

1.)

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bummy@bummy-730QDA: ~/Source/Colle

File Edit View Search Terminal Help
-----
Key                                     Value
-----
FakeNews.csv                           people
NYC_Restaurants.csv                     vermin
SMS_Spam.txt                            mobile
Traffic_Violations.csv                  marked
WineReviews.csv                         valley
ConsumerComplaints.csv                  closed
Hotel_Reviews.csv                       united
UFOReports.txt                          lights
TimeUse.csv                             travel
Oscar2019Tweets.csv                    resize
MoviePlots.csv                          father
Resume.csv                              schema
IMDB.csv                                images
CarAds.csv                              diesel
-----
Key                                     Value
-----
FakeNews.csv                           clinton
NYC_Restaurants.csv                     initial
SMS_Spam.txt                            message
Traffic_Violations.csv                  article
WineReviews.csv                         flavors
ConsumerComplaints.csv                  account
Hotel_Reviews.csv                       kingdom
UFOReports.txt                          minutes
TimeUse.csv                             related
Oscar2019Tweets.csv                    profile
MoviePlots.csv                          however
Resume.csv                              padding
IMDB.csv                                english
CarAds.csv                              compact
-----
Key                                     Value
-----
FakeNews.csv                           american
NYC_Restaurants.csv                     critical
SMS_Spam.txt                            tomorrow
Traffic_Violations.csv                  district
WineReviews.csv                         cabernet
ConsumerComplaints.csv                  mortgage
Hotel_Reviews.csv                       location
UFOReports.txt                          fireball
TimeUse.csv                             services
Oscar2019Tweets.csv                    expanded
MoviePlots.csv                          american
Resume.csv                              itemprop
IMDB.csv                                thriller
CarAds.csv                              gasoline

*****
Total Runtime: 103.9 seconds
*****
bummy@bummy-730QDA:~/Source/College-Work/4401_OperatingSystems/HW/HW3$ java part2
```

2.)

```
bummy@bummy-730QDA:~/Source/College-Work/4401_OperatingSystems/HW/HW3$ java part2
```

Key	Value
TimeUse.csv	travel
SMS_Spam.txt	mobile
UFOReports.txt	lights
WineReviews.csv	valley
IMDB.csv	images
Resume.csv	schema
FakeNews.csv	people
MoviePlots.csv	father
ConsumerComplaints.csv	closed
NYC_Restaurants.csv	vermin
Hotel_Reviews.csv	united
CarAds.csv	diesel
Oscar2019Tweets.csv	resize
Traffic_Violations.csv	marked

Key	Value
TimeUse.csv	related
SMS_Spam.txt	message
UFOReports.txt	minutes
IMDB.csv	english
Resume.csv	padding
WineReviews.csv	flavors
FakeNews.csv	clinton
MoviePlots.csv	however
NYC_Restaurants.csv	initial
ConsumerComplaints.csv	account
Hotel_Reviews.csv	kingdom
CarAds.csv	compact
Oscar2019Tweets.csv	profile
Traffic_Violations.csv	article

Key	Value
TimeUse.csv	services
SMS_Spam.txt	tomorrow
UFOReports.txt	fireball
IMDB.csv	thriller
WineReviews.csv	cabernet
Resume.csv	itemprop
FakeNews.csv	american
MoviePlots.csv	american
NYC_Restaurants.csv	critical
ConsumerComplaints.csv	mortgage
Hotel_Reviews.csv	location
CarAds.csv	gasoline
Oscar2019Tweets.csv	expanded
Traffic_Violations.csv	district

```
*****
Total Runtime: 40.273 seconds
*****
```

- 3.) I made a thread for every individual text file and ran them concurrently. The threads for the files weren't reused when the word counter went onto the 7 and 8 character long words, and instead new threads were created. I chose this method because you mentioned it in class, and I thought it was be the easiest to implement.
- Other implementations that come to mind that might have faster run times is to reuse threads whenever a file is finished (either setting it to start on the next character length or setting it to assist another larger file), having multiple threads work on the same file at once (having two threads, one starting from the top and the other starting from the middle, for instance), or a combination of these two. Unfortunately due to my own sloth, I have not tried this, nor will I in the future.