

Lab 4 Assignment

Task 1

- I) `grep -n battery battery-life.txt` (displays the lines along with line numbers)
output:

74: I left wireless on for the first 3 days, and after reading through Ur and 25% of DaVinci Code , plus lots of general playing around with the device and checking out features, I got the low, battery warning about 55 hours after intially charging it to full .

75: This feature uses a lot of battery and the battery lasts for maximum 2, 3 days but it is worth it .

76: I live in the UK, my Kindle arrived last Thursday and it was up and running in minutes as the battery had some charge when it arrived .

78: The battery life is unbelievable too .

79: Also, I only carried my kindle on the plane to Japan, and I could read for over 15 hours and the battery wasn't even halfway over .

80: The books download quickly, the battery lasts a long time, it is simple to use, the bookmark feature is nice, and I love the cool pics on the screen when you turn the gadget off .

81: The battery life is great and I even like the screen savers .

82: I just found out how to save the battery and you can read for well over a week without a charge .

83: If the battery lasts a couple years, not being able to replace it myself will not be a factor either .

84: I've left the wireless on and really don't see tremendous battery usage yet .

85: At first I thought, wait a minute, no memory chip, no exchangeable battery, a few other diff .

86: It came with battery uncharged, but it charged up as advertised in less than 3 hours .

87: And the long battery life is amazing !

88: The battery life seems amazing .

89: While the Kindle 2 shows the title on the left as before and more readable, the battery life and network icons are in the place of the author's name .

90: By the way, Kindle battery lasts forever indeed !

Binary file battery-life.txt matches

(this is the partial ouput, rest of it looks the same)

- II) `grep -e good -e worst -e bad battery-life.txt`
output:

Battery life is very good, even with the wireless on constantly . ,
Battery life seems a bit longer but the K1 was good too .

- III) `grep "amazing .$" battery-life.txt` output:
And the long battery life is amazing !
The battery life seems amazing .

IV) `grep "[0-9]" battery-life.txt`
output:

After you have paged thru a 500, page book one, page, at, a, time to get from Chapter 2 to Chapter 15, see how excited you are about a low battery and all the time it took to get there !

NO USER REPLACEABLE BATTERY, , Unless you buy the extended warranty for \$65 . After 1 year you pay \$80 plus shipping to send the device to Amazon and have the Kindle REPLACED, not the battery changed out .

The fact that Kindle 2 has no SD card capability and the battery is not user, serviceable is not an issue with me .

Frankly, I never used either the card slot or changed the battery on my Kindle 1 but I liked that they were there and I miss them on the Kindle 2, even though, I have to admit, I don't actually need them .

As for the battery, Amazon's explanation was that it'd thicken the Kindle, so I'm fine with it b c the slenderness of the K2 is such a plus .

Short battery life , I charged this thing for a couple of hours, 24 hours ago , it's still running and just at 75% of full power .

Kindle is an out of the box reading, ready unit that immediately addressed me by my nickname, no log, in necessary, and could have begun downloading whatever I wanted over the 3G

Whispernet within seconds as the battery was charging,

very thin, light, weight, and attractive, looking with more data storage and faster battery charges with longer usage compared to Kindle 1,

What I'm ambivalent about , I don't find the battery life any better than the K1, I thought the K1 battery life was perfectly fine .

extended use of this feature will cut into battery life significantly, I've been getting 2 . A week ago, I ordered my Kindle 2 and when it was delivered, the battery was in critical stage and it would not power on .

K2 goes into sleep mode if you leave it be for a few minutes, but in this mode it still uses battery power if wireless is enabled .

I can do without the K2 several years from now for a week while the battery gets replaced . More likely, by the time the battery no longer holds a charge, there will be a K7 with a color screen and 200 times the memory that I'll want to upgrade to !

The 2 days battery life was with the wireless turned ON which is wholly unnecessary in the normal operation of the device .

, Battery life seems a bit longer but the K1 was good too .

The Sony takes 60 seconds to go back to the main menu and used an incredible amount of battery .

(partial output due to length)

`grep "[0-9]" hotel-service.txt`
output:

Great location, close to a tube station with a 24 hour Tesco metro nearby . b basis Hotel huge , 900 rooms Buffet breakfast good for a buffet This is a well run hotel with

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a great location for the metro Rooms a bit on the small side but I would stay again The location is also good because it is literally 150 footsteps from Gloucester Road Underground Station .

