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ABSTRACT

The computer program described is written in BASIC and, although it was developed for use at Slippery Rock State College, it could be adapted easily for other libraries using Library of Congress classification and cataloging rules. The program uses simple sequences of instructions and explanations followed by questions. Branching is employed to advance students who answer correctly to the next unit of instruction, or to send those who respond incorrectly to remedial questions. While remedial instruction has to be kept at a minimum because of the memory limitations imposed by the college's IBM 370-135 computing system, a special feature does allow students to repeat missed material. Software limitations also prevented automatic graphic presentation of instructional materials, and a manual was developed to accompany the program. Despite its limitations, the program has been highly rated by librarians, library science majors, and undergraduate students at the college and from other institutions. The basic units include a general introduction, drawer arrangement, guide cards, types of catalog cards, catalog card format, information found on a catalog card, filing rules, and subject headings. Sample pages from the program guide, the evaluation questionnaire, and an analysis of evaluation data are attached.

(BBM)

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A COMPUTER-ASSISTED INSTRUCTION PROGRAM ON HOW TO
USE A LIBRARY CARD CATALOG: DESCRIPTION, PROGRAM,
AND EVALUATION

by

Richard J. Wood

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INTRODUCTIO

One roadblock to further use of computer-assisted instruction (CAI), on all educational levels is the unavailability of programs. Programs are usually developed by instructors for specific, course-related purposes. Thought is seldom given to making the program more widely available through publication, local reproduction and dissemination, or through ERIC. Often programs which could be acceptable to a national audience are not developed; rather, the only audience in the mind of the author is his class. The copyright question, largely unresolved, may prove to be a further hindrance to increased availability of CAI programs. They are virtually never available in any form, therefore, and deter potential authors from developing similar programs. Each time a new program is developed--the authors of CAI programs know, countless hours of reading, writing, and programming are involved. Evaluation, re-programming, and further evaluation occur continuously thereafter in developing an educationally sound and attractive instructional package. The ideal situation, then, is that the locally developed CAI program is made available to other educational institutions at little or no charge and with little or no change in the text. It is in this spirit that the program in this document is made available.

I believe that this program could be used at other colleges and universities with little change. The library at Slippery Rock State College follows ordinary Library of Congress classification and cataloging rules and is a member of the Ohio College Library Center. No strictly local cataloging or filing rules were included in the program. Further, the computer language used is BASIC, one of the most widely known and used languages today. Because programming for CAI is largely a mechanical exercise, it should not be trouble-

some to convert this program into another language in terms of the textual matter and questions which appear. Other features of the program may prove difficult to include. The advantages of BASIC over other languages such as COURSEWRITER in this regard is apparent.

A serious limitation of the program is the inability to achieve the state-of-the-art in computer-assisted instruction. This is the direct result of the limits of the college's IBM 370-135 computing system. The limitations in terms of available words of memory was severe. Sectioning of the material into distinct units and programs, computer-chained together, is one of the consequences. Such chaining is itself space, or memory consuming. The repetition can be easily seen by looking at the program statements at the end of each section, or sub-program.

The program, therefore, is a straightforward one which uses simple sequences of instructions and explanations, followed by questions. Branching is employed to advance the student who answers correctly to the next unit or instruction, or used to send the user who answers a question incorrectly to a remedial set or sets of questions. Remedial instruction had to be kept to a minimum because of the memory limitations imposed by the computer system. Software limitations were serious, therefore, and prevented automatic graphic presentation of instructional material in the forms of slide or microfiche projection of images. This restriction meant that a manual, or guide had to be developed also for the presentation of sample catalog cards, drawer arrangement, and other illustrations.

There are several features of the program which merit discussion. One feature allows the student to proceed to other units within the program. The basic units of the card catalog program are the following:

- a. introduction to a card catalog
- b. drawer arrangement
- c. guide cards
- d. types of catalog cards (author, title, subject, cross reference)
- e. catalog card format

- f. information found on a catalog card
- g. filing rules, and
- h. subject headings.

