Results for ziyiy@andrew.cmu.edu on boston-web2.lti.cs.cmu.edu :

---- Your file is uploaded ----

---- Unpack the zip file ----

```
Archive:  QryEval.zip
   creating: QryEval/
  inflating: QryEval/Qry.java
  inflating: QryEval/PopData.java
   creating: __MACOSX/
   creating: __MACOSX/QryEval/
  inflating: __MACOSX/QryEval/._PopData.java
  inflating: QryEval/detailed.py
  inflating: __MACOSX/QryEval/._detailed.py
  inflating: QryEval/.DS_Store
  inflating: __MACOSX/QryEval/._.DS_Store
  inflating: QryEval/QrySopSum.java
  inflating: QryEval/QrySopScore.java
  inflating: QryEval/QrySopWAnd.java
   creating: QryEval/out/
  inflating: QryEval/out/.DS_Store
   creating: __MACOSX/QryEval/out/
  inflating: __MACOSX/QryEval/out/._.DS_Store
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  inflating: QryEval/out/production/QryEval/QryIopNear.class
  inflating: QryEval/out/production/QryEval/QrySop.class
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  inflating: QryEval/out/production/QryEval/RetrievalModelBM25.class
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 inflating: QryEval/.git/objects/78/3614595fba41a51b6a514b349766b9e4a27b88
 inflating: QryEval/.git/objects/78/9c7d305449022dd17268cd34c8927fdab400ad
 inflating: QryEval/.git/objects/78/f0693c6b68581daaf31bb3abd91e97aa59db01
  creating: QryEval/.git/objects/8b/
 inflating: QryEval/.git/objects/8b/ce794df2463b65da5b9bf4b16016a621cf217a
  creating: QryEval/.git/objects/13/
 inflating: QryEval/.git/objects/13/c8fb2abaee283af257cb537cd1ebe5d1e807d3
 inflating: QryEval/.git/objects/13/02783fa35d5f15275beea1ef6146db6312a493
  creating: QryEval/.git/objects/7f/
 inflating: QryEval/.git/objects/7f/7c911296b09263ec4c5073f2877ccc2011ac47
  creating: QryEval/.git/objects/7a/
 inflating: QryEval/.git/objects/7a/15f5d532a12d9865bb17e3c6b7c0ef672a7c8f
 inflating: QryEval/.git/objects/7a/13b3ea101daa7de26961f64b05f32226e268c5
 inflating: QryEval/.git/objects/7a/89a32750daf8385ddd4fda96d105fcc4c05e59
  creating: QryEval/.git/objects/14/
 inflating: QryEval/.git/objects/14/ac901cc3a1fd1ea01fe44e7974849cff0875ef
  creating: QryEval/.git/objects/8e/
 inflating: QryEval/.git/objects/8e/2e4cf0b99da0a24d10d201e5dc59f9014dc258
 inflating: QryEval/.git/objects/8e/d09a01a136637096fdd313e8c05a8b1aa3d446
 inflating: QryEval/.git/objects/8e/cdbd84b67fbe5072fd35434ef3c1225929df77
  creating: QryEval/.git/objects/22/
 inflating: QryEval/.git/objects/22/d597c2e1f5b62858cc35a7e8681479c09f0fad
 inflating: QryEval/.git/objects/22/da5c682e07a137de0d6212101324074e824bc1
  creating: QryEval/.git/objects/25/
 inflating: QryEval/.git/objects/25/7dc7a9ec68eb7d8113fa242736d2a60b5bce5e
 inflating: QryEval/.git/HEAD
  creating: QryEval/.git/info/
 inflating: QryEval/.git/info/exclude
