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CMPSCI446 hw5
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Experience:

HashTable is one of the greatest invention in data structure that saves lots of time searching.

Inverted Index is great for BM25 scores.

My time spent on it is half for HashTable (I wrote own hashtable) and half for the ranking algorithm, my hashtable supports non duplicate insert and findFi() function which makes it easier for getting BM score.

```
struct HashTableVoidEntry {
    const char * _key;
    int docid;
    int tf;
    HashTableVoidEntry * _next;
};

class HashTableVoid {
public:
    //enum { TableSize = 20000};
    HashTableVoidEntry ** _buckets;
    int hash(const char * key);
public:
    HashTableVoid();
    int insertItem( const char * key, int docid);
    int findFi( const char * key, int docid);
};
```

For BM score getting, since the R is ignored it is much more convenient. I just did the one in slide and simplified since word in query only appears at most once.

Output:

```
//Query 1
//portabl oper system
query_id 1 Q0 doc_id 3127 rank 1 BM25_score 13.154224 system_name
query_id 1 Q0 doc_id 1170 rank 2 BM25_score 12.014657 system_name
query_id 1 Q0 doc_id 1415 rank 3 BM25_score 11.290735 system_name
query_id 1 Q0 doc_id 2246 rank 4 BM25_score 9.820377 system_name
query_id 1 Q0 doc_id 2795 rank 5 BM25_score 8.984891 system_name
query_id 1 Q0 doc_id 1324 rank 6 BM25_score 8.766745 system_name
query_id 1 Q0 doc_id 2739 rank 7 BM25_score 8.603501 system_name
```

query_id 1 Q0 doc_id 1527 rank 8 BM25_score 8.430980 system_name
query_id 1 Q0 doc_id 3196 rank 9 BM25_score 8.307446 system_name
query_id 1 Q0 doc_id 2274 rank 10 BM25_score 8.179324 system_name
query_id 1 Q0 doc_id 2113 rank 11 BM25_score 8.024357 system_name
query_id 1 Q0 doc_id 982 rank 12 BM25_score 7.921944 system_name
query_id 1 Q0 doc_id 1939 rank 13 BM25_score 7.668305 system_name
query_id 1 Q0 doc_id 1855 rank 14 BM25_score 7.634676 system_name
query_id 1 Q0 doc_id 2099 rank 15 BM25_score 7.570347 system_name
query_id 1 Q0 doc_id 1930 rank 16 BM25_score 7.455905 system_name
query_id 1 Q0 doc_id 1911 rank 17 BM25_score 7.239304 system_name
query_id 1 Q0 doc_id 1885 rank 18 BM25_score 6.909466 system_name
query_id 1 Q0 doc_id 1074 rank 19 BM25_score 6.848792 system_name
query_id 1 Q0 doc_id 1582 rank 20 BM25_score 6.745162 system_name
query_id 1 Q0 doc_id 2600 rank 21 BM25_score 6.508797 system_name
query_id 1 Q0 doc_id 2615 rank 22 BM25_score 6.452271 system_name
query_id 1 Q0 doc_id 1768 rank 23 BM25_score 6.358197 system_name
query_id 1 Q0 doc_id 2054 rank 24 BM25_score 6.111183 system_name
query_id 1 Q0 doc_id 2593 rank 25 BM25_score 6.073800 system_name
query_id 1 Q0 doc_id 1591 rank 26 BM25_score 6.027525 system_name
query_id 1 Q0 doc_id 1680 rank 27 BM25_score 6.020065 system_name
query_id 1 Q0 doc_id 3068 rank 28 BM25_score 5.872802 system_name
query_id 1 Q0 doc_id 3194 rank 29 BM25_score 5.828039 system_name
query_id 1 Q0 doc_id 1487 rank 30 BM25_score 5.827545 system_name
query_id 1 Q0 doc_id 1236 rank 31 BM25_score 5.749638 system_name
query_id 1 Q0 doc_id 2740 rank 32 BM25_score 5.733688 system_name
query_id 1 Q0 doc_id 1033 rank 33 BM25_score 5.700525 system_name
query_id 1 Q0 doc_id 1534 rank 34 BM25_score 5.599770 system_name
query_id 1 Q0 doc_id 1750 rank 35 BM25_score 5.585480 system_name
query_id 1 Q0 doc_id 2424 rank 36 BM25_score 5.557508 system_name
query_id 1 Q0 doc_id 3094 rank 37 BM25_score 5.484194 system_name
query_id 1 Q0 doc_id 2379 rank 38 BM25_score 5.466785 system_name
query_id 1 Q0 doc_id 2357 rank 39 BM25_score 5.426161 system_name
query_id 1 Q0 doc_id 2920 rank 40 BM25_score 5.392058 system_name
query_id 1 Q0 doc_id 2319 rank 41 BM25_score 5.382886 system_name
query_id 1 Q0 doc_id 2064 rank 42 BM25_score 5.365968 system_name
query_id 1 Q0 doc_id 585 rank 43 BM25_score 5.362688 system_name
query_id 1 Q0 doc_id 1519 rank 44 BM25_score 5.349035 system_name
query_id 1 Q0 doc_id 1012 rank 45 BM25_score 5.341325 system_name
query_id 1 Q0 doc_id 2629 rank 46 BM25_score 5.324899 system_name
query_id 1 Q0 doc_id 1472 rank 47 BM25_score 5.270352 system_name
query_id 1 Q0 doc_id 2153 rank 48 BM25_score 5.262328 system_name
query_id 1 Q0 doc_id 2541 rank 49 BM25_score 5.260609 system_name
query_id 1 Q0 doc_id 322 rank 50 BM25_score 5.232785 system_name
query_id 1 Q0 doc_id 972 rank 51 BM25_score 5.226476 system_name

