Wiki Search Engine - Report

a. Student IDs and emails

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b. A link to a Github repo with the code

https://github.com/lironzvi/WikiSearchEngine/actions/new

c. A link to a Google Storage Bucket, where all indexing data you calculated resides and is publicly accessible. Instructions for making your bucket public are here.

https://console.cloud.google.com/storage/browser/all data bucket new

d. List all index files with human-readable sizes, pasted in an appendix at the end of your report. This does not count towards the page limit. You can use the command `gsutil du -ch gs://BUCKET_NAME` to generate this listing or `du -ch LOCAL_DIR` if you store index data locally.

In the end of the report

e. A description of key experiments you ran, how you evaluated them, and the key findings/takeaways.

At the start we began with the naïve solution to the search function.

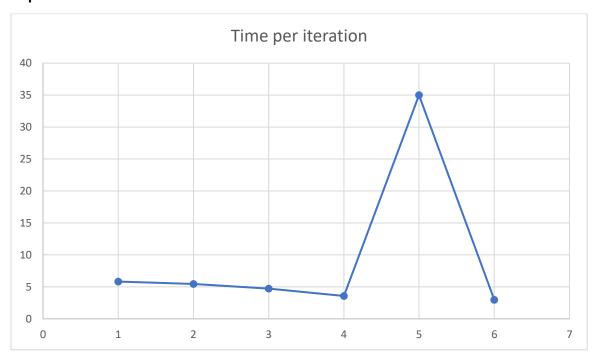
We implanted the search function using the naïve implementation of cosine similarity, which took a lot of time to run and didn't stand in our timeout of 35 seconds.

Later, we understood that this solution wasn't good enough, so we followed the guidelines in lecture 3.

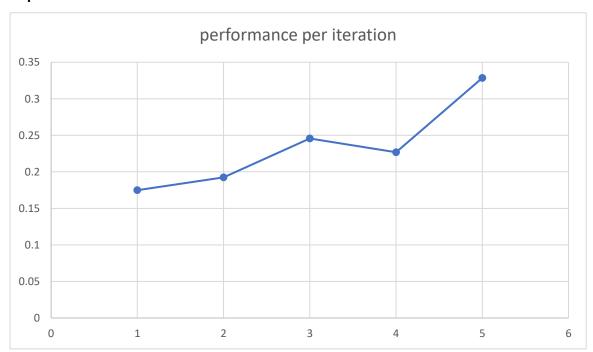
When coding the search engine logic we starts as well with the basics, which did not qualified with our instructions, so we started to efficient things.

We also decided to go with another set of stemmed indexes, and BM25 ranking scores. As we did that our score almost doubled and the time was less than 35 sec.

f. A graph showing the engine performance for each major version of your implementation.



g. A graph showing the engine's average retrieval time for each major version of your implementation.



h. Qualitative evaluation of the top 10 results for one query where your engine performed really well and one query where your engine did not perform well.
Describe what worked well and what didn't work so well. What is the dominant factor behind the poor result? What can be done about it?

How to lose weight	1.044868231	1
Rick and Morty	0.529898405	0.995
'Ritalin'	0.108310223	0.917
'Natural Language processing'	5.245989323	0.818
'LinkedIn'	0.127832174	0.81
'Information retrieval'	1.89023304	0.801
'Air Jordan'	3.731889486	0.583
'Elon musk'	0.135402918	0.583
'Dolly the sheep'	0.371040344	0.528
'how to make money fast?	3.24847126	0.451
'Java'	0.885323286	0.367
'World Cup 2022'	7.771495581	0.351
'Apple computer'	2.137863159	0.288
'World cup'	7.788771629	0.266
Netflix	0.394448757	0.186
'Marijuana'	0.127192497	0.175
'Winter'	1.986928225	0.167
'Most expensive city in the world'	9.296126842	0.131
'How do kids come to world?	6.627105951	0.127
How do you breed flowers?	0.767917633	0.043
'India'	4.238260984	0.036

We noticed a pattern in which each query with a collection of unique words, gave most times better results than the queries with more common words such as, "India", "world", "kids" etc. We believe that our engine's default weights effected the results.

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          gs://all_data_bucket_new/body_index_stemming/8_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_017.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_018.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_019.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_020.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_021.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_022.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_023.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_024.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_025.bin
1.91 MiB
          gs://all data bucket new/body index stemming/8 026.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_027.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_028.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/8_029.bin
          gs://all_data_bucket_new/body_index_stemming/8_030.bin
1.91 MiB
1.46 MiB
          gs://all_data_bucket_new/body_index_stemming/8_031.bin
```

```
88.57 KiB
          gs://all_data_bucket_new/body_index_stemming/8_posting_locs.pickle
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_017.bin
1.91 MiB
          gs://all data bucket new/body index stemming/90 018.bin
1.91 MiB
          gs://all data bucket new/body index stemming/90 019.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_020.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_021.bin
          gs://all_data_bucket_new/body_index_stemming/90_022.bin
1.91 MiB
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/90_023.bin
```

```
574.86 KiB gs://all_data_bucket_new/body_index_stemming/90_024.bin
85.5 KiB
         gs://all_data_bucket_new/body_index_stemming/90_posting_locs.pickle
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/91_016.bin
1.91 MiB
          gs://all data bucket new/body index stemming/91 017.bin
1.91 MiB
          gs://all data bucket new/body index stemming/91 018.bin
1.56 MiB
          gs://all_data_bucket_new/body_index_stemming/91_019.bin
86.33 KiB gs://all_data_bucket_new/body_index_stemming/91_posting_locs.pickle
          gs://all_data_bucket_new/body_index_stemming/92_000.bin
1.91 MiB
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_001.bin
```

```
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_017.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_018.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/92_019.bin
1.5 MiB
         gs://all data bucket new/body index stemming/92 020.bin
89.01 KiB gs://all data bucket new/body index stemming/92 posting locs.pickle
1.91 MiB
          gs://all data bucket new/body index stemming/93 000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_002.bin
          gs://all_data_bucket_new/body_index_stemming/93_003.bin
1.91 MiB
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_004.bin
```

```
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_017.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_018.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_019.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_020.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_021.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_022.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_023.bin
1.91 MiB
          gs://all data bucket new/body index stemming/93 024.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_025.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_026.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/93_027.bin
          gs://all_data_bucket_new/body_index_stemming/93_028.bin
1.91 MiB
1.08 MiB
          gs://all_data_bucket_new/body_index_stemming/93_029.bin
```

```
89 KiB
         gs://all_data_bucket_new/body_index_stemming/93_posting_locs.pickle
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_015.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_017.bin
1.91 MiB
          gs://all data bucket new/body index stemming/94 018.bin
1.91 MiB
          gs://all data bucket new/body index stemming/94 019.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_020.bin
          gs://all_data_bucket_new/body_index_stemming/94_021.bin
1.91 MiB
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_022.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_023.bin
```