  creating: QryEval/.git/logs/
 inflating: QryEval/.git/logs/HEAD
  creating: QryEval/.git/logs/refs/
  creating: QryEval/.git/logs/refs/heads/
 inflating: QryEval/.git/logs/refs/heads/master
  creating: QryEval/.git/logs/refs/remotes/
  creating: QryEval/.git/logs/refs/remotes/origin/
 inflating: QryEval/.git/logs/refs/remotes/origin/master
 inflating: QryEval/.git/description
  creating: QryEval/.git/hooks/
 inflating: QryEval/.git/hooks/commit-msg.sample
 inflating: QryEval/.git/hooks/pre-rebase.sample
 inflating: QryEval/.git/hooks/pre-commit.sample
 inflating: QryEval/.git/hooks/applypatch-msg.sample
 inflating: QryEval/.git/hooks/fsmonitor-watchman.sample
 inflating: QryEval/.git/hooks/pre-receive.sample
 inflating: QryEval/.git/hooks/prepare-commit-msg.sample
 inflating: QryEval/.git/hooks/post-update.sample
 inflating: QryEval/.git/hooks/pre-applypatch.sample
 inflating: QryEval/.git/hooks/pre-push.sample
 inflating: QryEval/.git/hooks/update.sample
  creating: QryEval/.git/refs/
  creating: QryEval/.git/refs/heads/
 inflating: QryEval/.git/refs/heads/master
  creating: QryEval/.git/refs/tags/
  creating: QryEval/.git/refs/remotes/
  creating: QryEval/.git/refs/remotes/origin/
 inflating: QryEval/.git/refs/remotes/origin/master
 inflating: QryEval/.git/index
  creating: QryEval/.git/branches/
 inflating: QryEval/.git/COMMIT_EDITMSG
 inflating: QryEval/.git/FETCH_HEAD
 inflating: QryEval/DocFeatures.java
 inflating: QryEval/QrySopWSum.java
 inflating: QryEval/WeightedDoc.java
  creating: QryEval/INPUT_DIR/
 inflating: QryEval/INPUT_DIR/.DS_Store
  creating: __MACOSX/QryEval/INPUT_DIR/
 inflating: __MACOSX/QryEval/INPUT_DIR/._.DS_Store
  creating: QryEval/INPUT_DIR/index/
 inflating: QryEval/INPUT_DIR/svm_rank_learn
 inflating: QryEval/INPUT_DIR/svm_rank_classify
 inflating: QryEval/RetrievalModelUnrankedBoolean.java
 inflating: __MACOSX/QryEval/._RetrievalModelUnrankedBoolean.java
 inflating: QryEval/QrySopOr.java
```

```
 inflating: QryEval/score.py
 inflating: __MACOSX/QryEval/._score.py
 inflating: QryEval/TermVector.java
 inflating: __MACOSX/QryEval/._TermVector.java
 inflating: QryEval/EnglishAnalyzerConfigurable.java
 inflating: __MACOSX/QryEval/._EnglishAnalyzerConfigurable.java
 inflating: QryEval/PageRankScoreMap.java
 inflating: __MACOSX/QryEval/._PageRankScoreMap.java
  creating: QryEval/.idea/
  creating: QryEval/.idea/runConfigurations/
 inflating: QryEval/.idea/runConfigurations/QryEval.xml
  creating: QryEval/.idea/inspectionProfiles/
  creating: QryEval/.idea/libraries/
 inflating: QryEval/.idea/libraries/commons_compress_1_11.xml
 inflating: QryEval/.idea/vcs.xml
 inflating: QryEval/.idea/workspace.xml
 inflating: QryEval/.idea/modules.xml
 inflating: QryEval/.idea/misc.xml
 inflating: __MACOSX/._QryEval
```