query_id 1 Q0 doc_id 2798 rank 52 BM25_score 5.224167 system_name
query_id 1 Q0 doc_id 2092 rank 53 BM25_score 5.212125 system_name
query_id 1 Q0 doc_id 2735 rank 54 BM25_score 5.184894 system_name
query_id 1 Q0 doc_id 3025 rank 55 BM25_score 5.161374 system_name
query_id 1 Q0 doc_id 2372 rank 56 BM25_score 5.151081 system_name
query_id 1 Q0 doc_id 1462 rank 57 BM25_score 5.141877 system_name
query_id 1 Q0 doc_id 2878 rank 58 BM25_score 5.140806 system_name
query_id 1 Q0 doc_id 1264 rank 59 BM25_score 5.110389 system_name
query_id 1 Q0 doc_id 1247 rank 60 BM25_score 5.103876 system_name
query_id 1 Q0 doc_id 1108 rank 61 BM25_score 5.077177 system_name
query_id 1 Q0 doc_id 2378 rank 62 BM25_score 5.054163 system_name
query_id 1 Q0 doc_id 1461 rank 63 BM25_score 5.049029 system_name
query_id 1 Q0 doc_id 2632 rank 64 BM25_score 5.019212 system_name
query_id 1 Q0 doc_id 2482 rank 65 BM25_score 5.016488 system_name
query_id 1 Q0 doc_id 1989 rank 66 BM25_score 5.009051 system_name
query_id 1 Q0 doc_id 2219 rank 67 BM25_score 5.004355 system_name
query_id 1 Q0 doc_id 1766 rank 68 BM25_score 5.004082 system_name
query_id 1 Q0 doc_id 2597 rank 69 BM25_score 4.981703 system_name
query_id 1 Q0 doc_id 329 rank 70 BM25_score 4.981403 system_name
query_id 1 Q0 doc_id 2399 rank 71 BM25_score 4.950922 system_name
query_id 1 Q0 doc_id 2868 rank 72 BM25_score 4.950335 system_name
query_id 1 Q0 doc_id 1652 rank 73 BM25_score 4.930490 system_name
query_id 1 Q0 doc_id 1755 rank 74 BM25_score 4.927893 system_name
query_id 1 Q0 doc_id 2950 rank 75 BM25_score 4.926885 system_name
query_id 1 Q0 doc_id 2065 rank 76 BM25_score 4.924819 system_name
query_id 1 Q0 doc_id 1752 rank 77 BM25_score 4.921463 system_name
query_id 1 Q0 doc_id 1902 rank 78 BM25_score 4.915608 system_name
query_id 1 Q0 doc_id 1168 rank 79 BM25_score 4.906014 system_name
query_id 1 Q0 doc_id 1912 rank 80 BM25_score 4.873558 system_name
query_id 1 Q0 doc_id 1657 rank 81 BM25_score 4.865592 system_name
query_id 1 Q0 doc_id 2320 rank 82 BM25_score 4.863508 system_name
query_id 1 Q0 doc_id 3089 rank 83 BM25_score 4.835361 system_name
query_id 1 Q0 doc_id 2697 rank 84 BM25_score 4.819720 system_name
query_id 1 Q0 doc_id 2622 rank 85 BM25_score 4.818848 system_name
query_id 1 Q0 doc_id 1071 rank 86 BM25_score 4.815531 system_name
query_id 1 Q0 doc_id 1853 rank 87 BM25_score 4.811603 system_name
query_id 1 Q0 doc_id 1878 rank 88 BM25_score 4.802990 system_name
query_id 1 Q0 doc_id 1334 rank 89 BM25_score 4.795838 system_name
query_id 1 Q0 doc_id 3137 rank 90 BM25_score 4.795361 system_name
query_id 1 Q0 doc_id 1350 rank 91 BM25_score 4.790474 system_name
query_id 1 Q0 doc_id 2796 rank 92 BM25_score 4.784409 system_name
query_id 1 Q0 doc_id 252 rank 93 BM25_score 4.782493 system_name
query_id 1 Q0 doc_id 1034 rank 94 BM25_score 4.782373 system_name
query_id 1 Q0 doc_id 1747 rank 95 BM25_score 4.773780 system_name

