Lucene Assessment 1 Instructions

Process to run the file:

A. Open Terminal and connect to AWS EC2 Instance:

Instance ID: i-094f027728c91e121

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is test.pem
3. Run this command: chmod 400 test.pem   //test.pem will be attached in the mail.
4. Connect to your instance using its Public DNS:
   ec2-18-234-214-108.compute-1.amazonaws.com

Example:

1. ssh -i "test.pem" ec2-user@ec2-18-234-214-108.compute-1.amazonaws.com

B. Open Example3-query folder in terminal:

1. Build maven package: mvn package
2. Then Run: java -jar target/example3-1.2.jar   //Available in target folder.

C. Results will be built in the Cran folder with name Query.results.

D. Go to the Trec_eval-9.0.7 folder in terminal:

1. Run the command: make
2. Then Run: ./trec_eval test/Qrel.test ../cran/Query.results

You can get this output.

P_5: 0.4373, **P_10**: 0.3071, **iprec_at_recall_0.00**: 0.8251, **iprec_at_recall_0.10**: 0.7876

Results:

```
[ec2-user@ip-172-31-16-90 trec_eval-9.0.7]$ ./trec_eval  test/Qrel.test ../cran/Query.results
runid                   all     EXP
num_q                   all     225
num_ret                 all     200754
num_rel                 all     1837
num_rel_ret             all     1757
map                     all     0.4184
gm_map                  all     0.2971
Rprec                   all     0.3874
bpref                   all     0.9551
recip_rank              all     0.8077
iprec_at_recall_0.00    all     0.8251
iprec_at_recall_0.10    all     0.7876
iprec_at_recall_0.20    all     0.6829
iprec_at_recall_0.30    all     0.5650
iprec_at_recall_0.40    all     0.4824
iprec_at_recall_0.50    all     0.4294
iprec_at_recall_0.60    all     0.3441
iprec_at_recall_0.70    all     0.2842
iprec_at_recall_0.80    all     0.1976
iprec_at_recall_0.90    all     0.1383
iprec_at_recall_1.00    all     0.1252
P_5                     all     0.4373
P_10                    all     0.3071
P_15                    all     0.2409
P_20                    all     0.2020
P_30                    all     0.1519
P_100                   all     0.0587
P_200                   all     0.0332
P_500                   all     0.0147
P_1000                  all     0.0078
```

Results:

```
[ec2-user@ip-172-31-16-90 trec_eval-9.0.7]$ ./trec_eval  test/Qrel.test ../cran/Query.results
runid                   all     EXP
num_q                   all     225
num_ret                 all     200754
num_rel                 all     1837
num_rel_ret             all     1757
map                     all     0.4184
gm_map                  all     0.2971
Rprec                   all     0.3874
bpref                   all     0.9551
recip_rank              all     0.8077
iprec_at_recall_0.00    all     0.8251
iprec_at_recall_0.10    all     0.7876
iprec_at_recall_0.20    all     0.6829
iprec_at_recall_0.30    all     0.5650
iprec_at_recall_0.40    all     0.4824
iprec_at_recall_0.50    all     0.4294
iprec_at_recall_0.60    all     0.3441
iprec_at_recall_0.70    all     0.2842
iprec_at_recall_0.80    all     0.1976
iprec_at_recall_0.90    all     0.1383
iprec_at_recall_1.00    all     0.1252
P_5                     all     0.4373
P_10                    all     0.3071
P_15                    all     0.2409
P_20                    all     0.2020
P_30                    all     0.1519
P_100                   all     0.0587
P_200                   all     0.0332
P_500                   all     0.0147
P_1000                  all     0.0078
```