```
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/94_024.bin
312.87 KiB gs://all_data_bucket_new/body_index_stemming/94_025.bin
88.18 KiB gs://all_data_bucket_new/body_index_stemming/94_posting_locs.pickle
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_010.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_011.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_012.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_013.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_014.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_015.bin
1.91 MiB
          gs://all data bucket new/body index stemming/95 016.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_017.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_018.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_019.bin
          gs://all_data_bucket_new/body_index_stemming/95_020.bin
1.91 MiB
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/95_021.bin
```

```
1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_022.bin
```

- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_023.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_024.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_025.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_026.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_027.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/95_028.bin
- 201.09 KiB gs://all_data_bucket_new/body_index_stemming/95_029.bin
- 87.54 KiB gs://all_data_bucket_new/body_index_stemming/95_posting_locs.pickle
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_000.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_001.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_002.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_003.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_004.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_005.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_006.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_007.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_008.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_009.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_010.bin
- 1.91 MiB gs://all data bucket new/body index stemming/96 011.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_012.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_013.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_014.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_015.bin

```
1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_016.bin
```

- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_017.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_018.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_019.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_020.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_021.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/96_022.bin
- 7.82 KiB gs://all_data_bucket_new/body_index_stemming/96_023.bin
- 88.09 KiB gs://all_data_bucket_new/body_index_stemming/96_posting_locs.pickle
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_000.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_001.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_002.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_003.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_004.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_005.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_006.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_007.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_008.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_009.bin
- 1.91 MiB gs://all data bucket new/body index stemming/97 010.bin
- 1.91 MiB gs://all data bucket new/body index stemming/97 011.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_012.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_013.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_014.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_015.bin

```
1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_016.bin
```

- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_017.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_018.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/97_019.bin
- 1.57 MiB gs://all_data_bucket_new/body_index_stemming/97_020.bin
- 87.8 KiB gs://all_data_bucket_new/body_index_stemming/97_posting_locs.pickle
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_000.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_001.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_002.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_003.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_004.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_005.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_006.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_007.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_008.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_009.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_010.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_011.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_012.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_013.bin
- 1.91 MiB gs://all data bucket new/body index stemming/98 014.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_015.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_016.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_017.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/98_018.bin

```
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/98_019.bin
1.18 MiB
          gs://all_data_bucket_new/body_index_stemming/98_020.bin
85.71 KiB gs://all_data_bucket_new/body_index_stemming/98_posting_locs.pickle
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_000.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_001.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_002.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_003.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_004.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_005.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_006.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_007.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_008.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_009.bin
1.91 MiB
          gs://all_data_bucket_new/body_index_stemming/99_010.bin
```

gs://all_data_bucket_new/body_index_stemming/99_011.bin

gs://all_data_bucket_new/body_index_stemming/99_012.bin

gs://all_data_bucket_new/body_index_stemming/99_013.bin

gs://all_data_bucket_new/body_index_stemming/99_014.bin

gs://all_data_bucket_new/body_index_stemming/99_015.bin

gs://all data bucket new/body index stemming/99 016.bin

gs://all data bucket new/body index stemming/99 017.bin

gs://all_data_bucket_new/body_index_stemming/99_018.bin

gs://all_data_bucket_new/body_index_stemming/99_019.bin

gs://all_data_bucket_new/body_index_stemming/99_020.bin

gs://all_data_bucket_new/body_index_stemming/99_021.bin

1.91 MiB

```
1.91 MiB gs://all_data_bucket_new/body_index_stemming/99_022.bin
```

- 1.74 MiB gs://all_data_bucket_new/body_index_stemming/99_023.bin
- 84.98 KiB gs://all_data_bucket_new/body_index_stemming/99_posting_locs.pickle
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_000.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_001.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_002.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_003.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_004.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_005.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_006.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_007.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_008.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_009.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_010.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_011.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_012.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_013.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_014.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_015.bin
- 1.91 MiB gs://all data bucket new/body index stemming/9 016.bin
- 1.91 MiB gs://all data bucket new/body index stemming/9 017.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_018.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_019.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_020.bin
- 1.91 MiB gs://all_data_bucket_new/body_index_stemming/9_021.bin

```
1.21 MiB
          gs://all_data_bucket_new/body_index_stemming/9_022.bin
86.21 KiB gs://all_data_bucket_new/body_index_stemming/9_posting_locs.pickle
65.52 MiB gs://all_data_bucket_new/body_index_stemming/stemming_body_index_new.pkl
5.51 GiB gs://all_data_bucket_new/body_index_stemming/
0 B
        gs://all_data_bucket_new/title_index/
643.78 KiB gs://all_data_bucket_new/title_index/0_000.bin
4.71 KiB
         gs://all_data_bucket_new/title_index/0_posting_locs.pickle
644.51 KiB gs://all_data_bucket_new/title_index/100_000.bin
4.74 KiB
         gs://all data bucket new/title index/100 posting locs.pickle
419 KiB
          gs://all_data_bucket_new/title_index/101_000.bin
4.76 KiB
         gs://all_data_bucket_new/title_index/101_posting_locs.pickle
351.38 KiB gs://all_data_bucket_new/title_index/102_000.bin
4.55 KiB
         gs://all_data_bucket_new/title_index/102_posting_locs.pickle
496.5 KiB gs://all_data_bucket_new/title_index/103_000.bin
4.38 KiB gs://all_data_bucket_new/title_index/103_posting_locs.pickle
1.26 MiB gs://all_data_bucket_new/title_index/104_000.bin
4.44 KiB gs://all_data_bucket_new/title_index/104_posting_locs.pickle
850.62 KiB gs://all_data_bucket_new/title_index/105_000.bin
4.72 KiB
          gs://all data bucket new/title index/105 posting locs.pickle
323.33 KiB gs://all data bucket new/title index/106 000.bin
4.54 KiB
        gs://all data bucket new/title index/106 posting locs.pickle
873.15 KiB gs://all_data_bucket_new/title_index/107_000.bin
         gs://all_data_bucket_new/title_index/107_posting_locs.pickle
4.77 KiB
319.49 KiB gs://all_data_bucket_new/title_index/108_000.bin
3.98 KiB gs://all_data_bucket_new/title_index/108_posting_locs.pickle
```

