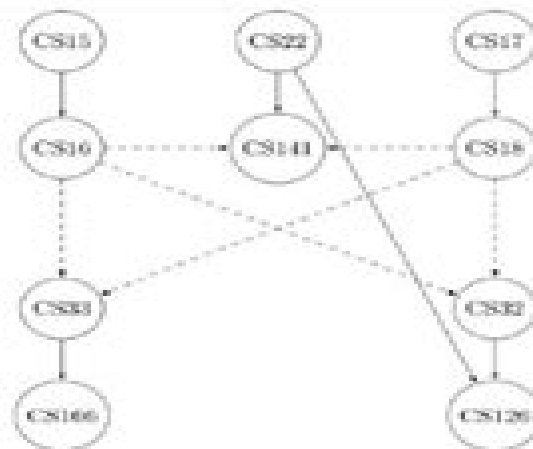


### Task1: Curriculum of Computer Science Department – 3 marks

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

**Michael J. Kroes, James R. Rardon**



## Computer Science A453 Task1:

**Pure and Applied Science Books, 1876-1982**, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes American Book Publishing Record, 1999

Agrindex, 1995 **Union List of Serials of the California State University** California State University, 1991

**Encyclopedia of Imaging Science and Technology, 2 Volume Set** Joseph P. Hornak, 2002 This encyclopedia is the first to offer in depth coverage of imaging science and technology from a diverse range of applications techniques and fields of study Today imaging is used by astronomers to map distant galaxies oceanographers to map the sea floor chemists to map the distribution of atoms on a surface physicians to map the functionality of the brain and electrical engineers to map electromagnetic fields around power lines With this encyclopedia scientists engineers and physicians can understand more about the science and technology behind the imaging techniques they are currently using and learn the latest technologies Diverse coverage offers the ability to learn from applications in archeology aviation astronomy chemistry forensics geography mathematics medicine meteorology microscopy oceanography surveillance and more and how to apply those imaging solutions to many different problems Also available in a user friendly online edition The new electronic version of the Encyclopedia accessible through Wiley InterScience offers enhanced browsing searching and cross referencing capabilities Visit [www.interscience.wiley.com/eist](http://www.interscience.wiley.com/eist) *National Union Catalog*, 1978 Includes entries for maps and atlases *New Serial Titles*, 1992 A union list of serials commencing publication after Dec 31 1949 Bibliography of Agriculture, 1976 The National Union Catalogs, 1963-, 1964 **The Economist**, 1970 **American Book Publishing Record Cumulative, 1950-1977: Non-Dewey decimal classified titles** R.R. Bowker Company. Department of Bibliography, 1978

Monographic Series Library of Congress, 1978 **U.S. Environmental Protection Agency Library System Book Catalog** United States. Environmental Protection Agency. Library Systems Branch, 1970 Includes the monographic collection of the 28 libraries comprising the Library System of the Environmental Protection Agency **Bibliography of Agriculture with Subject Index**, 1975-05 **Referativnyi zhurnal**, 1987 American Book Publishing Record Cumulative, 1950-1977 R.R. Bowker Company. Department of Bibliography, 1978 Library of Congress Catalogs Library of Congress, 1970

*Aircraft Basic Science* Michael J. Kroes, James R. Rardon, 1993-02-16 The material in this text is designed primarily as a resource for students of aviation technology who are preparing for FAA aircraft and powerplant maintenance certification The text begins with a review of practical mathematics and a general presentation of the underlying principles of physics The extensively revised chapter on aerodynamics provides students with a conceptual understanding of the mathematics and

physics of flight Chapters are well illustrated and present specific aspects of aircraft materials fabrication processes maintenance tools and techniques and federal aviation regulations This updated edition is consistent with FAA regulations and procedures      **University of California Union Catalog of Monographs Cataloged by the Nine Campuses from 1963 Through 1967: Authors & titles** University of California (System). Institute of Library Research, University of California, Berkeley, 1972      **Bibliographic Guide to Psychology** New York Public Library. Research Libraries, 1994

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### **Table of Contents Computer Science A453 Task1**

1. Understanding the eBook Computer Science A453 Task1
  - The Rise of Digital Reading Computer Science A453 Task1
  - Advantages of eBooks Over Traditional Books
2. Identifying Computer Science A453 Task1
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Computer Science A453 Task1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Science A453 Task1
  - Personalized Recommendations
  - Computer Science A453 Task1 User Reviews and Ratings

- Computer Science A453 Task1 and Bestseller Lists
- 5. Accessing Computer Science A453 Task1 Free and Paid eBooks
  - Computer Science A453 Task1 Public Domain eBooks
  - Computer Science A453 Task1 eBook Subscription Services
  - Computer Science A453 Task1 Budget-Friendly Options
- 6. Navigating Computer Science A453 Task1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Computer Science A453 Task1 Compatibility with Devices
  - Computer Science A453 Task1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Computer Science A453 Task1
  - Highlighting and Note-Taking Computer Science A453 Task1
  - Interactive Elements Computer Science A453 Task1
- 8. Staying Engaged with Computer Science A453 Task1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Computer Science A453 Task1
- 9. Balancing eBooks and Physical Books Computer Science A453 Task1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Computer Science A453 Task1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Computer Science A453 Task1
  - Setting Reading Goals Computer Science A453 Task1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computer Science A453 Task1
  - Fact-Checking eBook Content of Computer Science A453 Task1
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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