

## Part 1.

### Top 100 Words:

```
1. Word: said, Count: 16958954
2. Word: I, Count: 9961168
3. Word: , Count: 6982257
4. Word: would, Count: 5727877
5. Word: one, Count: 5015462
6. Word: also, Count: 4477917
7. Word: people, Count: 4015800
8. Word: year, Count: 3908563
9. Word: He, Count: 3772036
10. Word: Mr, Count: 3729679
11. Word: It, Count: 3722954
12. Word: In, Count: 3718041
13. Word: two, Count: 3642120
14. Word: first, Count: 3590245
15. Word: years, Count: 3575937
16. Word: last, Count: 3571939
17. Word: time, Count: 3500072
18. Word: new, Count: 3462921
19. Word: A, Count: 3369396
20. Word: could, Count: 3335796
21. Word: US, Count: 3242110
22. Word: like, Count: 2980097
23. Word: him, Count: 2745707
24. Word: We, Count: 2742413
25. Word: says, Count: 2387393
26. Word: get, Count: 2286265
27. Word: million, Count: 2228848
28. Word: back, Count: 2216942
29. Word: government, Count: 2216286
30. Word: made, Count: 2112044
31. Word: told, Count: 2088780
32. Word: three, Count: 2076528
33. Word: make, Count: 2062872
34. Word: many, Count: 2033137
35. Word: percent, Count: 2016333
36. Word: This, Count: 2015765
37. Word: New, Count: 1990427
38. Word: way, Count: 1896643
39. Word: say, Count: 1845459
40. Word: even, Count: 1825259
41. Word: much, Count: 1818380
42. Word: since, Count: 1797599
43. Word: And, Count: 1794800
44. Word: well, Count: 1783449
45. Word: still, Count: 1782164
46. Word: Its, Count: 1766166
47. Word: may, Count: 1765668
48. Word: per, Count: 1763626
49. Word: week, Count: 1760487
50. Word: work, Count: 1725326
51. Word: take, Count: 1717389
```

### Top 100 Words with more than 6 characters:

```
1. Word: million, Count: 2228848
2. Word: government, Count: 2216286
3. Word: percent, Count: 2016333
4. Word: including, Count: 1587810
5. Word: company, Count: 1441241
6. Word: another, Count: 1304675
7. Word: country, Count: 1247074
8. Word: President, Count: 1195606
9. Word: business, Count: 1134627
10. Word: American, Count: 1125997
11. Word: officials, Count: 1090915
12. Word: support, Count: 1050791
13. Word: billion, Count: 1041505
14. Word: European, Count: 1017653
15. Word: children, Count: 1010708
16. Word: according, Count: 1009939
17. Word: president, Count: 990651
18. Word: yearold, Count: 976865
19. Word: political, Count: 975737
20. Word: Tuesday, Count: 968395
21. Word: without, Count: 962312
22. Word: whether, Count: 945231
23. Word: already, Count: 936733
24. Word: Wednesday, Count: 919779
25. Word: financial, Count: 916291
26. Word: reported, Count: 912274
27. Word: expected, Count: 912176
28. Word: Thursday, Count: 909748
29. Word: something, Count: 871249
30. Word: military, Count: 848191
31. Word: information, Count: 845618
32. Word: economic, Count: 832171
33. Word: companies, Count: 828339
34. Word: British, Count: 812232
35. Word: statement, Count: 802312
36. Word: security, Count: 800012
37. Word: members, Count: 796375
38. Word: economy, Count: 794501
39. Word: campaign, Count: 781054
40. Word: several, Count: 778289
41. Word: Important, Count: 767666
42. Word: working, Count: 737672
43. Word: countries, Count: 727760
44. Word: players, Count: 724315
45. Word: decision, Count: 723288
46. Word: different, Count: 714556
47. Word: National, Count: 707963
```

Part 2

1. Section A:

Day in a Week	first(endpoint)	max(count)
Thursday	/images/NASA-logosmall.gif	46920
Wednesday	/images/NASA-logosmall.gif	37598
Tuesday	/images/NASA-logosmall.gif	33685
Monday	/images/NASA-logosmall.gif	30380
Friday	/images/NASA-logosmall.gif	29139
Saturday	/images/NASA-logosmall.gif	16168
Sunday	/images/KSC-logosmall.gif	15218

Year	count
1995	20899

2. Section B:

Start  
Getting Data and appending=0  
Getting Data and appending=1  
Getting Data and appending=2  
Getting Data and appending=3  
Getting Data and appending=4  
Getting Data and appending=5  
Getting Data and appending=6  
Getting Data and appending=7  
Getting Data and appending=8  
Getting Data and appending=9  
Getting Data and appending=10

host	method	endpoint	protocol	status	content_size	time
10.82.240.107	GET	/Archives/edgar/d...	HTTP/1.0	304	1638	2118-12-26 12:00:00
169.174.119.238	DELETE	/Archives/edgar/d...	HTTP/1.0	303	40118	2118-12-26 12:00:00
116.82.220.168	POST	/Archives/edgar/d...	HTTP/1.0	403	5856	2118-12-26 12:00:00
99.149.129.109	POST	/Archives/edgar/d...	HTTP/1.0	500	25206	2118-12-26 12:00:00
167.134.232.8	PUT	/Archives/edgar/d...	HTTP/1.0	200	29727	2118-12-26 12:00:00
128.171.81.194	GET	/Archives/edgar/d...	HTTP/1.0	304	3695	2118-12-26 12:00:00
74.59.229.245	GET	/Archives/edgar/d...	HTTP/1.0	200	37021	2118-12-26 12:00:00
198.123.235.207	DELETE	/Archives/edgar/d...	HTTP/1.0	403	46602	2118-12-26 12:00:00
77.26.34.100	PUT	/Archives/edgar/d...	HTTP/1.0	502	50169	2118-12-26 12:00:00
83.211.223.129	POST	/Archives/edgar/d...	HTTP/1.0	403	39593	2118-12-26 12:00:00

only showing top 10 rows

23/06/06 14:46:16 WARN TaskSetManager: Stage 4 contains a task of very large size (5318 KiB). The maximum recommended task size is 1000 KiB.  
23/06/06 14:46:19 WARN MemoryManager: Total allocation exceeds 95.00% (906,992,014 bytes) of heap memory  
Scaling row group sizes to 96.54% for 7 writers  
23/06/06 14:46:19 WARN MemoryManager: Total allocation exceeds 95.00% (906,992,014 bytes) of heap memory  
Scaling row group sizes to 84.47% for 8 writers  
23/06/06 14:46:22 WARN MemoryManager: Total allocation exceeds 95.00% (906,992,014 bytes) of heap memory  
Scaling row group sizes to 96.54% for 7 writers  
Saving File

3. Section C:

	requesting_host	cluster
0	in24.inetnebr.com	0
1	uplherc.upl.com	0
2	uplherc.upl.com	0
3	uplherc.upl.com	0
4	uplherc.upl.com	0
...	...	...
1555715	gatekeeper.uccu.com	2
1555716	gatekeeper.uccu.com	2
1555717	cys-cap-9.wyoming.com	2
1555718	www-c8.proxy.aol.com	2
1555719	cindy.yamato.ibm.co.jp	2

[1555720 rows x 2 columns]

Cluster statistics:  
cluster  
0 526820  
2 520682  
1 508218  
Name: count, dtype: int64