```
378.53 KiB gs://all_data_bucket_new/title_index/109_000.bin
4.48 KiB gs://all data bucket new/title index/109 posting locs.pickle
622.27 KiB gs://all_data_bucket_new/title_index/10_000.bin
         gs://all data bucket new/title index/10 posting locs.pickle
807.68 KiB gs://all_data_bucket_new/title_index/110_000.bin
         gs://all_data_bucket_new/title_index/110_posting_locs.pickle
473.2 KiB gs://all_data_bucket_new/title_index/111_000.bin
         gs://all_data_bucket_new/title_index/111_posting_locs.pickle
4.74 KiB
704.33 KiB gs://all data bucket new/title index/112 000.bin
4.76 KiB gs://all_data_bucket_new/title_index/112_posting_locs.pickle
426.12 KiB gs://all data bucket new/title index/113 000.bin
        gs://all_data_bucket_new/title_index/113_posting_locs.pickle
317.61 KiB gs://all_data_bucket_new/title_index/114_000.bin
         gs://all_data_bucket_new/title_index/114_posting_locs.pickle
3.86 KiB
333.2 KiB gs://all_data_bucket_new/title_index/115_000.bin
         gs://all_data_bucket_new/title_index/115_posting_locs.pickle
4.3 KiB
429.33 KiB gs://all_data_bucket_new/title_index/116_000.bin
4.81 KiB gs://all_data_bucket_new/title_index/116_posting_locs.pickle
335.84 KiB gs://all data bucket new/title index/117 000.bin
4.63 KiB gs://all data bucket new/title index/117 posting locs.pickle
700.24 KiB gs://all data bucket new/title index/118 000.bin
4.89 KiB gs://all data bucket new/title index/118 posting locs.pickle
405.61 KiB gs://all_data_bucket_new/title_index/119_000.bin
4.49 KiB gs://all_data_bucket_new/title_index/119_posting_locs.pickle
874.66 KiB gs://all_data_bucket_new/title_index/11_000.bin
```

```
5.28 KiB
          gs://all_data_bucket_new/title_index/11_posting_locs.pickle
376.01 KiB gs://all data bucket new/title index/120 000.bin
         gs://all_data_bucket_new/title_index/120_posting_locs.pickle
409.25 KiB gs://all data bucket new/title index/121 000.bin
4.25 KiB
         gs://all_data_bucket_new/title_index/121_posting_locs.pickle
492.93 KiB gs://all_data_bucket_new/title_index/122_000.bin
          gs://all_data_bucket_new/title_index/122_posting_locs.pickle
397.69 KiB gs://all_data_bucket_new/title_index/123_000.bin
3.94 KiB
         gs://all data bucket new/title index/123 posting locs.pickle
590.97 KiB gs://all_data_bucket_new/title_index/12_000.bin
          gs://all data bucket new/title index/12 posting locs.pickle
4.83 KiB
449.79 KiB gs://all_data_bucket_new/title_index/13_000.bin
4.78 KiB gs://all_data_bucket_new/title_index/13_posting_locs.pickle
443.7 KiB gs://all_data_bucket_new/title_index/14_000.bin
         gs://all_data_bucket_new/title_index/14_posting_locs.pickle
4.77 KiB
324.48 KiB gs://all_data_bucket_new/title_index/15_000.bin
4.22 KiB gs://all_data_bucket_new/title_index/15_posting_locs.pickle
610.27 KiB gs://all_data_bucket_new/title_index/16_000.bin
4.63 KiB
          gs://all data bucket new/title index/16 posting locs.pickle
652.39 KiB gs://all data bucket new/title index/17 000.bin
         gs://all data bucket new/title index/17 posting locs.pickle
4.45 KiB
          gs://all data bucket new/title index/18 000.bin
440 KiB
4.34 KiB
          gs://all data bucket new/title index/18 posting locs.pickle
502.93 KiB gs://all_data_bucket_new/title_index/19_000.bin
          gs://all_data_bucket_new/title_index/19_posting_locs.pickle
4.65 KiB
```

```
496.49 KiB gs://all_data_bucket_new/title_index/1_000.bin
4.86 KiB gs://all data bucket new/title index/1 posting locs.pickle
691.14 KiB gs://all_data_bucket_new/title_index/20_000.bin
         gs://all data bucket new/title index/20 posting locs.pickle
499.93 KiB gs://all_data_bucket_new/title_index/21_000.bin
5.08 KiB gs://all_data_bucket_new/title_index/21_posting_locs.pickle
488.2 KiB gs://all_data_bucket_new/title_index/22_000.bin
4.46 KiB
         gs://all_data_bucket_new/title_index/22_posting_locs.pickle
482.95 KiB gs://all data bucket new/title index/23 000.bin
4.48 KiB gs://all_data_bucket_new/title_index/23_posting_locs.pickle
379.34 KiB gs://all_data_bucket_new/title_index/24_000.bin
4.35 KiB gs://all_data_bucket_new/title_index/24_posting_locs.pickle
579.03 KiB gs://all_data_bucket_new/title_index/25_000.bin
4.65 KiB gs://all_data_bucket_new/title_index/25_posting_locs.pickle
566.16 KiB gs://all_data_bucket_new/title_index/26_000.bin
5.14 KiB gs://all_data_bucket_new/title_index/26_posting_locs.pickle
410.37 KiB gs://all_data_bucket_new/title_index/27_000.bin
4.9 KiB
         gs://all_data_bucket_new/title_index/27_posting_locs.pickle
607.36 KiB gs://all data bucket new/title index/28 000.bin
4.63 KiB gs://all data bucket new/title index/28 posting locs.pickle
508.76 KiB gs://all data bucket new/title index/29 000.bin
4.99 KiB gs://all data bucket new/title index/29 posting locs.pickle
424.74 KiB gs://all_data_bucket_new/title_index/2_000.bin
4.39 KiB gs://all_data_bucket_new/title_index/2_posting_locs.pickle
716.68 KiB gs://all_data_bucket_new/title_index/30_000.bin
```

```
4.47 KiB
         gs://all_data_bucket_new/title_index/30_posting_locs.pickle
360.68 KiB gs://all data bucket new/title index/31 000.bin
         gs://all_data_bucket_new/title_index/31_posting_locs.pickle
448.73 KiB gs://all data bucket new/title index/32 000.bin
4.52 KiB gs://all_data_bucket_new/title_index/32_posting_locs.pickle
486.47 KiB gs://all_data_bucket_new/title_index/33_000.bin
4.01 KiB gs://all_data_bucket_new/title_index/33_posting_locs.pickle
586.15 KiB gs://all_data_bucket_new/title_index/34_000.bin
4.49 KiB
        gs://all data bucket new/title index/34 posting locs.pickle
572.87 KiB gs://all_data_bucket_new/title_index/35_000.bin
4.67 KiB gs://all data bucket new/title index/35 posting locs.pickle
405.07 KiB gs://all_data_bucket_new/title_index/36_000.bin
4.65 KiB gs://all_data_bucket_new/title_index/36_posting_locs.pickle
571.72 KiB gs://all_data_bucket_new/title_index/37_000.bin
        gs://all_data_bucket_new/title_index/37_posting_locs.pickle
4.93 KiB
703.73 KiB gs://all_data_bucket_new/title_index/38_000.bin
4.86 KiB gs://all_data_bucket_new/title_index/38_posting_locs.pickle
573.73 KiB gs://all_data_bucket_new/title_index/39_000.bin
4.15 KiB
         gs://all data bucket new/title index/39 posting locs.pickle
367.87 KiB gs://all data bucket new/title index/3 000.bin
4.21 KiB gs://all data bucket new/title index/3 posting locs.pickle
672.68 KiB gs://all data bucket new/title index/40 000.bin
4.64 KiB
         gs://all_data_bucket_new/title_index/40_posting_locs.pickle
545.69 KiB gs://all_data_bucket_new/title_index/41_000.bin
4.51 KiB gs://all_data_bucket_new/title_index/41_posting_locs.pickle
```

