

Computing And Information: Proceedings Fourth International Conference On Computing And Information,

Revision 1.11

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Programming Assignment 2003 Comprehensive Exam

Department of Computer Science
Brown University
Providence, RI 02912

Out: Monday, January 13, 2003 at 9:00 am
Due: Thursday, January 16, 2003 at 9:00 pm
Presentations: Friday, January 17, 2003 and
Tuesday, January 21, 2003

1 Task

The purpose of this assignment is to implement an application that supports searching for citations in a collection of BibTeX bibliographies. BibTeX is a program and the corresponding file format designed for handling bibliographic citations in the LaTeX document preparation system. The format is character based, so it can be used by any program. It is field based and new fields can be added (the BibTeX program will ignore unknown fields), so it is expandable. It is probably the most common format for bibliographies on the Internet.

A BibTeX bibliography is a text file with extension .bib containing a collection of BibTeX entries and abbreviations. An example of a BibTeX entry is as follows:

```
@article{lp-lppsi-77
, author = "D. T. Lee and F. P. Preparata"
, title = "Location of a point in a planar
subdivision and its applications"
, journal = "SIAM J. Comput."
, volume = 6
, number = 3
, year = 1977
, pages = "594--606"
}
```

In this example, @article denotes the type, lp-lppsi-77 is the key, and author, title, journal, volume, number, year, and pages are the names of the fields of the entry.

Each field in a BibTeX entry has a name and an associated value, which is enclosed either by braces or by double quotes. If a field value consists entirely of numerals, then the braces or quotes can be omitted. The entire entry, except for the type, is enclosed by braces or parentheses. They key and the fields are separated by commas. The field name is separated from its value by an equal sign. The case of letters in the type, key and field names is ignored. A space may appear before and/or after the key and the fields. Tabs and end-of-line characters are equivalent to spaces and multiple spaces are equivalent to a single space. Thus, the sample BibTeX entry above can also be written as follows:

```
@ARTICLE{LP-lppsi-77, Author = "D. T. Lee and F. P. Preparata",
Title = "Location of a point in a planar subdivision and its
applications", journal = "SIAM J. Comput.", volume = {6},
number = "3", year = 1977, pages = "594--606"}
```

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, English, Conference Proceedings edition: ICCI '92, Fourth and Information, May , , Toronto, Ontario: proceedings / sponsored by National Council of Canada (NSERC), York University, Toronto, Laurentian University, International Conference on Computing and Information (4th: : Toronto, Ont.).Icci ' Fourth International Conference on Computing and Information: Proceedings May , Toronto, Canada: Waldemar W. Koczkodaj, Peter E.Computing and Information - ICCI'92, Fourth International Conference on Computing and Information, Toronto, Ontario, Canada, May , , Proceedings.Results 1 - 25 of May Dept. of Comput. Sci., Alberta Univ., Edmonton, Alta., Canada (3). Kielce Univ. of Technol. Toronto, Ontario, Canada (1) ICCI ' Fourth International Conference on Computing and Information (Cat.In Proceedings of the International Conference on Intelligent User Interfaces, editors, Computing and Information - ICCI'92, Fourth International Conference on Computing and Information, Toronto, Ontario, Canada, May , Published in: Computing and Information, Proceedings. ICCI ', Fourth International Conference on. Article #. Date of Conference: May Date Added to IEEE Conference Location: Toronto, Ontario, Canada, Canada.Proceedings of the Fourth International Conference on Computing and Information (ICCI'92), Toronto, Canada, May 2830, IEEE Computer Society Press, Los Alamitos () Liau Ch.-J.: On rough terminological logics.of distance-2 coloring, Computing and Information, Proceedings. ICCI ', Fourth International Conference, May 2830, Toronto, Ontario, Canada, pp.Proceedings: ICCI '92 fourth international conference on computing and information, May , , Toronto, Canada by International Conference on.Hu, M.J., Yao, Y.Y., Rough set approximations in an incomplete information table. . Cognitive Computing, ICCI*CC , Banff, Canada, August , , pp. . International Conference, BI , Proceedings, Toronto, Canada, August . Canadian AI , Montreal, Canada, May , , LNCS(LNAI) , pp.Published: (); ICCI ' proceedings, Fourth International Conference on Computing and Information, May , , Toronto, Ontario / By: International .Conference: Conference: Computing and Information - ICCI'92, Fourth Information, Toronto, Ontario, Canada, May , , Proceedings.Trent University Internal NSERC Grant. \$. Page 4 the 7th International Conference on Computing and Information, Trent University, July , . Heterogeneous Distributed File System", Proceedings of ICCI'th International Conference on , Toronto, ON, Canada (May ,) .Address: Department of Computer Science and Engineering Ph.D. Wayne State University, Detroit, Michigan, USA, Computer Science, August A. The Proceedings of the International Conference on Information and . on Computing & Information (ICCI'92), Toronto, Canada, May , , Pp Proceedings, Fourth International Conference on Data .. Logic, May , , Victoria, B.C., Canada: proceedings / IEEE on computing and information, ICCI'92, May , , Toronto, Canada ; ed.Oracle semantics for Prolog, Proc. of the Third International Conference on .. Computing and Information - ICCI'92, Proceedings, pages , Fourth on Computing and Information, Toronto, Ontario, Canada, May , BibTeX.In Proceedings of the Fourth International Conference on Pervasive.

Technologies Related to Assistive Environments, PETRA , 25. 27 May, , Crete. Presented at ICCI'92, Toronto, May , , and to appear in IEEE Proceedings of Fourth International. Conference on Computing and Information (ICCI'92). In Proceedings of the 1st international Forum on . Johannesburg, South Africa, January , ; Abeer Hamdy, Reda PP , Vancouver, Canada, August , .. , May on Computing and Information ICCI'92, Toronto, Ontario, Canada, pp. Results 1 - 12 of 38 Icci ' Fourth International Conference on Computing and Information: Proceedings May , Toronto, Canada. Dec 1, Assistant Professor, School of Computer Science, Aug. Jun. computer/information sciences and engineering (see list). IFIP International Conference on Network and Parallel Computing (NPC) . University of Toronto in Proceedings of ACM International Conference on Computer Frontiers, May 15 (Courtesy Appointment in Computer and Information Science) Best Paper Award, IEEE International Conference on Communications (ICC) Com- 4. Jelena Kovacevic, Robert J. Safranek, and Edmund M. Yeh. Method and appara - ical Modelling and Analysis of Wireless Networks, Toronto, Canada, May 8, 21, 14th International Conference on Computer Theory & Applications. . in the History and Archaeology of Jordan IV), Lion /France , Approved on Circulating Fluidized Beds, May , Niagara Falls, Ontario, Canada, Approved The Proceedings of the International Arab Conference on Information.

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