---- Build the system ----

```
javac 1.8.0_40
```

```
# assume Linux
javac -Xlint -cp ".:lucene-6.6.0/*" -g *.java
```

---- Runtime environment ----

```
java version "1.8.0_40"
Java(TM) SE Runtime Environment (build 1.8.0_40-b25)
Java HotSpot(TM) 64-Bit Server VM (build 25.40-b25, mixed mode)
```

---- Test HW4-Train-3 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-3.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-3.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-3.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-3.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-3.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

Elapsed: 10 seconds
Elapsed: 20 seconds

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 243 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=3.246000
Iter 1: .*(NumConst=1, SV=1, CEps=3246.0000, QPEps=0.0000)
Iter 2: .*(NumConst=2, SV=2, CEps=1854.6209, QPEps=0.0000)
Iter 3: .*(NumConst=3, SV=2, CEps=220.1950, QPEps=20.4638)
Iter 4: .*(NumConst=4, SV=2, CEps=45.3433, QPEps=0.2318)
Iter 5: .*(NumConst=5, SV=1, CEps=12.2176, QPEps=0.0000)
Iter 6: .(NumConst=5, SV=1, CEps=1.1976, QPEps=0.0000)
Final epsilon on KKT-Conditions: 1.19759
Upper bound on duality gap: 0.00120
Dual objective value: dval=2.34504
Primal objective value: pval=2.34624
Total number of constraints in final working set: 5 (of 5)
Number of iterations: 6
Number of calls to 'find_most_violated_constraint': 6
Number of SV: 1
Norm of weight vector: |w|=0.87288
Value of slack variable (on working set): xi=1964.08832
Value of slack variable (global): xi=1965.28591
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=1699.03847
Runtime in cpu-seconds: 0.00
Compacting linear model...done
Writing learned model...done
Memory used:  646 MB
Query 29:ps 2 games
    --> #sum( #SCORE( ps.body ) #SCORE( 2.body ) #SCORE( games.body ) )
Reading model...done.
Reading test examples...done.
```

```
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:   20081.214 ms
```

-- trec_eval output: --

```
num_q             all     1
num_ret           all     100
num_rel           all     14
num_rel_ret       all     5
map               all     0.0947
gm_ap             all     0.0947
R-prec            all     0.0714
bpref             all     0.0714
recip_rank        all     1.0000
ircl_prn.0.00     all     1.0000
ircl_prn.0.10     all     0.1053
ircl_prn.0.20     all     0.0833
ircl_prn.0.30     all     0.0758
ircl_prn.0.40     all     0.0000
ircl_prn.0.50     all     0.0000
ircl_prn.0.60     all     0.0000
ircl_prn.0.70     all     0.0000
ircl_prn.0.80     all     0.0000
ircl_prn.0.90     all     0.0000
ircl_prn.1.00     all     0.0000
P5                all     0.2000
P10               all     0.1000
P15               all     0.0667
P20               all     0.1000
P30               all     0.0667
P100              all     0.0500
P200              all     0.0250
P500              all     0.0100
P1000             all     0.0050
```

-- Grade: --

100.00%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.0], ["6", 0.0], ["7", 0

---- Test HW4-Train-4 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-4.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-4.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-4.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-4.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-4.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 216 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=14.741000
Iter 1: .*(NumConst=1, SV=1, CEps=14741.0000, QPEps=0.0000)
Iter 2: .*(NumConst=2, SV=2, CEps=12848.0161, QPEps=0.0001)
Iter 3: .*(NumConst=3, SV=2, CEps=75.7975, QPEps=24.6338)
Iter 4: .(NumConst=3, SV=2, CEps=9.9828, QPEps=24.6338)
Final epsilon on KKT-Conditions: 24.63383
Upper bound on duality gap: 0.01607
Dual objective value: dval=13.73044
Primal objective value: pval=13.74651
Total number of constraints in final working set: 3 (of 3)
Number of iterations: 4
Number of calls to 'find_most_violated_constraint': 4
Number of SV: 2
Norm of weight vector: |w|=1.14727
Value of slack variable (on working set): xi=13078.40863
Value of slack variable (global): xi=13088.39141
```

```
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=1494.26732
Runtime in cpu-seconds: 0.00
Compacting linear model...done
Writing learned model...done
Memory used:  25 MB
Query 33:elliptical trainer
     --> #sum( #SCORE( elliptic.body ) #SCORE( train.body ) )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:    0.00
Time:  4272.745 ms
```