```
795.36 KiB gs://all_data_bucket_new/title_index/42_000.bin
```

- 4.5 KiB gs://all_data_bucket_new/title_index/42_posting_locs.pickle
- 407.79 KiB gs://all_data_bucket_new/title_index/43_000.bin
- 4.95 KiB gs://all data bucket new/title index/43 posting locs.pickle
- 577.43 KiB gs://all_data_bucket_new/title_index/44_000.bin
- 4.25 KiB gs://all_data_bucket_new/title_index/44_posting_locs.pickle
- 445.59 KiB gs://all_data_bucket_new/title_index/45_000.bin
- 4.64 KiB gs://all_data_bucket_new/title_index/45_posting_locs.pickle
- 365.77 KiB gs://all_data_bucket_new/title_index/46_000.bin
- 4.31 KiB gs://all_data_bucket_new/title_index/46_posting_locs.pickle
- 396.5 KiB gs://all data bucket new/title index/47 000.bin
- 3.85 KiB gs://all_data_bucket_new/title_index/47_posting_locs.pickle
- 585.8 KiB gs://all_data_bucket_new/title_index/48_000.bin
- 4.52 KiB gs://all_data_bucket_new/title_index/48_posting_locs.pickle
- 408.54 KiB gs://all_data_bucket_new/title_index/49_000.bin
- 4.71 KiB gs://all_data_bucket_new/title_index/49_posting_locs.pickle
- 603.03 KiB gs://all_data_bucket_new/title_index/4_000.bin
- 5.41 KiB gs://all_data_bucket_new/title_index/4_posting_locs.pickle
- 516.02 KiB gs://all data bucket new/title index/50 000.bin
- 4.71 KiB gs://all_data_bucket_new/title_index/50_posting_locs.pickle
- 475.45 KiB gs://all data bucket new/title index/51 000.bin
- 4.33 KiB gs://all_data_bucket_new/title_index/51_posting_locs.pickle
- 655 KiB gs://all_data_bucket_new/title_index/52_000.bin
- 4.44 KiB gs://all_data_bucket_new/title_index/52_posting_locs.pickle
- 583.42 KiB gs://all_data_bucket_new/title_index/53_000.bin

```
4.63 KiB
          gs://all_data_bucket_new/title_index/53_posting_locs.pickle
736.21 KiB gs://all data bucket new/title index/54 000.bin
          gs://all_data_bucket_new/title_index/54_posting_locs.pickle
671.56 KiB gs://all data bucket new/title index/55 000.bin
          gs://all_data_bucket_new/title_index/55_posting_locs.pickle
832.72 KiB gs://all_data_bucket_new/title_index/56_000.bin
          gs://all_data_bucket_new/title_index/56_posting_locs.pickle
661.01 KiB gs://all_data_bucket_new/title_index/57_000.bin
4.51 KiB
          gs://all data bucket new/title index/57 posting locs.pickle
489.9 KiB gs://all_data_bucket_new/title_index/58_000.bin
4.78 KiB
         gs://all data bucket new/title index/58 posting locs.pickle
538.4 KiB gs://all_data_bucket_new/title_index/59_000.bin
4.54 KiB gs://all_data_bucket_new/title_index/59_posting_locs.pickle
471.6 KiB gs://all_data_bucket_new/title_index/5_000.bin
```

gs://all_data_bucket_new/title_index/5_posting_locs.pickle

gs://all_data_bucket_new/title_index/60_posting_locs.pickle

gs://all data bucket new/title index/61 posting locs.pickle

gs://all data bucket new/title index/63 posting locs.pickle

gs://all_data_bucket_new/title_index/64_posting_locs.pickle

597.87 KiB gs://all_data_bucket_new/title_index/60_000.bin

353.95 KiB gs://all_data_bucket_new/title_index/61_000.bin

430.93 KiB gs://all data bucket new/title index/62 000.bin

399.56 KiB gs://all data bucket new/title index/63 000.bin

392.12 KiB gs://all_data_bucket_new/title_index/64_000.bin

4.58 KiB gs://all data bucket new/title index/62 posting locs.pickle

5.15 KiB

4.07 KiB

4.46 KiB

4.3 KiB

4.66 KiB

```
564.05 KiB gs://all_data_bucket_new/title_index/65_000.bin
5.06 KiB gs://all data bucket new/title index/65 posting locs.pickle
489.07 KiB gs://all_data_bucket_new/title_index/66_000.bin
          gs://all data bucket new/title index/66 posting locs.pickle
596.68 KiB gs://all_data_bucket_new/title_index/67_000.bin
4.04 KiB gs://all_data_bucket_new/title_index/67_posting_locs.pickle
1.08 MiB gs://all_data_bucket_new/title_index/68_000.bin
         gs://all_data_bucket_new/title_index/68_posting_locs.pickle
4.92 KiB
379.03 KiB gs://all data bucket new/title index/69 000.bin
4.44 KiB gs://all_data_bucket_new/title_index/69_posting_locs.pickle
463.04 KiB gs://all data bucket new/title index/6 000.bin
4.79 KiB
         gs://all_data_bucket_new/title_index/6_posting_locs.pickle
540 KiB
         gs://all_data_bucket_new/title_index/70_000.bin
4.21 KiB
         gs://all_data_bucket_new/title_index/70_posting_locs.pickle
719.62 KiB gs://all_data_bucket_new/title_index/71_000.bin
         gs://all_data_bucket_new/title_index/71_posting_locs.pickle
610.96 KiB gs://all_data_bucket_new/title_index/72_000.bin
4.44 KiB gs://all_data_bucket_new/title_index/72_posting_locs.pickle
359.44 KiB gs://all data bucket new/title index/73 000.bin
         gs://all data bucket new/title index/73 posting locs.pickle
4.63 KiB
624.8 KiB gs://all data bucket new/title index/74 000.bin
4.78 KiB gs://all data bucket new/title index/74 posting locs.pickle
390.06 KiB gs://all_data_bucket_new/title_index/75_000.bin
4.38 KiB gs://all_data_bucket_new/title_index/75_posting_locs.pickle
444.46 KiB gs://all_data_bucket_new/title_index/76_000.bin
```