When proceeding to another unit, however, the user must begin at the start of the unit. Another possibly unique feature of the program enables the student to backspace approximately ten, twenty, or fifty lines to the beginning of an instruction. This feature causes missed material to be repeated. The backspacing technique was added because remedial instructions had to be kept to a minimum in order to conserve computer memory. The user, however, cannot advance in a similar fashion if he feels that he knows the material which is presented. He can, though, advance to a new unit if the material is well known to him. A pausing feature was added because some instructions were too lengthy and not interrupted by enough questions. The user may hit any key in order to advance after a pause. Material was not interrupted by questions toward the end of the entire program since, to have done so, would have required more computer memory than was available to the author. These features are explained in the manual as well as the program.

Despite such limitations, the program has been rated highly by librarians, library science majors, and by undergraduate students at the college. Five librarians from other institutions, five undergraduate library science majors, and fifteen other college undergraduate students were asked by the author to evaluate the program in the summer of 1978. Eleven qualities of a good program were evaluated. The form and the data collected appear on the next three pages. In terms of organization (3.9), usefulness (3.9), quality (3.7), and comprehensiveness (3.6), a solid A grade was received, based on a 4.0 QPA-type of grade or scale. A high B grade was received for clarity (3.3), speed (3.5), and amount of instruction (3.4). B scores were given for amount of student participation (3.2), feedback (3.3), stimulation (3.2), and difficulty (3.2). Comments of evaluators are included. It should be noted that no evaluators were knowledgeable about CAI.

GUIDE

The following pages are from
the Card Catalog Computer-assisted
instruction program guide

INTRODUCTION

This guide has been prepared for use with the Computer Assisted Instruction (CAI) program about using the card catalog of Slippery Rock State College Library. It is essential that you have this guide with you when using the program. This program requires the user to respond, at times, with answers which can only be determined by referring to this guide.

TERMINAL LOCATIONS

Any of the teletype (hard copy) or cathode ray tube (CRT) terminals on campus may be used. Several are located in the World Cultures RJE room, the Education Building Math Lab (second floor), and in Vincent Science Hall. A portable unit which may be taken home is available in the Career Laboratory in Maltby Center also. Instructions for operating these terminals are located adjacent to each terminal. A copy of this guide can be borrowed for use outside of the Library.

The terminals located near the Instructional Materials Center circulation desk on the second floor of the Library are the most likely to be used; instructions for operating them are listed below:

OPERATION AND SIGN-ON INSTRUCTIONS:

The following instructions apply to the terminals in the Library:

1. Turn on the CRT unit by flipping the on-off switch to ON. This switch is located under the keyboard on the right side.
2. Take the phone off the hook; dial 7 794-3232. When a high pitched tone is heard, place the receiver, cord end toward you, in the coupling device beside the terminal.
3. If you have done this properly and if the system is operational, the user should be greeted as follows:

WELCOME TO EDUCATIONAL COMPUTER SYSTEMS
SLIPPERY ROCK STATE COLLEGE
PLEASE SIGN ON

4. Type the following: SCARDCAT/BASIC

PRESS the CONTROL (CNTRL) key and then the letter S while holding down the CONTROL key. It is absolutely necessary that you do this after you typed a response; failure to do so will result in complete inactivity of the terminal, i.e., no response.

Wait for a terminal response such as READY, then type:
OLD-CDCAT

Await the READY message, then type: RUN

N.B. If the user wants to continue the program from the beginning of the section where he/she last left-off, type the number of that section after "OLD-CDCAT"

Example: OLD-CDCAT4
 OLD-CDCAT6

This will cause the program to advance to that numbered section.

If you do not receive this message or get the tone, call the Computer Center at 7 794-7326; the Center's staff will give you the necessary aid.

TYPING MISTAKES:

If you have caught a mistake in typing before depressing the CONTROL key and S, hit the shift key and type three (3) pound signs (###).

Example: YEA###

This should result in a PLEASE REPEAT MESSAGE for which you may type the correct response, or YES.