query_id 1 Q0 doc_id 2703 rank 96 BM25_score 4.768270 system_name
query_id 1 Q0 doc_id 3087 rank 97 BM25_score 4.757589 system_name
query_id 1 Q0 doc_id 1163 rank 98 BM25_score 4.753823 system_name
query_id 1 Q0 doc_id 1938 rank 99 BM25_score 4.753050 system_name
query_id 1 Q0 doc_id 1951 rank 100 BM25_score 4.739844 system_name

//Query 2

//code optim for space effici

query_id 2 Q0 doc_id 2748 rank 1 BM25_score 13.119007 system_name
query_id 2 Q0 doc_id 2491 rank 2 BM25_score 12.398265 system_name
query_id 2 Q0 doc_id 2033 rank 3 BM25_score 11.701756 system_name
query_id 2 Q0 doc_id 2701 rank 4 BM25_score 11.178633 system_name
query_id 2 Q0 doc_id 2530 rank 5 BM25_score 10.859291 system_name
query_id 2 Q0 doc_id 2559 rank 6 BM25_score 10.822928 system_name
query_id 2 Q0 doc_id 1947 rank 7 BM25_score 10.798839 system_name
query_id 2 Q0 doc_id 1886 rank 8 BM25_score 10.634766 system_name
query_id 2 Q0 doc_id 3005 rank 9 BM25_score 10.618326 system_name
query_id 2 Q0 doc_id 2897 rank 10 BM25_score 10.395610 system_name
query_id 2 Q0 doc_id 2680 rank 11 BM25_score 10.218328 system_name
query_id 2 Q0 doc_id 2716 rank 12 BM25_score 10.015381 system_name
query_id 2 Q0 doc_id 2801 rank 13 BM25_score 9.989742 system_name
query_id 2 Q0 doc_id 1807 rank 14 BM25_score 9.657499 system_name
query_id 2 Q0 doc_id 2495 rank 15 BM25_score 9.487220 system_name
query_id 2 Q0 doc_id 1795 rank 16 BM25_score 9.395294 system_name
query_id 2 Q0 doc_id 2944 rank 17 BM25_score 9.387975 system_name
query_id 2 Q0 doc_id 3033 rank 18 BM25_score 9.386192 system_name
query_id 2 Q0 doc_id 2856 rank 19 BM25_score 9.277089 system_name
query_id 2 Q0 doc_id 3103 rank 20 BM25_score 9.219550 system_name
query_id 2 Q0 doc_id 3129 rank 21 BM25_score 9.209904 system_name
query_id 2 Q0 doc_id 2537 rank 22 BM25_score 8.926276 system_name
query_id 2 Q0 doc_id 2651 rank 23 BM25_score 8.801431 system_name
query_id 2 Q0 doc_id 1195 rank 24 BM25_score 8.543998 system_name
query_id 2 Q0 doc_id 3080 rank 25 BM25_score 8.530074 system_name
query_id 2 Q0 doc_id 2598 rank 26 BM25_score 8.424122 system_name
query_id 2 Q0 doc_id 2648 rank 27 BM25_score 8.387468 system_name
query_id 2 Q0 doc_id 2834 rank 28 BM25_score 8.324715 system_name
query_id 2 Q0 doc_id 679 rank 29 BM25_score 8.240774 system_name
query_id 2 Q0 doc_id 2863 rank 30 BM25_score 8.205748 system_name
query_id 2 Q0 doc_id 2490 rank 31 BM25_score 8.202684 system_name
query_id 2 Q0 doc_id 2816 rank 32 BM25_score 8.171040 system_name
query_id 2 Q0 doc_id 3106 rank 33 BM25_score 8.143534 system_name
query_id 2 Q0 doc_id 3099 rank 34 BM25_score 8.082008 system_name
query_id 2 Q0 doc_id 3171 rank 35 BM25_score 8.040723 system_name
query_id 2 Q0 doc_id 1235 rank 36 BM25_score 8.007225 system_name