```
4.82 KiB gs://all_data_bucket_new/title_index/76_posting_locs.pickle
753.9 KiB gs://all_data_bucket_new/title_index/77_000.bin
```

gs://all_data_bucket_new/title_index/77_posting_locs.pickle

344.36 KiB gs://all_data_bucket_new/title_index/78_000.bin

4.86 KiB

4.78 KiB gs://all_data_bucket_new/title_index/78_posting_locs.pickle

451.86 KiB gs://all_data_bucket_new/title_index/79_000.bin

4.88 KiB gs://all_data_bucket_new/title_index/79_posting_locs.pickle

762.5 KiB gs://all_data_bucket_new/title_index/7_000.bin

4.59 KiB gs://all_data_bucket_new/title_index/7_posting_locs.pickle

339.87 KiB gs://all_data_bucket_new/title_index/80_000.bin

4.41 KiB gs://all_data_bucket_new/title_index/80_posting_locs.pickle

659.77 KiB gs://all_data_bucket_new/title_index/81_000.bin

4.32 KiB gs://all_data_bucket_new/title_index/81_posting_locs.pickle

848.54 KiB gs://all_data_bucket_new/title_index/82_000.bin

5.12 KiB gs://all_data_bucket_new/title_index/82_posting_locs.pickle

618.14 KiB gs://all_data_bucket_new/title_index/83_000.bin

4.46 KiB gs://all_data_bucket_new/title_index/83_posting_locs.pickle

372.94 KiB gs://all_data_bucket_new/title_index/84_000.bin

4.5 KiB gs://all data bucket new/title index/84 posting locs.pickle

387.18 KiB gs://all_data_bucket_new/title_index/85_000.bin

4.86 KiB gs://all data bucket new/title index/85 posting locs.pickle

605.15 KiB gs://all_data_bucket_new/title_index/86_000.bin

4.5 KiB gs://all_data_bucket_new/title_index/86_posting_locs.pickle

451.41 KiB gs://all_data_bucket_new/title_index/87_000.bin

5.02 KiB gs://all_data_bucket_new/title_index/87_posting_locs.pickle

```
623.2 KiB gs://all_data_bucket_new/title_index/88_000.bin
```

- 4.44 KiB gs://all_data_bucket_new/title_index/88_posting_locs.pickle
- 598.99 KiB gs://all_data_bucket_new/title_index/89_000.bin
- 4.02 KiB gs://all data bucket new/title index/89 posting locs.pickle
- 784.32 KiB gs://all_data_bucket_new/title_index/8_000.bin
- 5.04 KiB gs://all_data_bucket_new/title_index/8_posting_locs.pickle
- 548.71 KiB gs://all_data_bucket_new/title_index/90_000.bin
- 4.18 KiB gs://all_data_bucket_new/title_index/90_posting_locs.pickle
- 472.2 KiB gs://all_data_bucket_new/title_index/91_000.bin
- 4.54 KiB gs://all_data_bucket_new/title_index/91_posting_locs.pickle
- 412.32 KiB gs://all_data_bucket_new/title_index/92_000.bin
- 5.12 KiB gs://all_data_bucket_new/title_index/92_posting_locs.pickle
- 474.11 KiB gs://all_data_bucket_new/title_index/93_000.bin
- 4.06 KiB gs://all_data_bucket_new/title_index/93_posting_locs.pickle
- 525.99 KiB gs://all_data_bucket_new/title_index/94_000.bin
- 4.72 KiB gs://all_data_bucket_new/title_index/94_posting_locs.pickle
- 571.62 KiB gs://all_data_bucket_new/title_index/95_000.bin
- 4.53 KiB gs://all_data_bucket_new/title_index/95_posting_locs.pickle
- 721.59 KiB gs://all data bucket new/title index/96 000.bin
- 5.07 KiB gs://all_data_bucket_new/title_index/96_posting_locs.pickle
- 347.61 KiB gs://all data bucket new/title index/97 000.bin
- 4.81 KiB gs://all_data_bucket_new/title_index/97_posting_locs.pickle
- 618.46 KiB gs://all_data_bucket_new/title_index/98_000.bin
- 4.33 KiB gs://all_data_bucket_new/title_index/98_posting_locs.pickle
- 435.49 KiB gs://all_data_bucket_new/title_index/99_000.bin

```
4.36 KiB
         gs://all_data_bucket_new/title_index/99_posting_locs.pickle
427.22 KiB gs://all data bucket new/title index/9 000.bin
4.17 KiB gs://all_data_bucket_new/title_index/9_posting_locs.pickle
43.47 MiB gs://all data bucket new/title index/title index.pkl
109.15 MiB gs://all_data_bucket_new/title_index/
        gs://all data bucket new/title index stemming/
0 B
499.03 KiB gs://all_data_bucket_new/title_index_stemming/0_000.bin
3.83 KiB gs://all_data_bucket_new/title_index_stemming/0_posting_locs.pickle
595.42 KiB gs://all data bucket new/title index stemming/100 000.bin
4.21 KiB gs://all_data_bucket_new/title_index_stemming/100_posting_locs.pickle
604.24 KiB gs://all data bucket new/title index stemming/101 000.bin
         gs://all_data_bucket_new/title_index_stemming/101_posting_locs.pickle
372.13 KiB gs://all_data_bucket_new/title_index_stemming/102_000.bin
4.16 KiB gs://all_data_bucket_new/title_index_stemming/102_posting_locs.pickle
406.22 KiB gs://all_data_bucket_new/title_index_stemming/103_000.bin
         gs://all_data_bucket_new/title_index_stemming/103_posting_locs.pickle
4.16 KiB
1.27 MiB gs://all_data_bucket_new/title_index_stemming/104_000.bin
4.38 KiB
         gs://all_data_bucket_new/title_index_stemming/104_posting_locs.pickle
288.87 KiB gs://all data bucket new/title index stemming/105 000.bin
         gs://all data bucket new/title index stemming/105 posting locs.pickle
297.21 KiB gs://all data bucket new/title index stemming/106 000.bin
3.67 KiB
         gs://all data bucket new/title index stemming/106 posting locs.pickle
606.5 KiB gs://all data bucket new/title index stemming/107 000.bin
         gs://all_data_bucket_new/title_index_stemming/107_posting_locs.pickle
4.25 KiB
404.48 KiB gs://all_data_bucket_new/title_index_stemming/108_000.bin
```

