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Part 2:

1. 0 qid:testData 1:1 2:0 3:1 4:0 # D1
2. 1 qid:testData 1:0.5 2:1 3:0.5 4:0 # D2

In order to calculate map on the small data set...
I used the command:
java -jar RankLib.jar -load model.txt -rank
src/main/java/ranking/TestRankLibFeatureVectorFile.txt -score score.txt

This produced a file score.txt which had every document and corresponding score. So I sorted by score and got the ranking. I then computed map and got **.7777777**

```
testData        0       0.11650012583740761
testData        1       0.01352860913962379 6
testData        2       0.09725282353929646
testData        3       0.12415037768453607
testData        4       0.16470910354256046
testData        5       0.09320010205871582
testData        6       0.1417768167536474
testData        7       0.1255330641950930 5
testData        8       0.15378017221605284
testData        9       0.0136611639545673 37
testData        10      0.0092895915868180 49
testData        11      0.0065573585516239 33
```

Part 3:
We did not get a proper solution for TF IDF on program 3. I asked on piazza but the request was never granted. I decided to use the built in TFIDF in lucene for the comparison.

We successfully were able to create the runLib file for part 3 and it can be found in the rankings directory.

ISSUES: When I use the -metric2T MAP

Option on RankLib I get zeros for training.
I looked and tried for a long time on how to produce the ranking file from the model. But I could not find anything on it. Without the ranking model I am unable to calculate MAP. The only thing I found was the -score option which displayed the score for each doc and query.

THESE ARE THE SCORES FOR EACH DOC.

Brush%20rabbit 0   0.17761215559425036
Brush%20rabbit 1   0.12333236089042035
Brush%20rabbit 2   0.21928211506356748
Brush%20rabbit 3   0.04927515574550059
Brush%20rabbit 4   0.05551064251437031
Brush%20rabbit 5   0.17114543028629767
Brush%20rabbit 6   0.07031052640931527
Brush%20rabbit 7   0.08623923769890499
Brush%20rabbit 8   0.03515526320465764
Brush%20rabbit 9   0.031639737669973224
Brush%20rabbit 10   0.038670788739342044

Overall we got all the coding done, but our understanding of RankLib and confusing documentation prevented us from figuring out how to get the ranking file.