query_id 2 Q0 doc_id 1389 rank 37 BM25_score 7.982240 system_name
query_id 2 Q0 doc_id 1542 rank 38 BM25_score 7.973049 system_name
query_id 2 Q0 doc_id 3113 rank 39 BM25_score 7.938050 system_name
query_id 2 Q0 doc_id 2586 rank 40 BM25_score 7.927580 system_name
query_id 2 Q0 doc_id 2819 rank 41 BM25_score 7.880109 system_name
query_id 2 Q0 doc_id 2722 rank 42 BM25_score 7.871905 system_name
query_id 2 Q0 doc_id 2855 rank 43 BM25_score 7.798629 system_name
query_id 2 Q0 doc_id 3057 rank 44 BM25_score 7.797745 system_name
query_id 2 Q0 doc_id 867 rank 45 BM25_score 7.786162 system_name
query_id 2 Q0 doc_id 2885 rank 46 BM25_score 7.770924 system_name
query_id 2 Q0 doc_id 2904 rank 47 BM25_score 7.756635 system_name
query_id 2 Q0 doc_id 1694 rank 48 BM25_score 7.750978 system_name
query_id 2 Q0 doc_id 2623 rank 49 BM25_score 7.715846 system_name
query_id 2 Q0 doc_id 1901 rank 50 BM25_score 7.662870 system_name
query_id 2 Q0 doc_id 2253 rank 51 BM25_score 7.596556 system_name
query_id 2 Q0 doc_id 2929 rank 52 BM25_score 7.526406 system_name
query_id 2 Q0 doc_id 940 rank 53 BM25_score 7.513215 system_name
query_id 2 Q0 doc_id 164 rank 54 BM25_score 7.366916 system_name
query_id 2 Q0 doc_id 1066 rank 55 BM25_score 7.149005 system_name
query_id 2 Q0 doc_id 3072 rank 56 BM25_score 7.130055 system_name
query_id 2 Q0 doc_id 2787 rank 57 BM25_score 6.972239 system_name
query_id 2 Q0 doc_id 759 rank 58 BM25_score 6.949231 system_name
query_id 2 Q0 doc_id 124 rank 59 BM25_score 6.922710 system_name
query_id 2 Q0 doc_id 2858 rank 60 BM25_score 6.866144 system_name
query_id 2 Q0 doc_id 1651 rank 61 BM25_score 6.858859 system_name
query_id 2 Q0 doc_id 2437 rank 62 BM25_score 6.802810 system_name
query_id 2 Q0 doc_id 1564 rank 63 BM25_score 6.791589 system_name
query_id 2 Q0 doc_id 2423 rank 64 BM25_score 6.774312 system_name
query_id 2 Q0 doc_id 2753 rank 65 BM25_score 6.769044 system_name
query_id 2 Q0 doc_id 3074 rank 66 BM25_score 6.723006 system_name
query_id 2 Q0 doc_id 1552 rank 67 BM25_score 6.669783 system_name
query_id 2 Q0 doc_id 405 rank 68 BM25_score 6.633238 system_name
query_id 2 Q0 doc_id 1223 rank 69 BM25_score 6.600254 system_name
query_id 2 Q0 doc_id 2276 rank 70 BM25_score 6.596179 system_name
query_id 2 Q0 doc_id 3110 rank 71 BM25_score 6.494114 system_name
query_id 2 Q0 doc_id 2711 rank 72 BM25_score 6.491844 system_name
query_id 2 Q0 doc_id 1612 rank 73 BM25_score 6.482882 system_name
query_id 2 Q0 doc_id 2081 rank 74 BM25_score 6.399023 system_name
query_id 2 Q0 doc_id 3054 rank 75 BM25_score 6.376712 system_name
query_id 2 Q0 doc_id 2185 rank 76 BM25_score 6.358939 system_name
query_id 2 Q0 doc_id 1677 rank 77 BM25_score 6.345057 system_name
query_id 2 Q0 doc_id 2314 rank 78 BM25_score 6.318010 system_name
query_id 2 Q0 doc_id 1088 rank 79 BM25_score 6.310052 system_name
query_id 2 Q0 doc_id 2078 rank 80 BM25_score 6.300751 system_name

