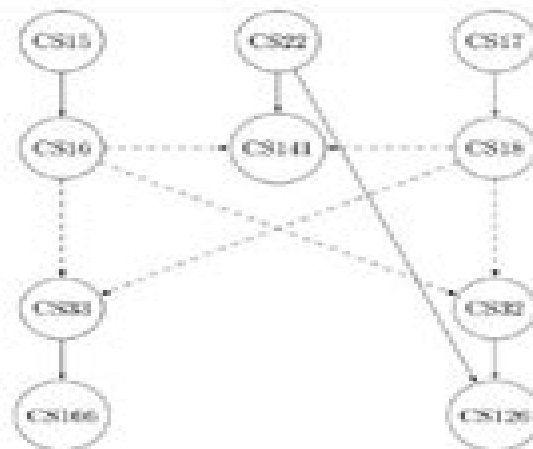


Task1: Curriculum of Computer Science Department – 3 marks

Your task is to create a knowledge base describing courses and their prerequisites. The graph below shows the courses and their prerequisites.



As shown in the graph, a solid directed arrow from CS15 to CS16 indicates that CS15 is a prerequisite to CS16. A dotted arrow means that ONE of the these courses is a prerequisite of the course. For example, to take CS33, you have to take *either* CS16 *or* CS18. Course names are constants, so you have to use lowercase letters (cs22,cs33, etc) in your code. More facts about the transcript are:

- CS15, CS17, CS33, CS141 and CS126 are only offered in the fall.
- CS16, CS18, CS22, CS32, CS166 are only offered in the spring.

You also have a set of **rules** as follows:

- A course is **introductory** if it's offered in the fall and has no prerequisites, or if it's offered in the spring and its prerequisite that has no prerequisites.
 - A course is **intermediate** if it is not introductory, but its prerequisites are all introductory courses.
 - A course is **upper level** if its prerequisites are not introductory courses, or if its prerequisites are CS22 **and** introductions.
 - Course may only be of one level; i.e., introductory courses may not also be intermediate courses, etc.
- A. Considering the fact, that fall semester is over and Sarah were able to complete 4 courses only and failed in CS33. You should now add a set of facts that students have taken some courses using the `has_taken` predicate (i.e., `has_taken(sarah, cs15)`).
- B. Then, you need to add one more rule to test the eligibility of a student to take a course in the spring: `can_take(Student, Course)`, true when Student is eligible to take Course (i.e., they have taken the necessary prerequisites).

Computer Science A453 Task1

ML Morrison



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Recognizing the State of Emotion, Cognition and Action from Physiological and Behavioural Signals Siyuan Chen, Youngjun Cho, Kun Yu, Laura M. Ferrari, Francois Bremond, 2022-09-13 **Research and Technology Objectives and Plans Summary (RTOPS)**, 1985 Encyclopedia of Cognitive Science, 4 Volume Set Lynn Nadel, 2005-09-23 An exciting reference work which captures current thinking about the workings of the mind and brain focusing on problems that are as old as recorded history but reflecting new approaches and techniques that have emerged since the 1980 s The Encyclopedia contains 696 articles covering in depth the entire spectrum of the cognitive sciences Reviewing the common themes of information and information processing representation and computation it also covers in depth the core areas of psychology philosophy linguistics computer science and neuroscience Ancillary topics such as education economics evolutionary biology and anthropology are also covered The articles have been written to provide multiple levels of information so that readers from various levels can benefit from this set from undergraduate and postgraduate students to university lecturers With extensive cross referencing a glossary and subject index to further aid the reader through the book the Encyclopedia of Cognitive Science is an essential addition to any library or office shelf The Encyclopedia of Cognitive Science ECS includes 4 Volumes 4000 pages 696 articles Contributions from the world s leading experts 1 500 illustrations Detailed indexes and appendices Extensive cross referencing **Scientific and Technical Aerospace Reports**, 1993 *Technical Abstract Bulletin*, 1965 Experimental IR Meets Multilinguality, Multimodality, and Interaction Alberto Barrón-Cedeño, Giovanni Da San Martino, Mirko Degli Esposti, Fabrizio Sebastiani, Craig Macdonald, Gabriella Pasi, Allan Hanbury, Martin Potthast, Guglielmo Faggioli, Nicola Ferro, 2022-08-24 This book constitutes the refereed proceedings of the 13th International Conference of the CLEF Association CLEF 2022 held in Bologna Italy in September 2022 The conference has a clear focus on experimental information retrieval with special attention to the challenges of multimodality multilinguality and interactive search ranging from unstructured to semi structures and structured data The 7 full papers presented together with 3 short papers in this volume were carefully reviewed and selected from 14 submissions This year the contributions addressed the following challenges authorship attribution fake news detection and news tracking noise detection in automatically transferred relevance judgments impact of online education on children s conversational search behavior analysis of multi modal social media content knowledge graphs for sensitivity identification a fusion of deep learning and logic rules for sentiment analysis medical concept normalization and domain specific information extraction In addition to this the volume presents 7 best of the labs papers which were reviewed as full paper submissions with the same review criteria 14 lab overview papers were accepted and represent scientific challenges based on new datasets and real world problems in multimodal and multilingual information access Encyclopedia of Cognitive Science: Similarity Lynn Nadel, 2003 At the core of this encyclopedia are approximately 700 original signed articles written and peer reviewed by the world s leading

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