

SOC-LAB7

By Yi(Elliot) Cao

how to run my code:

1. import the project
2. Run keywordSearch.java to search article titles include “Pattern” “Matching”
3. Run spatialSearch.java to search article titles include the key words “Pattern” “Matching”

And the publication year is from 1994 to 1998;

4. Run searchEngineClient.java to creat REST

5. The REST address:

http://localhost:8080/Yi_Cao_Lab7_/rest/SearchEngine/result

Note: Here the input is just a sample, we can change the input in the main functions of above two java files.

Design steps and the techniques used :

1. Learning the spatial index concepts of mysql
2. Learning the basics of Lucene
3. Design the spatial index of mysql table

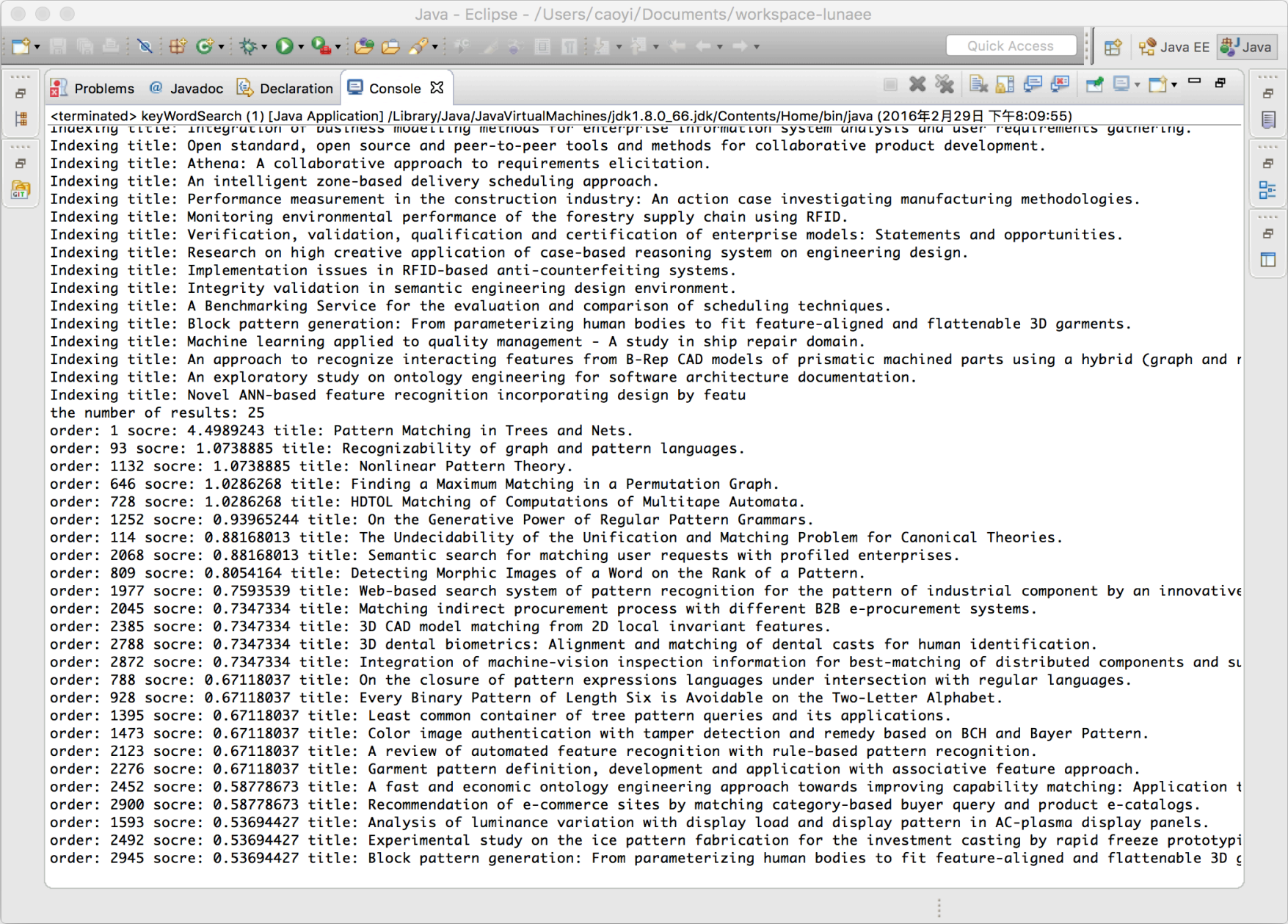
Here I used paper titles and publication years as the coordinates and compared with other choices I tried, including using publication month and year as two coordinates, this decision could improve the search efficiency.