query_id 2 Q0 doc_id 2812 rank 81 BM25_score 6.268664 system_name
query_id 2 Q0 doc_id 2389 rank 82 BM25_score 6.186466 system_name
query_id 2 Q0 doc_id 2857 rank 83 BM25_score 6.119489 system_name
query_id 2 Q0 doc_id 3114 rank 84 BM25_score 6.115454 system_name
query_id 2 Q0 doc_id 3064 rank 85 BM25_score 6.112003 system_name
query_id 2 Q0 doc_id 3001 rank 86 BM25_score 6.074972 system_name
query_id 2 Q0 doc_id 2500 rank 87 BM25_score 6.066176 system_name
query_id 2 Q0 doc_id 2745 rank 88 BM25_score 6.053951 system_name
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query_id 2 Q0 doc_id 1134 rank 90 BM25_score 6.027253 system_name
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query_id 2 Q0 doc_id 2720 rank 92 BM25_score 5.862725 system_name
query_id 2 Q0 doc_id 1928 rank 93 BM25_score 5.860111 system_name
query_id 2 Q0 doc_id 1408 rank 94 BM25_score 5.767914 system_name
query_id 2 Q0 doc_id 1738 rank 95 BM25_score 5.755005 system_name
query_id 2 Q0 doc_id 3027 rank 96 BM25_score 5.742996 system_name
query_id 2 Q0 doc_id 2524 rank 97 BM25_score 5.732645 system_name
query_id 2 Q0 doc_id 2903 rank 98 BM25_score 5.727878 system_name
query_id 2 Q0 doc_id 2625 rank 99 BM25_score 5.725275 system_name
query_id 2 Q0 doc_id 2035 rank 100 BM25_score 5.724157 system_name