, checked us in at 11 am after a transatlantic flight, room larger than average, compared to our continental Europe travel, location, location, location .

Great location, grocery store open 24 hours within 5 mins walk and friendly international staff, will stay here again .

It is a relatively new hotel, clean and has a great location which is close to the underground with 3 connecting lines, it gives you an advantage to go anywhere without changing lots of trains .

Speaking of the tube, the location really is great 1 block away !

Although the location is a bit removed from the West End, it is only a block away from the Gloucester Road underground, with three train lines that will take you almost anywhere in the city in 15 minutes or less .

Yes I do stay here a lot and as such, guess that I get extra special treatment but it is in a great location with the tube within a 2 min walk surrounded by places to eat and drink and far enough out of central London to be quiet but you can still be in the west end in 15 minutes . Binary file hotel-service.txt matches

V) `grep -o '[:punct:]'` battery-life.txt
output:

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(partial output due to length)

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(partial output due to length)

VI) `grep -o -e good -e bad -e worst battery-life.txt | wc -l`
output: 2

VIII) `grep -o good battery-life.txt | wc -l`
output: 2
`grep -o bad battery-life.txt | wc -l`
output: 0
`grep -o worst battery-life.txt | wc -l`
output: 0

`grep -e Delhi -e London -e Gloucester hotel-service.txt`

output

irst and foremost, the good, yes it has good location, a block away from Gloucester Road Tube Station .

Location could not have been better with the Gloucester Road tube station just a few minutes' walk from the hotel .

Even better is the hotel's location , literally a two, minute walk around the corner and you're at the Gloucester Road Tube Station and a host of small shops, pubs and eateries .

If you want a reasonably priced place to stay in London in a convenient location, then this is a good choice !

In London its often hard to find good location and good customer service in the same place , The Holiday Inn Kensington Forum did that for me and I couldn't ask for more .

It's rated 4, stars, but I also stayed at an equivalently rated Marriott while in London, and a 3, star Holiday Inn Express in Scotland, and the service and rooms were much better at the other locations .

Excellent location next to Gloucester Road tube station that has 3 train lines making getting around London really easy .

LOCATION , this hotel is located around the block from the Gloucester tube station and a few ATM machines .

The location was only a five minute walk from the Gloucester Road Tube stop .

Great location, near Gloucester Road tube station, handy cluster of cafes, shops, couple of pubs, plus supermarket in the station complex .

Not too easy to find rooms for more than two people in London unless you compromise on a few things, such as cost, location etc .

The location to the Gloucester Road tube station was very handy .

The positives about the place are the views from the windows if you have an upper floor room, and the location next to Gloucester Road tube station and a small shopping area .

It isn't the most central location but I found it easy enough to get into London .

Its location is probably the first thing worth mentioning, being a 10 minutes walk from the natural history museum, a 15 minutes walk from beautiful Hyde Park and just behind the corner of the Gloucester Road underground station .

Also it is perfect for the Gloucester Road tube station with direct trains to Heathrow airport terminals, very good location turn right as you exit the station the hotels a 3 minute walk on your right hand side .

Location is very close to Gloucester Road Tube so easy to get into central london for the tourist sites .

It's a great location , literally a minute's walk to Gloucester Road tube station, 5 mins walk to the Victoria Albert Museum and the British Science Museum .

Great location for all London has too offer .

The hotel is in a very good location for touring London .

Clean rooms, great location, close to the Gloucester Tube entrance .

The one standout is location , , it's only about a block from the Gloucester Rd tube station, which is on the Picadilly line that connects to Heathrow, so being on the west side of London, it's a shorter ride to and from airport and a very short walk to your hotel with no changes, and then you are close to public transport for the rest of your stay .

The Holiday Inn Kensington Forum benefits from a fantastic location, right next to Gloucester Road Tube or to Paddington Station for the Heathrow Express .

The location is fantastic near Gloucester Station which was very handy for all our needs in transport !

The location is South West London and a healthy but doable walk from landmarks like the Museum of Natural History, Albert's Hall, Kensington Gardens, and Harrods .

LOCATIONA block from Gloucester Road Tube which is conveniently on the Piccadilly, District Circle lines .

This was our first trip to London and we found the location to be excellent .

Great location, 1 min from Gloucester Tube .