```
3.67 KiB
         gs://all_data_bucket_new/title_index_stemming/108_posting_locs.pickle
436.83 KiB gs://all data bucket new/title index stemming/109 000.bin
         gs://all_data_bucket_new/title_index_stemming/109_posting_locs.pickle
4.55 KiB
559.6 KiB
         gs://all data bucket new/title index stemming/10 000.bin
         gs://all data_bucket_new/title_index_stemming/10_posting_locs.pickle
4.73 KiB
930.79 KiB gs://all_data_bucket_new/title_index_stemming/110_000.bin
4.3 KiB
         gs://all_data_bucket_new/title_index_stemming/110_posting_locs.pickle
770.9 KiB gs://all_data_bucket_new/title_index_stemming/111_000.bin
4.2 KiB
         gs://all data bucket new/title index stemming/111 posting locs.pickle
696.48 KiB gs://all_data_bucket_new/title_index_stemming/112_000.bin
         gs://all data bucket new/title index stemming/112 posting locs.pickle
4.46 KiB
475.14 KiB gs://all_data_bucket_new/title_index_stemming/113_000.bin
         gs://all_data_bucket_new/title_index_stemming/113_posting_locs.pickle
4.37 KiB
303.63 KiB gs://all_data_bucket_new/title_index_stemming/114_000.bin
         gs://all_data_bucket_new/title_index_stemming/114_posting_locs.pickle
3.56 KiB
283.54 KiB gs://all_data_bucket_new/title_index_stemming/115_000.bin
3.81 KiB
        gs://all_data_bucket_new/title_index_stemming/115_posting_locs.pickle
527.55 KiB gs://all_data_bucket_new/title_index_stemming/116_000.bin
         gs://all data bucket new/title index stemming/116 posting locs.pickle
4.86 KiB
429.87 KiB gs://all data bucket new/title index stemming/117 000.bin
4.08 KiB
         gs://all data bucket new/title index stemming/117 posting locs.pickle
557.54 KiB gs://all_data_bucket_new/title_index_stemming/118_000.bin
         gs://all data bucket new/title index stemming/118 posting locs.pickle
4.38 KiB
390.36 KiB gs://all_data_bucket_new/title_index_stemming/119_000.bin
         gs://all_data_bucket_new/title_index_stemming/119_posting_locs.pickle
```

```
738.43 KiB gs://all_data_bucket_new/title_index_stemming/11_000.bin
4.54 KiB gs://all data bucket new/title index stemming/11 posting locs.pickle
333.98 KiB gs://all_data_bucket_new/title_index_stemming/120_000.bin
4.2 KiB
         gs://all data bucket new/title index stemming/120 posting locs.pickle
471.25 KiB gs://all_data_bucket_new/title_index_stemming/121_000.bin
4.13 KiB gs://all_data_bucket_new/title_index_stemming/121_posting_locs.pickle
585.84 KiB gs://all_data_bucket_new/title_index_stemming/122_000.bin
4.03 KiB
         gs://all_data_bucket_new/title_index_stemming/122_posting_locs.pickle
511.85 KiB gs://all data bucket new/title index stemming/123 000.bin
4.08 KiB
         gs://all_data_bucket_new/title_index_stemming/123_posting_locs.pickle
593.2 KiB gs://all data bucket new/title index stemming/12 000.bin
         gs://all_data_bucket_new/title_index_stemming/12_posting_locs.pickle
4.45 KiB
455.42 KiB gs://all_data_bucket_new/title_index_stemming/13_000.bin
4.35 KiB gs://all_data_bucket_new/title_index_stemming/13_posting_locs.pickle
408.86 KiB gs://all_data_bucket_new/title_index_stemming/14_000.bin
         gs://all_data_bucket_new/title_index_stemming/14_posting_locs.pickle
4.4 KiB
440.06 KiB gs://all_data_bucket_new/title_index_stemming/15_000.bin
         gs://all_data_bucket_new/title_index_stemming/15_posting_locs.pickle
569.19 KiB gs://all data bucket new/title index stemming/16 000.bin
         gs://all data bucket new/title index stemming/16 posting locs.pickle
3.9 KiB
752.5 KiB gs://all data bucket new/title index stemming/17 000.bin
4.25 KiB
         gs://all data bucket new/title index stemming/17 posting locs.pickle
461.09 KiB gs://all_data_bucket_new/title_index_stemming/18_000.bin
4.27 KiB gs://all_data_bucket_new/title_index_stemming/18_posting_locs.pickle
494.32 KiB gs://all_data_bucket_new/title_index_stemming/19_000.bin
```

```
4.29 KiB
         gs://all_data_bucket_new/title_index_stemming/19_posting_locs.pickle
449.33 KiB gs://all data bucket new/title index stemming/1 000.bin
         gs://all_data_bucket_new/title_index_stemming/1_posting_locs.pickle
784.09 KiB gs://all data bucket new/title index stemming/20 000.bin
4.84 KiB
         gs://all_data_bucket_new/title_index_stemming/20_posting_locs.pickle
412.93 KiB gs://all_data_bucket_new/title_index_stemming/21_000.bin
         gs://all_data_bucket_new/title_index_stemming/21_posting_locs.pickle
470.44 KiB gs://all_data_bucket_new/title_index_stemming/22_000.bin
4.14 KiB
         gs://all data bucket new/title index stemming/22 posting locs.pickle
450.38 KiB gs://all_data_bucket_new/title_index_stemming/23_000.bin
4.43 KiB
         gs://all data bucket new/title index stemming/23 posting locs.pickle
390.6 KiB gs://all_data_bucket_new/title_index_stemming/24_000.bin
         gs://all_data_bucket_new/title_index_stemming/24_posting_locs.pickle
3.97 KiB
551.76 KiB gs://all_data_bucket_new/title_index_stemming/25_000.bin
         gs://all_data_bucket_new/title_index_stemming/25_posting_locs.pickle
4.48 KiB
517.92 KiB gs://all_data_bucket_new/title_index_stemming/26_000.bin
4.65 KiB
         gs://all_data_bucket_new/title_index_stemming/26_posting_locs.pickle
514.59 KiB gs://all_data_bucket_new/title_index_stemming/27_000.bin
         gs://all data bucket new/title index stemming/27 posting locs.pickle
4.38 KiB
579.56 KiB gs://all data bucket new/title index stemming/28 000.bin
3.95 KiB
         gs://all data bucket new/title index stemming/28 posting locs.pickle
365.48 KiB gs://all_data_bucket_new/title_index_stemming/29_000.bin
         gs://all_data_bucket_new/title_index_stemming/29_posting_locs.pickle
4.15 KiB
552.66 KiB gs://all_data_bucket_new/title_index_stemming/2_000.bin
4.14 KiB gs://all_data_bucket_new/title_index_stemming/2_posting_locs.pickle
```