//Query 3

//parallel algorithm

query_id 3 Q0 doc_id 2714 rank 1 BM25_score 7.406644 system_name
query_id 3 Q0 doc_id 2973 rank 2 BM25_score 7.179773 system_name
query_id 3 Q0 doc_id 2433 rank 3 BM25_score 7.089023 system_name
query_id 3 Q0 doc_id 950 rank 4 BM25_score 7.083961 system_name
query_id 3 Q0 doc_id 2785 rank 5 BM25_score 6.953148 system_name
query_id 3 Q0 doc_id 2266 rank 6 BM25_score 6.893309 system_name
query_id 3 Q0 doc_id 2664 rank 7 BM25_score 6.779595 system_name
query_id 3 Q0 doc_id 2429 rank 8 BM25_score 6.755157 system_name
query_id 3 Q0 doc_id 1262 rank 9 BM25_score 6.681851 system_name
query_id 3 Q0 doc_id 1811 rank 10 BM25_score 6.678413 system_name
query_id 3 Q0 doc_id 3156 rank 11 BM25_score 6.643013 system_name
query_id 3 Q0 doc_id 2700 rank 12 BM25_score 6.586886 system_name
query_id 3 Q0 doc_id 2685 rank 13 BM25_score 6.492055 system_name
query_id 3 Q0 doc_id 3075 rank 14 BM25_score 6.482773 system_name
query_id 3 Q0 doc_id 2401 rank 15 BM25_score 6.453612 system_name
query_id 3 Q0 doc_id 2851 rank 16 BM25_score 6.243468 system_name
query_id 3 Q0 doc_id 1158 rank 17 BM25_score 6.236062 system_name
query_id 3 Q0 doc_id 1828 rank 18 BM25_score 6.144769 system_name
query_id 3 Q0 doc_id 2289 rank 19 BM25_score 6.120787 system_name
query_id 3 Q0 doc_id 2195 rank 20 BM25_score 5.993499 system_name

query_id 3 Q0 doc_id 2557 rank 21 BM25_score 5.955463 system_name
query_id 3 Q0 doc_id 3059 rank 22 BM25_score 5.874853 system_name
query_id 3 Q0 doc_id 1601 rank 23 BM25_score 5.848193 system_name
query_id 3 Q0 doc_id 2896 rank 24 BM25_score 5.825623 system_name
query_id 3 Q0 doc_id 2570 rank 25 BM25_score 5.776015 system_name
query_id 3 Q0 doc_id 2342 rank 26 BM25_score 5.768422 system_name
query_id 3 Q0 doc_id 141 rank 27 BM25_score 5.644311 system_name
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query_id 3 Q0 doc_id 2895 rank 29 BM25_score 5.612980 system_name
query_id 3 Q0 doc_id 382 rank 30 BM25_score 5.610149 system_name
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query_id 3 Q0 doc_id 2660 rank 35 BM25_score 5.397795 system_name
query_id 3 Q0 doc_id 2865 rank 36 BM25_score 5.323734 system_name
query_id 3 Q0 doc_id 1367 rank 37 BM25_score 5.305114 system_name
query_id 3 Q0 doc_id 1846 rank 38 BM25_score 5.293332 system_name
query_id 3 Q0 doc_id 1747 rank 39 BM25_score 5.218825 system_name
query_id 3 Q0 doc_id 1569 rank 40 BM25_score 5.128983 system_name
query_id 3 Q0 doc_id 1468 rank 41 BM25_score 5.066955 system_name
query_id 3 Q0 doc_id 2182 rank 42 BM25_score 4.847351 system_name
query_id 3 Q0 doc_id 3194 rank 43 BM25_score 4.847351 system_name
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query_id 3 Q0 doc_id 2311 rank 45 BM25_score 4.735902 system_name
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query_id 3 Q0 doc_id 2080 rank 48 BM25_score 4.642990 system_name
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query_id 3 Q0 doc_id 2740 rank 56 BM25_score 4.458734 system_name
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query_id 3 Q0 doc_id 2515 rank 58 BM25_score 4.323406 system_name
query_id 3 Q0 doc_id 1536 rank 59 BM25_score 4.228227 system_name
query_id 3 Q0 doc_id 320 rank 60 BM25_score 4.152460 system_name
query_id 3 Q0 doc_id 1959 rank 61 BM25_score 4.120654 system_name
query_id 3 Q0 doc_id 2776 rank 62 BM25_score 4.106469 system_name
query_id 3 Q0 doc_id 1854 rank 63 BM25_score 4.103439 system_name
query_id 3 Q0 doc_id 3073 rank 64 BM25_score 4.103439 system_name