-- trec_eval output: --

```
num_q          all    1
num_ret        all    100
num_rel        all    141
num_rel_ret    all    82
map            all    0.5118
gm_ap          all    0.5118
R-prec         all    0.5816
bpref          all    0.5496
recip_rank     all    1.0000
ircl_prn.0.00  all    1.0000
ircl_prn.0.10  all    0.9444
ircl_prn.0.20  all    0.8800
ircl_prn.0.30  all    0.8800
ircl_prn.0.40  all    0.8800
ircl_prn.0.50  all    0.8675
ircl_prn.0.60  all    0.0000
ircl_prn.0.70  all    0.0000
ircl_prn.0.80  all    0.0000
ircl_prn.0.90  all    0.0000
ircl_prn.1.00  all    0.0000
P5             all    1.0000
P10            all    0.9000
P15            all    0.9333
P20            all    0.8500
P30            all    0.8667
P100           all    0.8200
P200           all    0.4100
P500           all    0.1640
P1000          all    0.0820
```

-- Grade: --

```
 64.17%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.8914901111949324], ["6"
```

---- Test HW4-Train-5 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-5.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-5.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-5.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-5.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-5.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 276 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=9.488000
Iter 1: .*(NumConst=1, SV=1, CEps=9488.0000, QPEps=0.0003)
Iter 2: .*(NumConst=2, SV=2, CEps=5053.0760, QPEps=0.0000)
Iter 3: .*(NumConst=3, SV=2, CEps=6611.0943, QPEps=0.0003)
Iter 4: .*(NumConst=4, SV=3, CEps=1389.4350, QPEps=7.9317)
Iter 5: .*(NumConst=5, SV=3, CEps=1041.9424, QPEps=18.4354)
Iter 6: .*(NumConst=6, SV=1, CEps=352.2846, QPEps=0.0000)
```

```
Iter 7: .*(NumConst=7, SV=2, CEps=226.3189, QPEps=0.0000)
Iter 8: .*(NumConst=8, SV=2, CEps=55.1727, QPEps=0.0037)
Iter 9: .*(NumConst=9, SV=3, CEps=16.5468, QPEps=0.0000)
Iter 10: .(NumConst=9, SV=3, CEps=4.5883, QPEps=0.0000)
Final epsilon on KKT-Conditions: 4.58834
Upper bound on duality gap: 0.00459
Dual objective value: dval=4.67461
Primal objective value: pval=4.67920
Total number of constraints in final working set: 9 (of 9)
Number of iterations: 10
Number of calls to 'find_most_violated_constraint': 10
Number of SV: 3
Norm of weight vector: |w|=1.12501
Value of slack variable (on working set): xi=4041.78197
Value of slack variable (global): xi=4046.37026
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=7801.64660
Runtime in cpu-seconds: 0.01
Compacting linear model...done
Writing learned model...done
Memory used:  231 MB
Query 52:avp
    --> #SCORE( avp.body )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:   3786.863 ms
```

-- trec_eval output: --

```
num_q           all     1
num_ret         all     100
num_rel         all     47
num_rel_ret     all     20
map             all     0.2846
gm_ap           all     0.2846
R-prec          all     0.3617
bpref           all     0.3282
recip_rank      all     1.0000
ircl_prn.0.00   all     1.0000
ircl_prn.0.10   all     0.8333
ircl_prn.0.20   all     0.8333
ircl_prn.0.30   all     0.4857
ircl_prn.0.40   all     0.3276
ircl_prn.0.50   all     0.0000
ircl_prn.0.60   all     0.0000
ircl_prn.0.70   all     0.0000
ircl_prn.0.80   all     0.0000
ircl_prn.0.90   all     0.0000
ircl_prn.1.00   all     0.0000
P5              all     0.8000
P10             all     0.8000
P15             all     0.8000
P20             all     0.6500
P30             all     0.4667
P100            all     0.2000
P200            all     0.1000
P500            all     0.0400
P1000           all     0.0200
```

-- Grade: --