```
701.87 KiB gs://all_data_bucket_new/title_index_stemming/30_000.bin
4.35 KiB gs://all data bucket new/title index stemming/30 posting locs.pickle
620.62 KiB gs://all_data_bucket_new/title_index_stemming/31_000.bin
3.65 KiB
         gs://all data bucket new/title index stemming/31 posting locs.pickle
422.9 KiB gs://all_data_bucket_new/title_index_stemming/32_000.bin
         gs://all_data_bucket_new/title_index_stemming/32_posting_locs.pickle
4.21 KiB
592.46 KiB gs://all_data_bucket_new/title_index_stemming/33_000.bin
4.08 KiB
         gs://all_data_bucket_new/title_index_stemming/33_posting_locs.pickle
729.7 KiB gs://all data bucket new/title index stemming/34 000.bin
4.24 KiB
         gs://all_data_bucket_new/title_index_stemming/34_posting_locs.pickle
633.56 KiB gs://all data bucket new/title index stemming/35 000.bin
4.2 KiB
         gs://all_data_bucket_new/title_index_stemming/35_posting_locs.pickle
816.85 KiB gs://all_data_bucket_new/title_index_stemming/36_000.bin
4.08 KiB gs://all_data_bucket_new/title_index_stemming/36_posting_locs.pickle
570.96 KiB gs://all_data_bucket_new/title_index_stemming/37_000.bin
         gs://all_data_bucket_new/title_index_stemming/37_posting_locs.pickle
414.46 KiB gs://all_data_bucket_new/title_index_stemming/38_000.bin
4.13 KiB gs://all_data_bucket_new/title_index_stemming/38_posting_locs.pickle
389.86 KiB gs://all data bucket new/title index stemming/39 000.bin
         gs://all data bucket new/title index stemming/39 posting locs.pickle
3.7 KiB
536.64 KiB gs://all data bucket new/title index stemming/3 000.bin
3.95 KiB gs://all data bucket new/title index stemming/3 posting locs.pickle
312.97 KiB gs://all_data_bucket_new/title_index_stemming/40_000.bin
3.97 KiB gs://all_data_bucket_new/title_index_stemming/40_posting_locs.pickle
655.1 KiB gs://all_data_bucket_new/title_index_stemming/41_000.bin
```

```
4.39 KiB
         gs://all_data_bucket_new/title_index_stemming/41_posting_locs.pickle
531.06 KiB gs://all data bucket new/title index stemming/42 000.bin
         gs://all_data_bucket_new/title_index_stemming/42_posting_locs.pickle
565.45 KiB gs://all data bucket new/title index stemming/43 000.bin
         gs://all data_bucket_new/title_index_stemming/43_posting_locs.pickle
4.82 KiB
498.41 KiB gs://all_data_bucket_new/title_index_stemming/44_000.bin
         gs://all_data_bucket_new/title_index_stemming/44_posting_locs.pickle
455.96 KiB gs://all_data_bucket_new/title_index_stemming/45_000.bin
4.05 KiB
         gs://all data bucket new/title index stemming/45 posting locs.pickle
432.11 KiB gs://all_data_bucket_new/title_index_stemming/46_000.bin
         gs://all data bucket new/title index stemming/46 posting locs.pickle
3.96 KiB
360.88 KiB gs://all_data_bucket_new/title_index_stemming/47_000.bin
         gs://all_data_bucket_new/title_index_stemming/47_posting_locs.pickle
3.54 KiB
583.71 KiB gs://all_data_bucket_new/title_index_stemming/48_000.bin
         gs://all_data_bucket_new/title_index_stemming/48_posting_locs.pickle
4.15 KiB
473.6 KiB gs://all_data_bucket_new/title_index_stemming/49_000.bin
4.11 KiB
         gs://all_data_bucket_new/title_index_stemming/49_posting_locs.pickle
610.65 KiB gs://all_data_bucket_new/title_index_stemming/4_000.bin
         gs://all data bucket new/title index stemming/4 posting locs.pickle
4.96 KiB
403.09 KiB gs://all data bucket new/title index stemming/50 000.bin
4.44 KiB
         gs://all data bucket new/title index stemming/50 posting locs.pickle
560.4 KiB gs://all data bucket new/title index stemming/51 000.bin
4.24 KiB
         gs://all_data_bucket_new/title_index_stemming/51_posting_locs.pickle
640.24 KiB gs://all_data_bucket_new/title_index_stemming/52_000.bin
         gs://all_data_bucket_new/title_index_stemming/52_posting_locs.pickle
```