4. Design the Rest application

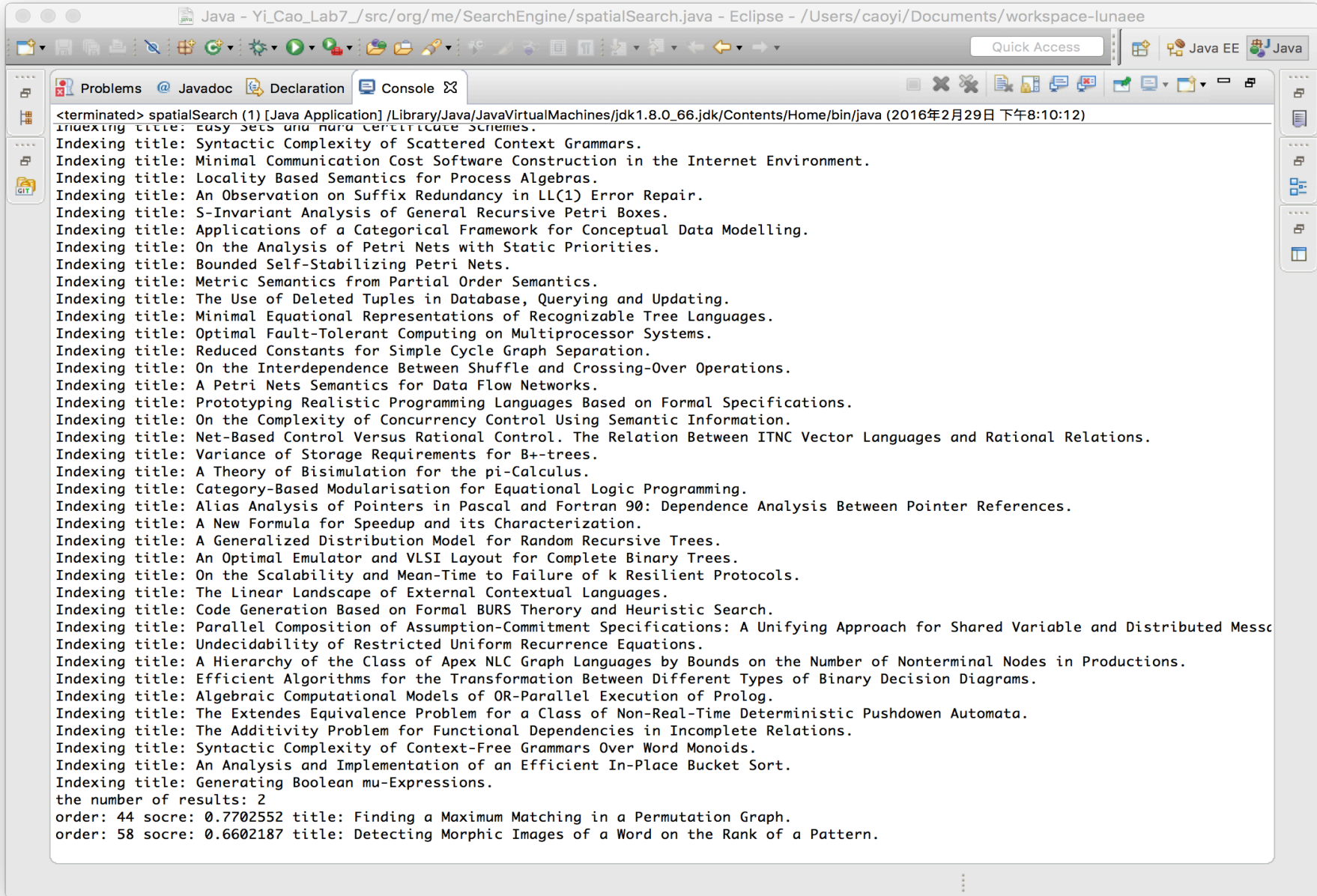
Techniques:

1. Lucene
2. Spatial Index and Search
3. JDBC
4. REST

Find article titles including “pattern” “ matching”



2. Find titles include the key words “Pattern” “Matching”
And the publication year is from 1994 to 1998;



REST address: http://localhost:8080/Yi_Cao_Lab7_/rest/SearchEngine/result

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localhost:8080/Yi_Cao_Lab7_/rest/SearchEngine/result

应用 登录QQ邮箱 Outlook.com - caoyie 马云转 朴信惠转 CMU 留学论坛 找工作 转cs+刷题 网课 廉价机票 论文 其他书签

order: 1 socre: 4.4989243 title: Pattern Matching in Trees and Nets.

order: 93 socre: 1.0738885 title: Recognizability of graph and pattern languages.

order: 1132 socre: 1.0738885 title: Nonlinear Pattern Theory.

order: 646 socre: 1.0286268 title: Finding a Maximum Matching in a Permutation Graph.

order: 728 socre: 1.0286268 title: HDTOL Matching of Computations of Multitape Automata.

order: 1252 socre: 0.93965244 title: On the Generative Power of Regular Pattern Grammars.

order: 114 socre: 0.88168013 title: The Undecidability of the Unification and Matching Problem for Canonical Theories.

order: 2068 socre: 0.88168013 title: Semantic search for matching user requests with profiled enterprises.

order: 809 socre: 0.8054164 title: Detecting Morphic Images of a Word on the Rank of a Pattern.

order: 1977 socre: 0.7593539 title: Web-based search system of pattern recognition for the pattern of industrial component by an innovative technology.

order: 2045 socre: 0.7347334 title: Matching indirect procurement process with different B2B e-procurement systems.

order: 2385 socre: 0.7347334 title: 3D CAD model matching from 2D local invariant features.

order: 2788 socre: 0.7347334 title: 3D dental biometrics: Alignment and matching of dental casts for human identification.

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