times used: 103  
Word: pluck  
Number of times used: 103  
Word: chance  
Number of times used: 103  
Word: wisdom  
Number of times used: 103  
Word: feast  
Number of times used: 103  
Word: jest  
Number of times used: 103  
Word: whilst  
Number of times used: 102  
Word: health  
Number of times used: 102

Word: enemies  
Number of times used: 101  
Word: weak  
Number of times used: 101  
Word: deliver  
Number of times used: 101  
Word: choose  
Number of times used: 101  
Word: promise  
Number of times used: 101  
Word: where's  
Number of times used: 101  
Word: beg  
Number of times used: 101  
Word: behind  
Number of times used: 100  
Word: quick  
Number of times used: 100  
Word: ladies  
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Word: went  
Number of times used: 100  
Word: curse  
Number of times used: 100  
Word: pride  
Number of times used: 100  
Word: adieu  
Number of times used: 99  
Word: fools  
Number of times used: 99  
Word: understand  
Number of times used: 99  
Word: move  
Number of times used: 99  
Word: claudio  
Number of times used: 98  
Word: shake  
Number of times used: 98  
Word: second  
Number of times used: 98  
Word: toward  
Number of times used: 97  
Word: plain  
Number of times used: 97  
Word: subject  
Number of times used: 97  
Word: stop  
Number of times used: 97  
Word: worst  
Number of times used: 97  
Word: troth  
Number of times used: 97  
Word: awhile  
Number of times used: 97  
Word: humour  
Number of times used: 97  
Word: buy

Number of times used: 96  
Word: form  
Number of times used: 96  
Word: fashion  
Number of times used: 96  
Word: writ  
Number of times used: 96  
Word: mortal  
Number of times used: 96  
Word: count  
Number of times used: 96  
Word: battle  
Number of times used: 96  
Word: quarrel  
Number of times used: 96  
Word: going  
Number of times used: 96  
Word: least  
Number of times used: 96  
Word: virtuous  
Number of times used: 96  
Word: receive  
Number of times used: 96  
Word: consent  
Number of times used: 96  
Word: wert  
Number of times used: 95  
Word: angry  
Number of times used: 95  
Word: title  
Number of times used: 95  
Word: roman  
Number of times used: 95  
Word: herself  
Number of times used: 95  
Word: stood  
Number of times used: 95  
Word: clarence  
Number of times used: 95  
Word: foolish  
Number of times used: 94  
Word: thither  
Number of times used: 94  
Word: judge  
Number of times used: 94  
Word: kept  
Number of times used: 94  
Word: blow  
Number of times used: 94  
Word: prayers  
Number of times used: 94  
Word: hurt  
Number of times used: 94  
Word: shows  
Number of times used: 94  
Word: kingdom  
Number of times used: 93

Word: scorn  
Number of times used: 93  
Word: march  
Number of times used: 93  
Word: won  
Number of times used: 93  
Word: worship  
Number of times used: 93  
Word: 'gainst  
Number of times used: 93  
Word: forget  
Number of times used: 93  
Word: plague  
Number of times used: 92  
Word: sorry  
Number of times used: 92  
Word: whither  
Number of times used: 92  
Word: lend  
Number of times used: 92  
Word: treason  
Number of times used: 92  
Word: piece  
Number of times used: 92  
Word: ta'en  
Number of times used: 92  
Word: harm  
Number of times used: 91  
Word: lack  
Number of times used: 91  
Word: faults  
Number of times used: 91  
Word: commend  
Number of times used: 91  
Word: shallow  
Number of times used: 91  
Word: among  
Number of times used: 91  
Word: offer  
Number of times used: 91  
Word: fine  
Number of times used: 91  
Word: taken  
Number of times used: 91  
Word: try  
Number of times used: 90  
Word: pains  
Number of times used: 90  
Word: earl  
Number of times used: 90  
Word: low  
Number of times used: 90  
Word: alive  
Number of times used: 90  
Word: ours  
Number of times used: 90  
Word: measure

Number of times used: 90  
Word: fearful  
Number of times used: 89  
Word: labour  
Number of times used: 89  
Word: perceive  
Number of times used: 89  
Word: brief  
Number of times used: 88  
Word: gates  
Number of times used: 88  
Word: chamber  
Number of times used: 88  
Word: noise  
Number of times used: 88  
Word: order  
Number of times used: 88  
Word: guard  
Number of times used: 88  
Word: ass  
Number of times used: 88  
Word: laid  
Number of times used: 88  
Word: calls  
Number of times used: 88  
Word: breast  
Number of times used: 88  
Word: hearing  
Number of times used: 88  
Word: learn  
Number of times used: 87  
Word: kill'd  
Number of times used: 87  
Word: beard  
Number of times used: 87  
Word: golden  
Number of times used: 87  
Word: men's  
Number of times used: 86  
Word: forgot  
Number of times used: 86  
Word: patient  
Number of times used: 86  
Word: fled  
Number of times used: 86  
Word: awake  
Number of times used: 86  
Word: honesty  
Number of times used: 86  
Word: troilus  
Number of times used: 86  
Word: laugh  
Number of times used: 86  
Word: birth  
Number of times used: 85  
Word: coward  
Number of times used: 85

