```
Part 2 Results

With permutation 3a):

1.


   ************************************************************
  Documents Most Similar To Query number 6
   ************************************************************
   Similarity   Doc#  Author      Title
   ==========   ====  ========    ==============================

*   0.10953065   2828 Clark        #  Hierarchical Geometric Mod
    0.10028232   2753 Pfefferkorn  #  A Heuristic Problem Solvin
    0.08859320   3035 Wetherbe     #  A Strategic Planning Metho
    0.07897459   2087 Pager        #  A Number System for the Pe
    0.07824874   2389 Eastman      #  Preliminary Report on a Sy
*   0.07657006   1543 Howard       #  Computer Formulation of th
    0.07470506   2721 Claudson     #  The Digital Simulation of
    0.07073989   2187 Amarel       #  Computer Science: A Concep
    0.06121554   2230 Bracchi      #  A Language for Treating Ge
    0.05876586   695  Carlson      #  Use of the Disk File on St
    0.05797305   2671 Stone        #  A Note on a Combinatorial
    0.05753394   2836 Loui         #  Weighted Derivation Trees
    0.05558877   2505 Roy          #  Reflection-Free Permutatio
    0.05352421   2707 Bitner       #  Backtrack Programming Tech
    0.05109013   605  --           #  Computer Simulation Of Cit
    0.04812039   2485 Nolan        #  Managing the Computer Reso
    0.04775190   2826 Burtnyk      #  Interactive Skeleton Techn
    0.04529328   3086 Fredman      #  On the Complexity of Compu
    0.04512575   2834 Bitner       #  Efficient Generation of th
    0.04485830   3040 Freuder      #  Synthesizing Constraint Ex
    0.04446212   2909 Wirth        #  What Can We Do about the U

Show the terms that overlap between the query and retrieved docs (y/n): y
============================================================
Vector Overlap          6       2828  Docfreq
============================================================
geometric              11         41  9
motion                 23          5  9
============================================================
Vector Overlap          6       2753  Docfreq
============================================================
planning               10         67  18
============================================================
Vector Overlap          6       3035  Docfreq
============================================================
planning               10         41  18
============================================================
Vector Overlap          6       2087  Docfreq
============================================================
combinatorial          10         20  20
============================================================
```

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Vector Overlap          6       2389  Docfreq
============================================================
planning               10         25  18

Continue (y/n)?
============================================================
Vector Overlap          6       1543  Docfreq
============================================================
motion                 23         11  9
============================================================
Vector Overlap          6       2721  Docfreq
============================================================
planning               10         25  18
dynamics               13         33  4
============================================================
Vector Overlap          6       2187  Docfreq
============================================================
planning               10         25  18
============================================================
Vector Overlap          6       2230  Docfreq
============================================================
geometric              11          5  9
planning               10         25  18
============================================================
Vector Overlap          6        695  Docfreq
============================================================
arm                    13          6  3
motion                 23          5  9

Continue (y/n)?
============================================================
Vector Overlap          6       2671  Docfreq
============================================================
combinatorial          10         20  20



    ************************************************************
  Documents Most Similar To Query number 9
    ************************************************************
    Similarity   Doc#  Author      Title
    ==========   ==== ========     ============================

    0.30567077   2949 Tajibnapis   #  A Correctness Proof of a T
    0.26576856   1685 Schurmann    #  GAN, a System for Generati
    0.25519867   2621 Purdy        #  A High Security Log-in Pro
    0.19683258   2849 Metcalfe     #  Ethernet: Distributed Pack
*   0.19441496   3068 Popek        #  A Model for Verification o
*   0.19313026   2372 Conway       #  On the Implementation of S
    0.18710868   2776 Chambers     #  Computer Networks in Highe
    0.17622703   2969 Morgan       #  Optimal Program and Data L
```