```
100.00%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.0], ["6", 0.0], ["7", 0
```

---- Test HW4-Train-6 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-6.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-6.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-6.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-6.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-6.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

Elapsed: 10 seconds

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 314 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=16.902000
Iter 1: .*(NumConst=1, SV=1, CEps=16902.0000, QPEps=0.0009)
Iter 2: .*(NumConst=2, SV=2, CEps=9582.7029, QPEps=0.0007)
Iter 3: .*(NumConst=3, SV=3, CEps=6771.7006, QPEps=0.0010)
Iter 4: .*(NumConst=4, SV=2, CEps=1861.1925, QPEps=0.0485)
Iter 5: .*(NumConst=5, SV=3, CEps=1512.1045, QPEps=32.1243)
Iter 6: .*(NumConst=6, SV=2, CEps=618.2160, QPEps=0.0000)
Iter 7: .*(NumConst=7, SV=3, CEps=178.0915, QPEps=0.0000)
Iter 8: .*(NumConst=8, SV=4, CEps=121.8694, QPEps=3.7885)
Iter 9: .*(NumConst=9, SV=5, CEps=50.5703, QPEps=0.4883)
Iter 10: .*(NumConst=10, SV=5, CEps=38.8829, QPEps=11.9965)
Iter 11: .*(NumConst=11, SV=5, CEps=23.5791, QPEps=6.1764)
Iter 12: .(NumConst=11, SV=5, CEps=7.6800, QPEps=6.1764)
Final epsilon on KKT-Conditions: 7.67996
Upper bound on duality gap: 0.00780
Dual objective value: dval=9.60162
Primal objective value: pval=9.60942
Total number of constraints in final working set: 11 (of 11)
Number of iterations: 12
Number of calls to 'find_most_violated_constraint': 12
Number of SV: 5
Norm of weight vector: |w|=1.59614
Value of slack variable (on working set): xi=8327.91179
Value of slack variable (global): xi=8335.59175
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=8255.40384
Runtime in cpu-seconds: 0.01
Compacting linear model...done
Writing learned model...done
Memory used:  761 MB
Query 71:living in india
    --> #sum( #SCORE( living.body ) #SCORE( india.body ) )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:  11603.644 ms
```

-- trec_eval output: --

```
num_q                 all     1
num_ret               all     100
num_rel               all     91
num_rel_ret           all     10
map                   all     0.0227
gm_ap                 all     0.0227
R-prec                all     0.1099
bpref                 all     0.0862
recip_rank            all     0.2500
ircl_prn.0.00         all     0.3333
ircl_prn.0.10         all     0.1408
ircl_prn.0.20         all     0.0000
ircl_prn.0.30         all     0.0000
ircl_prn.0.40         all     0.0000
ircl_prn.0.50         all     0.0000
ircl_prn.0.60         all     0.0000
ircl_prn.0.70         all     0.0000
ircl_prn.0.80         all     0.0000
ircl_prn.0.90         all     0.0000
ircl_prn.1.00         all     0.0000
P5                    all     0.2000
P10                   all     0.3000
P15                   all     0.2000
P20                   all     0.2000
P30                   all     0.1667
P100                  all     0.1000
P200                  all     0.0500
P500                  all     0.0200
P1000                 all     0.0100
```

-- Grade: --

```
 98.18%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.0], ["6", 0.14223670713
```

---- Test HW4-Train-7 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-7.qry
```