```
574.93 KiB gs://all_data_bucket_new/title_index_stemming/53_000.bin
4.26 KiB gs://all data bucket new/title index stemming/53 posting locs.pickle
912.29 KiB gs://all_data_bucket_new/title_index_stemming/54_000.bin
        gs://all data bucket new/title index stemming/54 posting locs.pickle
483.42 KiB gs://all_data_bucket_new/title_index_stemming/55_000.bin
3.99 KiB gs://all_data_bucket_new/title_index_stemming/55_posting_locs.pickle
822.54 KiB gs://all_data_bucket_new/title_index_stemming/56_000.bin
3.74 KiB gs://all_data_bucket_new/title_index_stemming/56_posting_locs.pickle
478.47 KiB gs://all data bucket new/title index stemming/57 000.bin
4.22 KiB gs://all_data_bucket_new/title_index_stemming/57_posting_locs.pickle
592.18 KiB gs://all_data_bucket_new/title_index_stemming/58_000.bin
         gs://all_data_bucket_new/title_index_stemming/58_posting_locs.pickle
772.89 KiB gs://all_data_bucket_new/title_index_stemming/59_000.bin
         gs://all_data_bucket_new/title_index_stemming/59_posting_locs.pickle
4.33 KiB
531.8 KiB gs://all_data_bucket_new/title_index_stemming/5_000.bin
         gs://all_data_bucket_new/title_index_stemming/5_posting_locs.pickle
4.41 KiB
358.63 KiB gs://all_data_bucket_new/title_index_stemming/60_000.bin
3.91 KiB gs://all_data_bucket_new/title_index_stemming/60_posting_locs.pickle
348.93 KiB gs://all data bucket new/title index stemming/61 000.bin
4.34 KiB gs://all data bucket new/title index stemming/61 posting locs.pickle
550.03 KiB gs://all data bucket new/title index stemming/62 000.bin
4.37 KiB gs://all_data_bucket_new/title_index_stemming/62_posting_locs.pickle
377.26 KiB gs://all_data_bucket_new/title_index_stemming/63_000.bin
3.83 KiB gs://all_data_bucket_new/title_index_stemming/63_posting_locs.pickle
490.9 KiB gs://all_data_bucket_new/title_index_stemming/64_000.bin
```

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4.68 KiB
          gs://all_data_bucket_new/title_index_stemming/64_posting_locs.pickle
770.07 KiB gs://all data bucket new/title index stemming/65 000.bin
          gs://all_data_bucket_new/title_index_stemming/65_posting_locs.pickle
426.77 KiB gs://all data bucket new/title index stemming/66 000.bin
3.88 KiB
          gs://all data_bucket_new/title_index_stemming/66_posting_locs.pickle
551.38 KiB gs://all_data_bucket_new/title_index_stemming/67_000.bin
3.67 KiB
         gs://all_data_bucket_new/title_index_stemming/67_posting_locs.pickle
1.13 MiB gs://all_data_bucket_new/title_index_stemming/68_000.bin
4.08 KiB
         gs://all data bucket new/title index stemming/68 posting locs.pickle
393.84 KiB gs://all_data_bucket_new/title_index_stemming/69_000.bin
          gs://all data bucket new/title index stemming/69 posting locs.pickle
3.89 KiB
469.27 KiB gs://all_data_bucket_new/title_index_stemming/6_000.bin
4.33 KiB
          gs://all_data_bucket_new/title_index_stemming/6_posting_locs.pickle
529.2 KiB gs://all_data_bucket_new/title_index_stemming/70_000.bin
3.86 KiB
         gs://all_data_bucket_new/title_index_stemming/70_posting_locs.pickle
          gs://all_data_bucket_new/title_index_stemming/71_000.bin
1.3 MiB
4.23 KiB
         gs://all_data_bucket_new/title_index_stemming/71_posting_locs.pickle
509.8 KiB gs://all_data_bucket_new/title_index_stemming/72_000.bin
          gs://all data bucket new/title index stemming/72 posting locs.pickle
3.99 KiB
334.06 KiB gs://all data bucket new/title index stemming/73 000.bin
4.39 KiB
          gs://all data bucket new/title index stemming/73 posting locs.pickle
741.98 KiB gs://all_data_bucket_new/title_index_stemming/74_000.bin
          gs://all_data_bucket_new/title_index_stemming/74_posting_locs.pickle
4.23 KiB
454.73 KiB gs://all_data_bucket_new/title_index_stemming/75_000.bin
         gs://all_data_bucket_new/title_index_stemming/75_posting_locs.pickle
```

```
549.59 KiB gs://all_data_bucket_new/title_index_stemming/76_000.bin
4.21 KiB gs://all data bucket new/title index stemming/76 posting locs.pickle
696.67 KiB gs://all_data_bucket_new/title_index_stemming/77_000.bin
4.66 KiB
         gs://all data bucket new/title index stemming/77 posting locs.pickle
318.8 KiB gs://all_data_bucket_new/title_index_stemming/78_000.bin
         gs://all_data_bucket_new/title_index_stemming/78_posting_locs.pickle
4.53 KiB
445.24 KiB gs://all_data_bucket_new/title_index_stemming/79_000.bin
4.01 KiB
         gs://all_data_bucket_new/title_index_stemming/79_posting_locs.pickle
751.1 KiB gs://all data bucket new/title index stemming/7 000.bin
4.07 KiB
         gs://all_data_bucket_new/title_index_stemming/7_posting_locs.pickle
326.48 KiB gs://all data bucket new/title index stemming/80 000.bin
         gs://all_data_bucket_new/title_index_stemming/80_posting_locs.pickle
4.18 KiB
651.8 KiB gs://all_data_bucket_new/title_index_stemming/81_000.bin
         gs://all_data_bucket_new/title_index_stemming/81_posting_locs.pickle
4.26 KiB
797.12 KiB gs://all_data_bucket_new/title_index_stemming/82_000.bin
         gs://all_data_bucket_new/title_index_stemming/82_posting_locs.pickle
4.67 KiB
680.23 KiB gs://all_data_bucket_new/title_index_stemming/83_000.bin
4.36 KiB
         gs://all_data_bucket_new/title_index_stemming/83_posting_locs.pickle
473.58 KiB gs://all data bucket new/title index stemming/84 000.bin
         gs://all data bucket new/title index stemming/84 posting locs.pickle
4.11 KiB
392 KiB
         gs://all data bucket new/title index stemming/85 000.bin
4.41 KiB
         gs://all data bucket new/title index stemming/85 posting locs.pickle
527.31 KiB gs://all_data_bucket_new/title_index_stemming/86_000.bin
         gs://all_data_bucket_new/title_index_stemming/86_posting_locs.pickle
544.39 KiB gs://all_data_bucket_new/title_index_stemming/87_000.bin
```

```
4.62 KiB
          gs://all_data_bucket_new/title_index_stemming/87_posting_locs.pickle
369.11 KiB gs://all data bucket new/title index stemming/88 000.bin
          gs://all_data_bucket_new/title_index_stemming/88_posting_locs.pickle
830.95 KiB gs://all data bucket new/title index stemming/89 000.bin
         gs://all data_bucket_new/title_index_stemming/89_posting_locs.pickle
4.13 KiB
864.99 KiB gs://all_data_bucket_new/title_index_stemming/8_000.bin
4.9 KiB
         gs://all_data_bucket_new/title_index_stemming/8_posting_locs.pickle
581.51 KiB gs://all_data_bucket_new/title_index_stemming/90_000.bin
4.16 KiB
         gs://all data bucket new/title index stemming/90 posting locs.pickle
452.9 KiB gs://all_data_bucket_new/title_index_stemming/91_000.bin
4.05 KiB
          gs://all data bucket new/title index stemming/91 posting locs.pickle
525.81 KiB gs://all_data_bucket_new/title_index_stemming/92_000.bin
         gs://all_data_bucket_new/title_index_stemming/92_posting_locs.pickle
4.59 KiB
749.87 KiB gs://all_data_bucket_new/title_index_stemming/93_000.bin
         gs://all_data_bucket_new/title_index_stemming/93_posting_locs.pickle
4.03 KiB
498.96 KiB gs://all_data_bucket_new/title_index_stemming/94_000.bin
4.12 KiB
         gs://all_data_bucket_new/title_index_stemming/94_posting_locs.pickle
926.91 KiB gs://all_data_bucket_new/title_index_stemming/95_000.bin
          gs://all data bucket new/title index stemming/95 posting locs.pickle
4.27 KiB
608.48 KiB gs://all data bucket new/title index stemming/96 000.bin
4.47 KiB
         gs://all data bucket new/title index stemming/96 posting locs.pickle
386.48 KiB gs://all_data_bucket_new/title_index_stemming/97_000.bin
          gs://all_data_bucket_new/title_index_stemming/97_posting_locs.pickle
4.77 KiB
599.38 KiB gs://all_data_bucket_new/title_index_stemming/98_000.bin
         gs://all_data_bucket_new/title_index_stemming/98_posting_locs.pickle
```

```
521.13 KiB gs://all_data_bucket_new/title_index_stemming/99_000.bin

3.66 KiB gs://all_data_bucket_new/title_index_stemming/99_posting_locs.pickle

621.35 KiB gs://all_data_bucket_new/title_index_stemming/9_000.bin

3.94 KiB gs://all_data_bucket_new/title_index_stemming/9_posting_locs.pickle

43.46 MiB gs://all_data_bucket_new/title_index_stemming/stemming_title_index.pkl

111.13 MiB gs://all_data_bucket_new/title_index_stemming/
```

13.56 GiB total