The Holiday Inn Kensington Forum has a fantastic location for a city break in London .

The location is great , very close to Gloucester Road Tube, with Waitrose supermarket, coffee shops and restaurants nearby .

Location of hotel is great, next to Gloucester Road tube, close to museums, short hike to Buckingham Palace etc .

Having never been to London, I found it easy to get around to places of interest from this location .

The hotel is in an excellent location only a short walk to Gloucester Rd .

The location of the hotel is excellent, in a very nice area right next to the Gloucester Road tube station and direct on the picadilly line from Kings cross .

Great location close to Gloucester Road tube stop .

Would definitely recommend this hotel if only for the fair price I got on priceline combined with the great, convenient location, which made it easy to get to all the touristy sites in London .

Convenient to Gloucester Road tube station, , location could not have been better .

Loved the location as it's only a 1, minute walk from the Gloucester Road tube station .

The hotel has an unbeatable location in a very nice part of South Kensington , only 1 block from the Gloucester Road station .

We've stayed in London a lot and booked this hotel for one night due to a number of factors , the location, the price the availability of a room to accomodate three adults .

The hotel itself is truly in a great location , on the same road as the major London museums it took a leisurely 5, 10 minutes to stroll to the wonderful Natural History Museum a further 5, 10 minutes up the road to Harrods .

I travelled during the off, season in January to London, this was my first stay at this location and I would definitely consider doing so again .

The location of the hotel is great because it's about a block from the Gloucester Road Tube Station which is on several Tube lines .

In short, the location of the hotel made travel around London and getting to train stations to go out of London incredibly easy .

Overall, we felt this hotel was in a convenient location and a good deal for a London hotel .

Great location , a couple of minutes walk from Gloucester Rd underground station, and shops, restaurants, internet cafe etc

The location is great however, only 5 mins walk from the Gloucester Road tube and 10 mins walk to the South Kensington museums, Albert Hall, etc .

The hotel is in an ok location , close the the Gloucester Rd tube station .

The location of the hotel was excellent, a 5 min stroll from Gloucester Road tube, next to tesco express and a large supermarket just around the corner .

On a positive note the location is great and the overworked staff did their best however if visiting London there are definitely better options such as the NH which is just around the corner .

Overall, we found the hotel only good for location and decent room if somewhat cold just like the weather was in London then .

The breakfasts were excellent and the location is great for viewing London by bus, on foot and by tube , which is just at the end of the road .

Very convenient location for Gloucester Road tube .

The location in South Kensington is excellent as the Gloucester Road tube station is just around the corner and is served by 3 main lines, , District, Circle and Piccadilly .

The location is in a good location near the tube and only a few minutes by cab to central London .

This hotel is in a very convenient location, just a block and a half from the Gloucester Road tube station .

Comfortable room with large bed but limited space as is often the case with London hotels, but I found the location excellent .

The location was ideal for getting around London .

The location is fab , near the Gloucester underground station and the Waitrose grocery store .

Location was great being only a few yards from the Gloucester Road tube on Piccadilly, Circle and District lines and was therefore an ideal base for our sight seeing visit .

Anyway it may not have the charm or history of other hotels in London, but for the price location we would visit again .

Best part of all is the location, loved the Gloucester Road tube station nearby and the South Kensington area in general, very safe to walk around in any time day or night .

Gloucester Road tube station is at the westernmost side of zone 1, making it a perfect location between the airport and central London .

The location of the hotel is superb , 2 minutes walk from Gloucester Road tube .

I would definately recommed this hotel to anyone as it is unbeatable for price and location in London .

For a similarly good location , you can stay at the London Hilton Metropole for the same price and receive much better service .

grep location hotel-service.txt

output:

Best location and unbeatable price !

This is an awesome location right near the Gloucester Road tube stop .

Definitely stay here if you are on a budget , and even if not, it's still nice and the location is really the best !

A true bargain in the London hotel market, and a very convenient location adjacent to the Gloucester road underground station .

Excellent location but a couple of problems .

The location is excellent being a few minutes walk from Gloucester Road tube station with its good connection to Heathrow airport and to central London .

Great choice in a great location .

The location could not be better , one block from the intersection of Cromwell and Gloucester Roads, with the Glouster Road tube stop .

I say fortunate because the location was perfect for my needs as a first, timer .

This is definitely a modern hotel, no English charm here, but the location and the price can't be beat .