```
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-7.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-7.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-7.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-7.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 278 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=4.453000
Iter 1: .*(NumConst=1, SV=1, CEps=4453.0000, QPEps=0.0000)
Iter 2: .*(NumConst=2, SV=2, CEps=1673.5914, QPEps=0.0000)
Iter 3: .*(NumConst=3, SV=3, CEps=440.6556, QPEps=0.0000)
Iter 4: .*(NumConst=4, SV=3, CEps=237.9213, QPEps=0.0000)
Iter 5: .*(NumConst=5, SV=3, CEps=116.2344, QPEps=0.0000)
Iter 6: .*(NumConst=6, SV=3, CEps=80.7476, QPEps=24.3173)
Iter 7: .*(NumConst=7, SV=3, CEps=38.7805, QPEps=16.5453)
Iter 8: .*(NumConst=8, SV=3, CEps=19.3532, QPEps=8.7843)
Iter 9: .*(NumConst=9, SV=3, CEps=14.4768, QPEps=6.7556)
Iter 10: .*(NumConst=10, SV=3, CEps=7.8416, QPEps=2.3306)
Iter 11: .(NumConst=10, SV=3, CEps=2.4309, QPEps=2.3306)
Final epsilon on KKT-Conditions: 2.43086
Upper bound on duality gap: 0.00147
Dual objective value: dval=2.40426
Primal objective value: pval=2.40573
Total number of constraints in final working set: 10 (of 10)
Number of iterations: 11
Number of calls to 'find_most_violated_constraint': 11
Number of SV: 3
Norm of weight vector: |w|=1.13601
Value of slack variable (on working set): xi=1760.36642
Value of slack variable (global): xi=1760.46664
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=2690.52374
Runtime in cpu-seconds: 0.01
Compacting linear model...done
Writing learned model...done
Memory used:  294 MB
Query 102:fickle creek farm
    --> #sum( #SCORE( fickle.body ) #SCORE( creek.body ) #SCORE( farm.body ) )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:   6588.150 ms
```

-- trec_eval output: --

```
num_q          all    1
num_ret        all    100
num_rel        all    22
num_rel_ret    all    1
map            all    0.0018
gm_ap          all    0.0018
R-prec         all    0.0000
bpref          all    0.0000
recip_rank     all    0.0400
ircl_prn.0.00  all    0.0400
ircl_prn.0.10  all    0.0000
ircl_prn.0.20  all    0.0000
ircl_prn.0.30  all    0.0000
ircl_prn.0.40  all    0.0000
ircl_prn.0.50  all    0.0000
ircl_prn.0.60  all    0.0000
ircl_prn.0.70  all    0.0000
ircl_prn.0.80  all    0.0000
ircl_prn.0.90  all    0.0000
ircl_prn.1.00  all    0.0000
P5             all    0.0000
P10            all    0.0000
P15            all    0.0000
P20            all    0.0000
P30            all    0.0333
P100           all    0.0100
P200           all    0.0050
P500           all    0.0020
P1000          all    0.0010
```

-- Grade: --

100.00%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.0], ["6", 0.0], ["7", 0

---- Test HW4-Train-8 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-8.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-8.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-8.qrel
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-8.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankParamC=0.001
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-8.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
```

Elapsed: 10 seconds

-- Your program output --

```
Reading training examples...done
Training set properties: 18 features, 1 rankings, 251 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=11.415000
Iter 1: .*(NumConst=1, SV=1, CEps=11415.0000, QPEps=0.0004)
Iter 2: .*(NumConst=2, SV=2, CEps=10333.3267, QPEps=0.0002)
Iter 3: .*(NumConst=3, SV=2, CEps=1454.4289, QPEps=0.0002)
Iter 4: .*(NumConst=4, SV=3, CEps=823.8122, QPEps=0.0206)
Iter 5: .*(NumConst=5, SV=3, CEps=330.5066, QPEps=15.9908)
Iter 6: .*(NumConst=6, SV=3, CEps=210.6741, QPEps=49.5872)
Iter 7: .*(NumConst=7, SV=3, CEps=78.0695, QPEps=35.1321)
Iter 8: .*(NumConst=8, SV=3, CEps=56.0937, QPEps=0.0000)
Iter 9: .*(NumConst=9, SV=3, CEps=15.7113, QPEps=0.0000)
Iter 10: .(NumConst=9, SV=3, CEps=4.1057, QPEps=0.0000)
Final epsilon on KKT-Conditions: 4.10568
Upper bound on duality gap: 0.00411
Dual objective value: dval=8.50899
Primal objective value: pval=8.51310
Total number of constraints in final working set: 9 (of 9)
Number of iterations: 10
Number of calls to 'find_most_violated_constraint': 10
Number of SV: 3
Norm of weight vector: |w|=1.34136
Value of slack variable (on working set): xi=7609.37399
Value of slack variable (global): xi=7613.47965
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=3770.12884
Runtime in cpu-seconds: 0.01
Compacting linear model...done
Writing learned model...done
Memory used:  312 MB
Query 149:uplift at yellowstone national park
    --> #sum( #SCORE( uplift.body ) #SCORE( yellowstone.body ) #SCORE( national.body ) #SCORE( park.body ) )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (1 correct, 0 incorrect, 1 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:  12051.978 ms
```