```
      0.17456445   3141 Chang        #  An Improved Algorithm for
      0.17272583   3082 Lamport      #  Time, Clocks, and the Orde
      0.17086823   2900 Grapa        #  Some Theorems to Aid in So
      0.16984913   1750 Fuchel       #  Considerations in the Desi
      0.16432632   3174 Morris       #  Password Security: A Case
      0.16416133   2317 Rosen        #  Programming Systems and La
      0.16348983   2197 Nielsen      #  The Merit of Regional Comp
      0.16169326   2311 Benjamin     #  A Generational Perspective
      0.16024165   2951 Mamrak       #  Dynamic Response Time Pred
      0.15518572   2614 Crandall     #  Arrow to Precedence Networ
      0.14827486   2948 Heckel       #  A Terminal-Oriented Commun
      0.14798472   2345 Ashenhurst   #  Curriculum Recommendations
      0.14763691   1695 Dill         #  PLEXUS-An On-Line System f

Show the terms that overlap between the query and retrieved docs (y/n): y
============================================================
Vector Overlap          9       2949  Docfreq
============================================================
network                 7         43  64
networks                8         34  44
operating               6         13  121
distributed             9         62  27
============================================================
Vector Overlap          9       1685  Docfreq
============================================================
network                 7        117  64
networks                8         21  44
============================================================
Vector Overlap          9       2621  Docfreq
============================================================
Security               12         18  7
systems                 8         20  344
operating               6         13  121
============================================================
Vector Overlap          9       2849  Docfreq
============================================================
networks                8         21  44
local                   9          4  22
systems                 8          2  344
operating               6          3  121
distributed             9         52  27
============================================================
Vector Overlap          9       3068  Docfreq
============================================================
Security               12         18  7
systems                 8         13  344
operating               6          9  121