Word: wild  
Number of times used: 85  
Word: short  
Number of times used: 85  
Word: opinion  
Number of times used: 85  
Word: carry  
Number of times used: 85  
Word: small  
Number of times used: 85  
Word: stir  
Number of times used: 85  
Word: silence  
Number of times used: 84  
Word: whence  
Number of times used: 84  
Word: mock  
Number of times used: 84  
Word: broke  
Number of times used: 84  
Word: dull  
Number of times used: 83  
Word: amen  
Number of times used: 83  
Word: book  
Number of times used: 83  
Word: dinner  
Number of times used: 83  
Word: greater  
Number of times used: 83  
Word: emperor  
Number of times used: 83  
Word: year  
Number of times used: 82  
Word: glory  
Number of times used: 82  
Word: whether  
Number of times used: 82  
Word: lion  
Number of times used: 82  
Word: green  
Number of times used: 82  
Word: held  
Number of times used: 82  
Word: who's  
Number of times used: 82  
Word: thence  
Number of times used: 82  
Word: shape  
Number of times used: 82  
Word: feed  
Number of times used: 82  
Word: match  
Number of times used: 82  
Word: takes  
Number of times used: 81  
Word: safe

Number of times used: 81  
Word: woman's  
Number of times used: 81  
Word: enter  
Number of times used: 81  
Word: poison  
Number of times used: 81  
Word: quite  
Number of times used: 81  
Word: powers  
Number of times used: 81  
Word: quiet  
Number of times used: 80  
Word: pompey  
Number of times used: 80  
Word: purse  
Number of times used: 80  
Word: cardinal  
Number of times used: 80  
Word: friar  
Number of times used: 80  
Word: blame  
Number of times used: 80  
Word: nurse  
Number of times used: 80  
Word: prison  
Number of times used: 80  
Word: obey  
Number of times used: 79  
Word: lucius  
Number of times used: 79  
Word: taste  
Number of times used: 79  
Word: brook  
Number of times used: 79  
Word: brother's  
Number of times used: 79  
Word: fresh  
Number of times used: 79  
Word: wine  
Number of times used: 79  
Word: hamlet  
Number of times used: 79  
Word: suffer  
Number of times used: 79  
Word: rogue  
Number of times used: 79  
Word: whereof  
Number of times used: 79  
Word: troy  
Number of times used: 79  
Word: boys  
Number of times used: 79  
Word: princely  
Number of times used: 79  
Word: vain  
Number of times used: 79

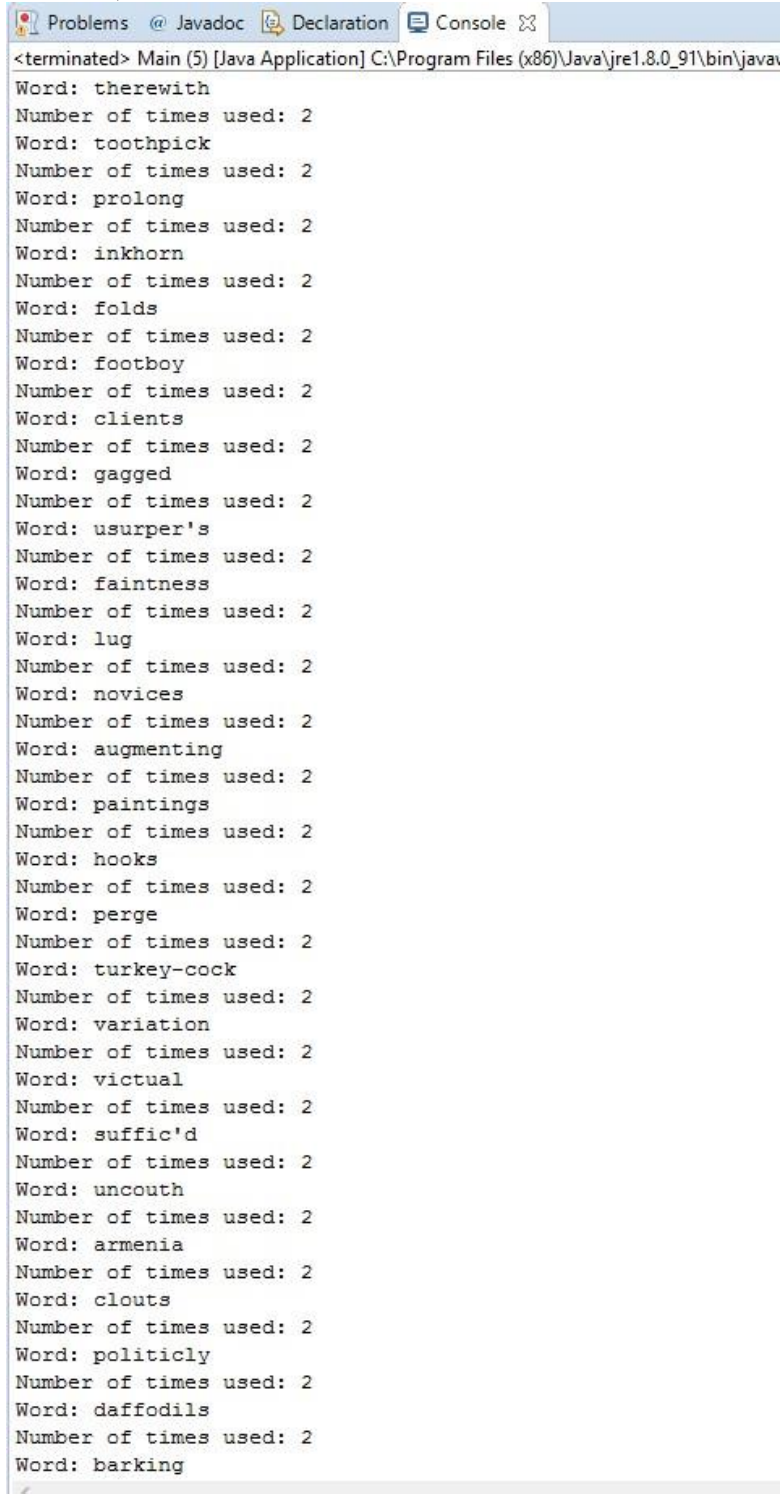
Word: goodly  
Number of times used: 79  
Word: desires  
Number of times used: 78  
Word: honours  
Number of times used: 78  
Word: greatness  
Number of times used: 78  
Word: ancient  
Number of times used: 78  
Word: smile  
Number of times used: 78  
Word: trouble  
Number of times used: 78  
Word: sudden  
Number of times used: 78  
Word: folly  
Number of times used: 78  
Word: timon  
Number of times used: 78  
Word: struck  
Number of times used: 77  
Word: knowledge  
Number of times used: 77  
Word: rise  
Number of times used: 77  
Word: double  
Number of times used: 77  
Word: alack  
Number of times used: 77  
Word: tent  
Number of times used: 77  
Word: tear  
Number of times used: 77  
Word: banish'd  
Number of times used: 77  
Word: steal  
Number of times used: 77  
Word: drawn  
Number of times used: 77  
Word: marcius  
Number of times used: 77  
Word: aught  
Number of times used: 77  
Word: jack  
Number of times used: 77  
Word: moor  
Number of times used: 77  
Word: wounds  
Number of times used: 77  
Word: burn  
Number of times used: 77  
Word: holds  
Number of times used: 76  
Word: paris  
Number of times used: 76  
Word: vow