query_id 3 Q0 doc_id 3120 rank 65 BM25_score 4.034966 system_name
query_id 3 Q0 doc_id 1325 rank 66 BM25_score 4.026203 system_name
query_id 3 Q0 doc_id 1957 rank 67 BM25_score 3.928416 system_name
query_id 3 Q0 doc_id 1603 rank 68 BM25_score 3.907397 system_name
query_id 3 Q0 doc_id 2898 rank 69 BM25_score 3.882844 system_name
query_id 3 Q0 doc_id 1200 rank 70 BM25_score 3.811006 system_name
query_id 3 Q0 doc_id 2967 rank 71 BM25_score 3.803187 system_name
query_id 3 Q0 doc_id 1409 rank 72 BM25_score 3.764572 system_name
query_id 3 Q0 doc_id 1928 rank 73 BM25_score 3.528142 system_name
query_id 3 Q0 doc_id 2692 rank 74 BM25_score 3.492999 system_name
query_id 3 Q0 doc_id 2060 rank 75 BM25_score 3.467792 system_name
query_id 3 Q0 doc_id 2497 rank 76 BM25_score 3.290196 system_name
query_id 3 Q0 doc_id 1960 rank 77 BM25_score 3.278558 system_name
query_id 3 Q0 doc_id 2376 rank 78 BM25_score 3.215995 system_name
query_id 3 Q0 doc_id 1471 rank 79 BM25_score 2.903687 system_name
query_id 3 Q0 doc_id 1380 rank 80 BM25_score 2.441051 system_name
query_id 3 Q0 doc_id 2723 rank 81 BM25_score 2.346004 system_name
query_id 3 Q0 doc_id 2283 rank 82 BM25_score 0.646389 system_name
query_id 3 Q0 doc_id 2146 rank 83 BM25_score 0.644353 system_name
query_id 3 Q0 doc_id 2259 rank 84 BM25_score 0.643485 system_name
query_id 3 Q0 doc_id 2884 rank 85 BM25_score 0.640721 system_name
query_id 3 Q0 doc_id 2030 rank 86 BM25_score 0.640505 system_name
query_id 3 Q0 doc_id 2430 rank 87 BM25_score 0.637958 system_name
query_id 3 Q0 doc_id 2767 rank 88 BM25_score 0.634566 system_name
query_id 3 Q0 doc_id 2090 rank 89 BM25_score 0.634325 system_name
query_id 3 Q0 doc_id 2490 rank 90 BM25_score 0.633791 system_name
query_id 3 Q0 doc_id 1961 rank 91 BM25_score 0.633224 system_name
query_id 3 Q0 doc_id 1559 rank 92 BM25_score 0.631926 system_name
query_id 3 Q0 doc_id 2903 rank 93 BM25_score 0.630904 system_name
query_id 3 Q0 doc_id 2950 rank 94 BM25_score 0.630564 system_name
query_id 3 Q0 doc_id 371 rank 95 BM25_score 0.627707 system_name
query_id 3 Q0 doc_id 3151 rank 96 BM25_score 0.625930 system_name
query_id 3 Q0 doc_id 2630 rank 97 BM25_score 0.625462 system_name
query_id 3 Q0 doc_id 2031 rank 98 BM25_score 0.624171 system_name
query_id 3 Q0 doc_id 2657 rank 99 BM25_score 0.622842 system_name
query_id 3 Q0 doc_id 2263 rank 100 BM25_score 0.617907 system_name

//Query 4

//distributed computation structure and algorithm

query_id 4 Q0 doc_id 2926 rank 1 BM25_score 8.980210 system_name
query_id 4 Q0 doc_id 2406 rank 2 BM25_score 8.030120 system_name
query_id 4 Q0 doc_id 2914 rank 3 BM25_score 7.940295 system_name
query_id 4 Q0 doc_id 3135 rank 4 BM25_score 7.658372 system_name
query_id 4 Q0 doc_id 2032 rank 5 BM25_score 7.595968 system_name