SPECIAL FEATURES OF THIS PROGRAM:

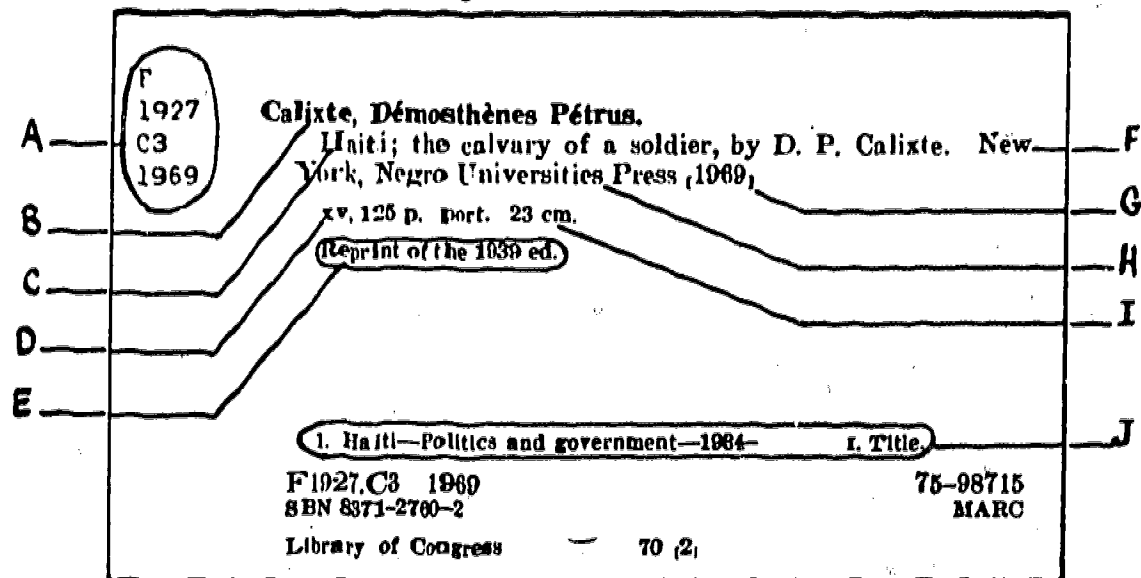
1. Correct answers are not always rewarded except by giving the user another question. This was made necessary to contain the size of the program.
2. A PAUSING feature exists when a set of instructions is very long. This feature was necessary so that these instructions would not go off the screen of the CRT terminals. After you have read the instructions, type GO or any other response.
3. A BRANCHING feature exists to enable the user to "jump around" the different programs or sections. The user can control where he wants to go by making one of the following responses at any

point where a question is asked:

- END - This ends a section
- B1 - This backspaces about 10 lines
- B2 - This backspaces about 25 lines
- B3 - This backspaces about 50 lines
- S1,S2, S3....S9 - This causes the designated section number to appear; the user is transferred to that section of the course.
- S* - S* will cause a list of the sections to be printed so that you may make your choice.
The names of these sections are:
 - S1 - Introduction
 - S2 - The card catalog
 - S3 - Location and arrangement of the card catalog
 - S4 - Corporate authors
 - S5 - The added entry and series cards.
 - S6 - Drawer arrangement
 - S7 - Filing rules
 - S8 - Subject headings
 - S9 - See and see also references

4. The user is asked to respond to questions about how he likes the program, how he thinks it could be improved, etc. This input is necessary, but confidential, for revision of the program at a future date. If the user has indicated his correct name, the author of the program, Richard Wood, may contact the user, if he is willing, for further input.

How to Read a Catalog Card



- A - The call number. This number also appears on the spine of the book, and determines the order in which books are placed on the shelves.
- B - The author's name.
- C - The title of the book.
- D - The number of pages in the book.
- E - Notes giving important information about the book.
- F - The place of publication.
- G - The date of the book's publication.
- H - The name of the publisher.
- I - The height of the book in centimeters.
- J - A list of additional names and terms under which this card will be filed in the card catalog.

J398.8
C139

Cakes and custard : children's rhymes /
chosen by Brian Alderson and
illustrated by Helen Oxenbury. New
York : Morrow ; 1975.
156 p. : ill. (chiefly col.) ; 25
cm.
Includes index.

card 1

1. Nursery rhymes. 2. Children's
poetry. I. Alderson, Brian W.
II. Oxenbury, Helen.

PSrS

SRSIdc

CHILDREN'S POETRY.