Continue (y/n)?
============================================================
Vector Overlap          9       2372  Docfreq
============================================================
Security               12         18  7
systems                 8         22  344
```

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operating               6         16  121
============================================================
Vector Overlap          9       2776  Docfreq
============================================================
network                 7         11  64
networks                8         42  44
operating               6          3  121
============================================================
Vector Overlap          9       2969  Docfreq
============================================================
network                 7          3  64
networks                8         21  44
distributed             9         19  27
============================================================
Vector Overlap          9       3141  Docfreq
============================================================
systems                 8         17  344
operating               6         13  121
distributed             9         19  27
============================================================
Vector Overlap          9       3082  Docfreq
============================================================
networks                8         17  44
systems                 8         17  344
distributed             9          9  27

Continue (y/n)?
============================================================
Vector Overlap          9       2900  Docfreq
============================================================
network                 7          3  64
networks                8         17  44
distributed             9         19  27
```

```
    ************************************************************
  Documents Most Similar To Query number 22
    ************************************************************
    Similarity   Doc#  Author      Title
    ==========   ==== ========     ==============================

*   0.31145323   2678 Wright       #  Visible Surface Plotting P
*   0.30636232   2751 Phong        #  Illumination for Computer
*   0.23869886   2473 Macleod      #  Hidden-Line Plotting Progr
*   0.23144756   2369 Matsushita   #  Hidden Lines Elimination f
    0.22973724   2004 Bouknight    #  A Procedure for Generation
*   0.22742001   2827 Levin        #  A Parametric Algorithm for
*   0.22286138   2384 Williamson   #  Hidden-Line Plotting Progr
*   0.21184921   2829 Blinn        #  Texture and Reflection in
    0.21082257   2913 Crow         #  The Aliasing Problem in Co
```

```
217   *   0.20077396   2828 Clark        #  Hierarchical Geometric Mod
218   *   0.16111961   2692 Sutherland   #  Reentrant Polygon Clipping
219       0.15615843   1915 Galimberti   #  An Algorithm for Hidden Li
220       0.13000577   1978 Smith        #  The Use of Interactive Gra
221       0.11224889   2925 Fuchs        #  Optimal Surface Reconstruc
222       0.09839900   2924 Wu
223       0.07500335   2687 Jordan       #  A Cell Organized Raster Di
224       0.07334894   2809 Bauer        #  Positivity and Norms
225       0.07265295   2674 Barrett      #  Scan Conversion Algorithms
226       0.06571736   2152 Newman       #  Display Procedures
227       0.05924804   2987 Burton       #  Representation of Many-Sid
228       0.05868690   2003 Bracchi      #  An Interactive Software Sy
229
230
231   Show the terms that overlap between the query and retrieved docs (y/n): y
232   ============================================================
233   Vector Overlap         22       2678  Docfreq
234   ============================================================
235   surface                10         20  21
236   graphics                8         16  50
237   computer                3          7  519
238   hidden                 22         22  13
239   line                    7         14  81
240   ============================================================
241   Vector Overlap         22       2751  Docfreq
242   ============================================================
243   surface                10         35  21
244   algorithms              5          2  189
245   graphics                8         16  50
246   computer                3          9  519
247   hidden                 22         38  13
248   ============================================================
249   Vector Overlap         22       2473  Docfreq
250   ============================================================
251   surface                10         20  21
252   I                       5          8  176
253   hidden                 22         22  13
254   line                    7         14  81
255   ============================================================
256   Vector Overlap         22       2369  Docfreq
257   ============================================================
258   This                    3          1  470
259   graphics                8         33  50
260   computer                3         14  519
261   hidden                 22         27  13
262   line                    7         18  81
263   ============================================================
264   Vector Overlap         22       2004  Docfreq
265   ============================================================
266   surface                10         45  21
267   This                    3          1  470
268   graphics                8         16  50
269   computer                3         12  519
270   hidden                 22         22  13
```

```
line                    7         14  81

Continue (y/n)?
============================================================
Vector Overlap         22       2827  Docfreq
============================================================
surface                10         55  21
This                    3          1  470
graphics                8         16  50
computer                3          7  519
hidden                 22         27  13
============================================================
Vector Overlap         22       2384  Docfreq
============================================================
surface                10         20  21
hidden                 22         22  13
line                    7         14  81
============================================================
Vector Overlap         22       2829  Docfreq
============================================================
surface                10         35  21
This                    3          1  470
graphics                8         16  50
computer                3          7  519
hidden                 22         22  13
============================================================
Vector Overlap         22       2913  Docfreq
============================================================
surface                10         25  21
algorithms              5          2  189
This                    3          1  470
graphics                8         16  50
computer                3          7  519
hidden                 22         27  13
============================================================
Vector Overlap         22       2828  Docfreq
============================================================
surface                10         50  21
algorithms              5         22  189
computer                3          1  519
hidden                 22         22  13

Continue (y/n)?
============================================================
Vector Overlap         22       2692  Docfreq
============================================================
surface                10         25  21
algorithms              5         14  189
This                    3          1  470
graphics                8         16  50
I                       5          8  176
computer                3          7  519
hidden                 22         27  13
```