-- trec_eval output: --

num_q	all	1
num_ret	all	100
num_rel	all	62
num_rel_ret	all	26
map	all	0.1951
gm_ap	all	0.1951
R-prec	all	0.3871
bpref	all	0.2927
recip_rank	all	0.3333
ircl_prn.0.00	all	0.7000
ircl_prn.0.10	all	0.7000
ircl_prn.0.20	all	0.4423
ircl_prn.0.30	all	0.4423
ircl_prn.0.40	all	0.3425

```
ircl_prn.0.50    all     0.0000
ircl_prn.0.60    all     0.0000
ircl_prn.0.70    all     0.0000
ircl_prn.0.80    all     0.0000
ircl_prn.0.90    all     0.0000
ircl_prn.1.00    all     0.0000
P5               all     0.6000
P10              all     0.7000
P15              all     0.5333
P20              all     0.4500
P30              all     0.4000
P100             all     0.2600
P200             all     0.1300
P500             all     0.0520
P1000            all     0.0260
```

-- Grade: --

96.53%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.0], ["6", 0.07509335706

---- Test HW4-Train-9 ----

-- Parameter file: --

```
indexPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/index-cw09
queryFilePath=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-9.qry
trecEvalOutputPath=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-9.teIn
trecEvalOutputLength=100
retrievalAlgorithm=letor
BM25:k_1=1.2
BM25:b=0.75
BM25:k_3=0
Indri:mu=2500
Indri:lambda=0.4
letor:trainingQrelsFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-train-9.qrels
letor:trainingQueryFile=/bos/www/htdocs/classes/11-642/HW/HTS/tests/HW4-Train-train-9.qry
letor:trainingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4
letor:svmRankLearnPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_learn
letor:svmRankClassifyPath=/bos/www/htdocs/classes/11-642/HW/HTS/inputs/svm_rank_classify
letor:svmRankModelFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Train-9.M
letor:testingFeatureVectorsFile=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-
letor:testingDocumentScores=/bos/www/htdocs/classes/11-642/HW/HTS/uploads-hts-interim/HW4-ziyiy@andrew.cmu.edu-Nov02-23:51:10/outputs/HW4-Trai
letor:featureDisable=1,2,3,4,17,18
letor:svmRankParamC=0.005
```