Number of times used: 76  
Word: paper  
Number of times used: 76  
Word: manner  
Number of times used: 76  
Word: mother's  
Number of times used: 76  
Word: wast  
Number of times used: 76  
Word: motion  
Number of times used: 76  
Word: colour  
Number of times used: 76  
Word: wits  
Number of times used: 75  
Word: grows  
Number of times used: 75  
Word: endure  
Number of times used: 75  
Word: round  
Number of times used: 75  
Word: borne  
Number of times used: 75  
Word: until  
Number of times used: 75  
Word: jove  
Number of times used: 75  
Word: prisoner  
Number of times used: 75  
Word: ways  
Number of times used: 75  
Word: know'st  
Number of times used: 75  
Word: others  
Number of times used: 75  
Word: woo  
Number of times used: 74  
Word: tongues  
Number of times used: 74  
Word: bones  
Number of times used: 74  
Word: angelo  
Number of times used: 74  
Word: scarce  
Number of times used: 74  
Word: blind  
Number of times used: 74  
Word: although  
Number of times used: 74  
Word: brain  
Number of times used: 74  
Word: talbot  
Number of times used: 74

Lastly, the other goal was to print out all the words that had collisions, aka more frequently occurring than 1. There are far too many of them to display them all, but here are some instances

(Note: the total collisions is one less than the frequency, since the first instance of a word isn't a collision):



```
<terminated> Main (5) [Java Application] C:\Program Files (x86)\Java\jre1.8.0_91\bin\java
Word: therewith
Number of times used: 2
Word: toothpick
Number of times used: 2
Word: prolong
Number of times used: 2
Word: inkhorn
Number of times used: 2
Word: folds
Number of times used: 2
Word: footboy
Number of times used: 2
Word: clients
Number of times used: 2
Word: gagged
Number of times used: 2
Word: usurper's
Number of times used: 2
Word: faintness
Number of times used: 2
Word: lug
Number of times used: 2
Word: novices
Number of times used: 2
Word: augmenting
Number of times used: 2
Word: paintings
Number of times used: 2
Word: hooks
Number of times used: 2
Word: perge
Number of times used: 2
Word: turkey-cock
Number of times used: 2
Word: variation
Number of times used: 2
Word: victual
Number of times used: 2
Word: suffic'd
Number of times used: 2
Word: uncouth
Number of times used: 2
Word: armenia
Number of times used: 2
Word: clouts
Number of times used: 2
Word: politicly
Number of times used: 2
Word: daffodils
Number of times used: 2
Word: barking
```

Based off the accuracy of my results, I'm pretty confident in my project, although I can never be certain given the amount of formatting errors in the text file which can alter the frequency of many words and the actual words themselves.