3.

```
  ************************************************************
  Documents Most Similar To Document number 239
  ************************************************************
  Similarity   Doc#  Author      Title
  ==========   ====  ========    ==============================

  1.00000000   239   Verhoeff    #  Inefficiency of the Use of
  0.47631382   1032  Belzer      #  Theoretical Considerations
  0.20583021   651   Grems       #  A Survey of Languages and
  0.17848173   652   Sable       #  Use of Semantic Structure
  0.16159998   634   Salton      #  Manipulation of Trees in I
  0.15582079   1329  Mano        #  Simulation of Boolean Func
  0.15499013   1207  Dodd        #  Remarks on Simulation of B
  0.14173158   275   Sams        #  Dynamic Storage Allocation
  0.12039201   3012  Lucas       #  The Use of an Interactive
  0.11928562   635   Baker       #  A Note on Multiplying Bool
  0.11922194   2070  Hsiao       #  A Formal System for Inform
  0.11650461   2965  Hanani      #  An Optimal Evaluation of B
  0.11069690   2160  Wong        #  Canonical Structure in Att
  0.11035596   891   Whitley     #  Everyman's Information Ret
  0.10731072   1233  --          #  Conventions for the Use of
  0.10485182   292   Kehl        #  An Information Retrieval L
  0.10431438   1457  Salton      #  Data Manipulation and Prog
  0.10133893   3168  Laird       #  Comment on "An Optimal Eva
  0.10114213   2824  Duong       #  An Improvement to Martin's
  0.09787172   948   Healy       #  Note on the Use of Procedu
  0.09722451   2340  Martin      #  A Boolean Matrix Method fo


  ************************************************************
  Documents Most Similar To Document number 1236
  ************************************************************
  Similarity   Doc#  Author      Title
  ==========   ====  ========    ==============================

  1.00000000   1236  Salton      #  The SMART Automatic Docume
  0.26313981   1457  Salton      #  Data Manipulation and Prog
  0.25511322   634   Salton      #  Manipulation of Trees in I
  0.21953196   2307  Salton      #  Dynamic Document Processin
  0.18317411   2711  Salton      #  A Vector Space Model for A
  0.15439938   2575  Van         #  The Best-Match Problem in
  0.12829209   1536  Lesk        #  Dynamic Computation of Der
  0.12641095   2990  Yu
  0.12399758   3012  Lucas       #  The Use of an Interactive
  0.11582457   1699  Rubinoff    #  Experimental Evaluation of
  0.11150162   3135  Lesk        #  Detection of Three-Dimensi
  0.10703998   891   Whitley     #  Everyman's Information Ret
  0.10702277   1271  Davis       #  Secondary Key Retrieval Us
  0.10276252   2278  Tan         #  On Foster's Information St
```

```
   0.10058845   1927 Salton       #  Information Science in a P
   0.09803172   275  Sams         #  Dynamic Storage Allocation
   0.09451158   1515 Levien       #  A Computer System for Infe
   0.09192346   651  Grems        #  A Survey of Languages and
   0.09096082   1937 Day          #  CODAS: A Data Display Syst
   0.08962309   798  Scheff       #  A Catalogue Entry Retrieva
   0.08934509   2947 Schneider    #  SITAR: An Interactive Text



   ************************************************************
 Documents Most Similar To Document number 2740
   ************************************************************
   Similarity   Doc#  Author      Title
   ==========   ==== ========     ==============================

   1.00000000   2740 Lauesen      #  A Large Semaphore Based Op
   0.33996310   1749 Dijkstra     #  The Structure of the "THE"
   0.25771543   2379 Liskov       #  The Design of the Venus Op
   0.23048474   2920 Devillers    #  Game Interpretation of the
   0.22896835   2378 Gaines       #  An Operating System Based
   0.20851351   2228 Holt         #  Comments on Prevention of
   0.20388055   2500 Frailey      #  A Practical Approach to Ma
   0.19428052   2342 Gilbert      #  Interference Between Commu
   0.19191154   3043 Hansen       #  Distributed Processes: A C
   0.17824980   2280 Parnas       #  Comment on Deadlock Preven
   0.16791430   2080 Hansen       #  The Nucleus of a Multiprog
   0.15520010   2597 Hoare        #  Monitors: An Operating Sys
   0.15350404   2865 Owicki       #  Verifying Properties of Pa
   0.15328171   2320 Hansen       #  Structured Multiprogrammin
   0.15266582   2777 Parnas       #  On a Solution to the Cigar
   0.14506061   2618 Lamport      #  A New Solution of Dijkstra
   0.14427527   2376 Habermann    #  Synchronization of Communi
   0.14356215   2542 Graham       #  A Software Design and Eval
   0.14127104   2541 Balzer       #  An Overview of the ISPL Co
   0.14086411   2700 Lipton       #  Reduction: A Method of Pro
   0.13642901   1752 Oppenheimer  #  Resource Management for a
```