J398.8
C139

Cakes and custard : children's rhymes /
chosen by Brian Alderson and
illustrated by Helen Oxenbury. New
York : Morrow ; 1975.
156 p. : ill. (chiefly col.) ; 25
cm.

card 2

1. Nursery rhymes. 2. Children's
poetry. I. Alderson, Brian W.
II. Oxenbury, Helen.

PS-S

SFSIdc

Oxenbury, Helen.

J398.8
C139

Cakes and custard : children's rhymes /
chosen by Brian Alderson and
illustrated by Helen Oxenbury. New
York : Morrow ; 1975.
156 p. : ill. (chiefly col.) ; 25
cm.

card 3

1. Nursery rhymes. 2. Children's
poetry. I. Alderson, Brian W.
II. Oxenbury, Helen.

PSrS

SRSIdc

NURSERY RHYMES.

J398.8
C139

Cakes and custard : children's rhymes /
chosen by Brian Alderson and
illustrated by Helen Oxenbury. New
York : Morrow ; 1975.
156 p. : ill. (chiefly col.) ; 25
cm.

card 4

Abortion and the sanctity of human
life

HO
767.5
US
B76

Brody, Baruch A.
Abortion and the sanctity of human
life : a philosophical view / Baruch
Brody. Cambridge, Mass. : MIT Press,
[1975]
162 p. ; 21 cm.

card 5

1. Abortion--United States.
I. Title

PSrS

SRSSdc

75-4662

ABORTION--UNITED STATES.

HO
767.5
US
B76

Brody, Baruch A.
Abortion and the sanctity of human
life : a philosophical view / Baruch
Brody. Cambridge, Mass. : MIT Press,
[1975]
162 p. ; 21 cm.

card 6

1. Abortion--United States.
I. Title

PSrS

SRSSdc

75-4662

CARD CATALOG

Sampling of drawers and labels.

1 A - ABEM	8 ADO - ADUZ	15 AGE - AGRAM	22 ALG - ALH
2 ABEN- ABZ	9 ADVA - ADUENS	16 AGRAM - Agri- culture C	23 ALI - ALLEM
3 ACA - ACORD	10 ADVENT - AER	17 Agriculture D - AIDL	24 ALLEN - ALLR
4 ACORE - ACS	11 AES - AFRICA C	18 AIDM - AKAL	25 ALLS - ALTEM
5 ACT - ADAL	12 AFRICA D - AFRICA R	19 AKAM - ALB	26 ALTEN - AMEM
6 ADAM - ADB	13 AFRICA S- AFRICA Z	20 ALC - ALD	27 AMEN - AMERICA S
7 ADC - ADN	14 African - AGD	21 ALE - ALF	28 AMERICA T - AMERICAN A

card 18

Microfilm

ACS Drake, Benjamin, 1794-1841.
 Reel The life and adventures of Black Hawk: with sketches of
 85.6 Keokuk, the Sac and Fox Indians, and the late Black Hawk
 war. By Benjamin Drake. 7th ed. improved. Cincinnati, G.

card 17

A fox in the house. title card

JF (title repeated twice)

F7905f Fox, Charles Philip
 A fox in the house; story and photos. by Charles Philip
 in center Fox. Reilly & Lee. 1966

card 16

JF Fox and the fire.
 M643f Miles, Miska.
 IM Center Fox and the fire. Illustrated by John Schoenherr. 1st
 ed., Boston, Little, Brown, 1966,

card 15

PZ The fox and the camellias.
 3 Silone, Ignazio, 1900-
 S5855 The fox and the camellias. Translated from the Italian
 Fp by Eric Mosbacher. New York, Harper, 1961,

card 14

The fox.
 PR Lawrence, David Herbert, 1885-1930.
 6023 The captain's doll; three
 A83 novelettes. New York, T. Seltzer,
 C3 1923.
 323 p.