Elapsed: 10 seconds

-- Your program output --

```
Reading training examples...done
Training set properties: 16 features, 3 rankings, 768 examples
NOTE: Adjusted stopping criterion relative to maximum loss: eps=8.522667
Iter 1: ...*(NumConst=1, SV=1, CEps=8522.6667, QPEps=0.0001)
Iter 2: ...*(NumConst=2, SV=2, CEps=10610.8990, QPEps=0.0002)
Iter 3: ...*(NumConst=3, SV=3, CEps=5473.3719, QPEps=0.0001)
Iter 4: ...*(NumConst=4, SV=3, CEps=1174.6698, QPEps=0.1319)
Iter 5: ...*(NumConst=5, SV=2, CEps=1534.1230, QPEps=0.0000)
Iter 6: ...*(NumConst=6, SV=3, CEps=265.6936, QPEps=15.4429)
Iter 7: ...*(NumConst=7, SV=3, CEps=274.0004, QPEps=30.6351)
Iter 8: ...*(NumConst=8, SV=3, CEps=102.9175, QPEps=0.3659)
Iter 9: ...*(NumConst=9, SV=3, CEps=69.4822, QPEps=31.5457)
Iter 10: ...*(NumConst=10, SV=4, CEps=45.4221, QPEps=18.4012)
Iter 11: ...*(NumConst=11, SV=5, CEps=19.6642, QPEps=3.7770)
Iter 12: ...*(NumConst=12, SV=5, CEps=19.4775, QPEps=8.2848)
Iter 13: ...*(NumConst=13, SV=5, CEps=14.3416, QPEps=5.4485)
Iter 14: ...(NumConst=13, SV=5, CEps=5.9354, QPEps=5.4485)
Final epsilon on KKT-Conditions: 5.93539
Upper bound on duality gap: 0.03100
Dual objective value: dval=33.67957
Primal objective value: pval=33.71057
Total number of constraints in final working set: 13 (of 13)
Number of iterations: 14
Number of calls to 'find_most_violated_constraint': 42
Number of SV: 5
Norm of weight vector: |w|=1.80149
Value of slack variable (on working set): xi=6415.23872
Value of slack variable (global): xi=6417.57731
Norm of longest difference vector: ||Psi(x,y)-Psi(x,ybar)||=2125.22581
Runtime in cpu-seconds: 0.02
Compacting linear model...done
Writing learned model...done
Memory used:  439 MB
Query 74:kiwi
    --> #SCORE( kiwi.body )
Memory used:  601 MB
Query 125:butter and margarine
    --> #sum( #SCORE( butter.body ) #SCORE( margarine.body ) )
Memory used:  34 MB
Query 145:vines for shade
    --> #sum( #SCORE( vine.body ) #SCORE( shade.body ) )
Reading model...done.
Reading test examples...done.
Classifying test examples...done
Runtime (without IO) in cpu-seconds: 0.00
```

```
Average loss on test set: 0.0000
Zero/one-error on test set: 0.00% (3 correct, 0 incorrect, 3 total)
NOTE: The loss reported above is the fraction of swapped pairs averaged over
      all rankings. The zero/one-error is fraction of perfectly correct
      rankings!
Total Num Swappedpairs  :        0
Avg Swappedpairs Percent:     0.00
Time:   9107.074 ms
```

-- trec_eval output: --

```
num_q             all     3
num_ret           all     300
num_rel           all     190
num_rel_ret       all     51
map               all     0.0683
gm_ap             all     0.0502
R-prec            all     0.1909
bpref             all     0.1275
recip_rank        all     0.4325
ircl_prn.0.00     all     0.4619
ircl_prn.0.10     all     0.2824
ircl_prn.0.20     all     0.2100
ircl_prn.0.30     all     0.0725
ircl_prn.0.40     all     0.0000
ircl_prn.0.50     all     0.0000
ircl_prn.0.60     all     0.0000
ircl_prn.0.70     all     0.0000
ircl_prn.0.80     all     0.0000
ircl_prn.0.90     all     0.0000
ircl_prn.1.00     all     0.0000
P5                all     0.1333
P10               all     0.1667
P15               all     0.1778
P20               all     0.1833
P30               all     0.1667
P100              all     0.1700
P200              all     0.0850
P500              all     0.0340
P1000             all     0.0170
```

-- Grade: --

 95.64%
Per feature dimension differences ([feature id,L1-distance]): [["1", 0.0], ["2", 0.0], ["3", 0.0], ["4", 0.0], ["5", 0.06090594953236505], ["6

---- End of your system's output ----

---- Done ----