The location could not be better and best of all it was so clean .

Everything worked well, was in good condition and the room was quiet in spite of the hotel's busy location .

X) grep -o -e "service" -e "services" hotel-service.txt | wc -l
output: 18

XI) grep -e "good" -e "bad" -e "better" -e "worst" hotel-service.txt | sort | uniq -c
output: 1 bad
17 better
70 good

Task 2

a) grep -o -e "good" -e "better" -e "bad" -e "worst" hotel-service.txt | sort | uniq -c
output:
1 bad
17 better
70 good


```
grep -o -e "good" -e "better" -e "bad" -e "worst" battery-life.txt | sort | uniq -c
```

output:

2 better

2 good

b) du | sort -n

output:

```
4924 ./mozilla/firefox/c1pwzopb.default/storage/default/about+home/idb
4924 ./mozilla/firefox/c1pwzopb.default/storage/default/about+newtab/idb
4936 ./mozilla/firefox/c1pwzopb.default/storage/default/about+home
4936 ./mozilla/firefox/c1pwzopb.default/storage/default/about+newtab
5064 ./cache/mozilla/firefox/c1pwzopb.default/safebrowsing
7536 ./config/google-chrome/Default/Extensions
8196 ./config/google-chrome/BrowserMetrics
8896 ./config/google-chrome/Safe Browsing
9788 ./config/google-chrome/Default/Service
Worker/CacheStorage/579544fd7d0441717f082c9eb123588966aa57ac/08a97b71-f2854cb1-
ac24-9005660905f9
10028 ./mozilla/firefox/c1pwzopb.default/storage/default
10736 ./cache/mozilla/firefox/c1pwzopb.default/startupCache
12756 ./mozilla/firefox/c1pwzopb.default/storage
13936 ./config/google-chrome/Default/Service
Worker/CacheStorage/579544fd7d0441717f082c9eb123588966aa57ac
15688 ./config/google-chrome/Default/Service Worker/CacheStorage
16164 ./config/google-chrome/Default/Service Worker
17952 ./config/google-chrome/pnacl/0.57.44.2492/_platform_specific/x86_64
17956 ./config/google-chrome/pnacl/0.57.44.2492/_platform_specific
17976 ./config/google-chrome/pnacl/0.57.44.2492
17980 ./config/google-chrome/pnacl
18444 ./config/google-chrome/PepperFlash/31.0.0.108
18452 ./config/google-chrome/PepperFlash
26632 ./config/google-chrome/Default
30568 ./mozilla/firefox/c1pwzopb.default
30592 ./mozilla/firefox
30604 ./mozilla
40732 ./cache/mozilla/firefox/c1pwzopb.default/cache2/entries
40808 ./cache/mozilla/firefox/c1pwzopb.default/cache2
57440 ./cache/mozilla/firefox/c1pwzopb.default
57444 ./cache/mozilla/firefox
57448 ./cache/mozilla
89972 ./config/google-chrome
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93584 ./config
107560      ./cache/google-chrome/Default/Cache
108168      ./cache/google-chrome/Default
108172      ./cache/google-chrome
169120      ./cache 299088
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(partial output due to length)

Task 3

GREP: Globally Search for Regular Expression

Grep command is used extensively for searching specific patterns, values or information in single or multiple files. It is very efficient in searching and has options for multiple kind of outputs.

It is mostly used to list files containing a certain pattern or a part of their text matching with a regular expression.

Grep makes searching very easy and very versatile due to its multi- functionality like searching for non-matching strings, searching for words only in a particular line or just listing files containing a pattern from the specified directory.

However, it has a slight disadvantage that some users may find the syntax too complicated to remember and it needs constant reference to resources to use it efficiently.

PIPE

Grep command is mostly used in combination with the pipe command, which is used to direct the output from one command as input to another command.

Pipe is used extensively because of its ability to establish a temporary connection between various commands and give results in a single line.

The major advantage of the pipe command is that it prevents making multiple temporary files that contain output from one command and using those files as inputs to another command.

Also, the flow of data is continuous, which makes application of multiple commands easy.

For example, if sort has to be applied to a particular portion of a file, the output from grep can be used as input to sort command directly, without saving that text in a temporary file.

Disadvantage of pipe is that one may not be able to predict the output of previous command directly in order to transfer data as input to next command.

Also, pipe has a limited buffer.