query_id 4 Q0 doc_id 2949 rank 6 BM25_score 7.488205 system_name
query_id 4 Q0 doc_id 2849 rank 7 BM25_score 7.415703 system_name
query_id 4 Q0 doc_id 1726 rank 8 BM25_score 7.411638 system_name
query_id 4 Q0 doc_id 1951 rank 9 BM25_score 7.380115 system_name
query_id 4 Q0 doc_id 2276 rank 10 BM25_score 7.361421 system_name
query_id 4 Q0 doc_id 2454 rank 11 BM25_score 7.268711 system_name
query_id 4 Q0 doc_id 3137 rank 12 BM25_score 7.026028 system_name
query_id 4 Q0 doc_id 241 rank 13 BM25_score 6.980756 system_name
query_id 4 Q0 doc_id 2261 rank 14 BM25_score 6.921339 system_name
query_id 4 Q0 doc_id 2816 rank 15 BM25_score 6.858646 system_name
query_id 4 Q0 doc_id 3084 rank 16 BM25_score 6.853687 system_name
query_id 4 Q0 doc_id 3148 rank 17 BM25_score 6.836433 system_name
query_id 4 Q0 doc_id 2798 rank 18 BM25_score 6.704256 system_name
query_id 4 Q0 doc_id 3082 rank 19 BM25_score 6.700938 system_name
query_id 4 Q0 doc_id 653 rank 20 BM25_score 6.645645 system_name
query_id 4 Q0 doc_id 3072 rank 21 BM25_score 6.587612 system_name
query_id 4 Q0 doc_id 2481 rank 22 BM25_score 6.487691 system_name
query_id 4 Q0 doc_id 2649 rank 23 BM25_score 6.453610 system_name
query_id 4 Q0 doc_id 2216 rank 24 BM25_score 6.390528 system_name
query_id 4 Q0 doc_id 2549 rank 25 BM25_score 6.340874 system_name
query_id 4 Q0 doc_id 1003 rank 26 BM25_score 6.313109 system_name
query_id 4 Q0 doc_id 2212 rank 27 BM25_score 6.224801 system_name
query_id 4 Q0 doc_id 2250 rank 28 BM25_score 6.215547 system_name
query_id 4 Q0 doc_id 1733 rank 29 BM25_score 6.185977 system_name
query_id 4 Q0 doc_id 1941 rank 30 BM25_score 6.185977 system_name
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query_id 4 Q0 doc_id 3119 rank 64 BM25_score 5.148098 system_name
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query_id 4 Q0 doc_id 3098 rank 99 BM25_score 4.661827 system_name
query_id 4 Q0 doc_id 1583 rank 100 BM25_score 4.637555 system_name

//Query 5

//appli stochast process

query_id 5 Q0 doc_id 1696 rank 1 BM25_score 9.607553 system_name
query_id 5 Q0 doc_id 1410 rank 2 BM25_score 8.343157 system_name
query_id 5 Q0 doc_id 2535 rank 3 BM25_score 8.121770 system_name
query_id 5 Q0 doc_id 268 rank 4 BM25_score 8.008449 system_name
query_id 5 Q0 doc_id 2841 rank 5 BM25_score 7.327315 system_name
query_id 5 Q0 doc_id 1194 rank 6 BM25_score 7.122213 system_name
query_id 5 Q0 doc_id 2628 rank 7 BM25_score 7.047083 system_name
query_id 5 Q0 doc_id 2882 rank 8 BM25_score 6.868673 system_name
query_id 5 Q0 doc_id 2777 rank 9 BM25_score 6.264778 system_name
query_id 5 Q0 doc_id 1540 rank 10 BM25_score 6.234849 system_name
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query_id 5 Q0 doc_id 174 rank 12 BM25_score 6.163922 system_name
query_id 5 Q0 doc_id 2643 rank 13 BM25_score 6.081786 system_name
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query_id 5 Q0 doc_id 1717 rank 99 BM25_score 3.712952 system_name
query_id 5 Q0 doc_id 2483 rank 100 BM25_score 3.710997 system_name

//Query 6

//perform evalu and model of comput system

query_id 6 Q0 doc_id 2318 rank 1 BM25_score 12.593847 system_name
query_id 6 Q0 doc_id 3048 rank 2 BM25_score 11.308772 system_name
query_id 6 Q0 doc_id 1938 rank 3 BM25_score 10.815298 system_name
query_id 6 Q0 doc_id 2859 rank 4 BM25_score 10.627941 system_name
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query_id 6 Q0 doc_id 2522 rank 9 BM25_score 9.362644 system_name
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query_id 6 Q0 doc_id 2948 rank 100 BM25_score 5.004136 system_name

//Query 7

//parallel processor in inform retriev

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