The score function in our notebook takes a query string as well as the matrix of tf-idf values for each term in each document and scores them by counting up the sum of tf-idf values for all terms in the query across their documents. It gives back the top ten documents according to the tf/idf values, ranked descendingly. The eval function picks out queries which correspond to at least 15 documents according to the cranqrel file. It then intersects those ID’s with the ID’s from the cran.qry file and randomly picks 20 numbers from the intersection. These are the random 20 queries we execute. So for each run, we execute 20 different queries, however at least 15 documents should match each query.