author card

card 13

ML
 60 Fox-Strangways, Arthur Henry, 1859-1948.
 F78 Music observed, by A. H. Fox-Strangways. The selection
 MQ by L. Stewart Wilson. Freeport, N. Y., Books for Li-

card 12

Fox-Strangways, Arthur Henry, 1859-1948.
 ML Cecil Sharp
 423 Karpeles, Maud.
 S45 Cecil Sharp; his life and work. Chicago, University of
 K376 Chicago Press, 1967,

will 928 n. illus. facsim., ports. 28 cm.

card 11

CR
 23 (Compound last name;
 F7 filed after single surname)
 1971 Fox-Davies, Arthur Charles, 1871-1928.
 Heraldry explained. Introduced by L. G. Pine. Rut-

card 10

Class No.	AUTHOR	BOOK ON ORDER
List Price	TITLE	
16.50		

card 9

Fox, H., tr. added entry card
 JN
 8395 Hermet, Guy.
 C6 The Communists in Spain; study of an
 H462 underground political movement.

card 8

DK
 26 Loubat, Joseph Florimond, duc de, 1831-

card 7

E
 591 FOX, GUSTAVUS VASA, 1821-1883
 F79 Fox, Gustavus Vasa, 1821-1883.
 Confidential correspondence of Gustavus Vasa Fox, assistant
 secretary of the navy, 1861-1865, edited by Robert Means
 Thompson and Richard Wainwright ... New York, Printed

521.5
G4 Foxfire. (Holdings card)
F6

card 30

LIBRARY HAS:

Vol. or No.	Period Covered	Vol. or No.	Period Covered	Vol. or No.	Period Covered	Vol. or No.	Period Covered
1							
2							

card 29

N
6763 Varty, Kenneth. FOXES IN ART (Subject as a phrase)
V3
1967 Reynard the Fox: a study of the fox in medieval English art. New York, Humanities Press, 1967.
169 p. col. front, 98 plates (incl. facsimiles)

card 28

y599
D847r Dudley, Ernest. FOXES - HABITS AND BEHAVIOR (Subject is hyphenated to show subdivision)
H Center Rufus; the remarkable true story of a tamed fox. New York, Hart Pub. Co., 1972.
124 p. illus. 22 cm. \$1.25

card 27

JF
F8545b Freeman, Barbara Constance. FOXES - FICTION
Broom-Adelaide; written and illus. by Barbara C. Freeman. Little 1965

card 26

BR
1600 Haller, William, 1885- FOXE'S BOOK OF MARTYRS AND THE ELECT NATION. (title card)
F
H
1 QL
Burrage, Roger. FOXES - BEHAVIOR

card 25

card 24

J599
R593f Ripper, Charles L. FOXES AND WOLVES. (title card)
Foxes and wolves; written and illus. by Charles L. Ripper.

card 23

FOXES
J599
R593f Ripper, Charles L. FOXES AND WOLVES. (title card)
Foxes and wolves; written and illus. by Charles L. Ripper.

card 22

FOXES
J599.7
G688h Goudey, Alice E. 1898-
MICRO-FILM
Illustrated by Garry Mac-

card 21

EEB
R1. 933 A blowe for the pope, touching the prerogatives. Extracted
FOX SQUIRREL

card 20

SK
341
S7
M3 Madson, John. FOX SQUIRREL. East Alton, Ill., Conservation
Gray and fox squirrels. East Alton, Ill., Conservation
1964

card 19



Subdivisions Under Place Names

Since no geographical heading in the printed headings list shows all possible subdivisions appropriate to that category, we are listing all subdivisions which can be applied to names of (1) regions, countries, provinces, etc., and (2) cities.

I

UNDER REGIONS, COUNTRIES, STATES, ETC.

Abstracting and indexing
Abstracts
Addresses, essays, lectures
Administrative and political divisions
Aerial exploration
Aerial photographs
Air defenses
Air defenses, Civil
Air defenses, Military
Altitudes
Anecdotes, facetiae, satire, etc.
Annexation to [name of country]
Anniversaries, etc.
Antiquities
Appropriations and expenditures
Armed Forces
Bibliography
Bio-bibliography
Biography
Biography—Anecdotes, facetiae, satire, etc.
Biography—Portraits
Blizzard, [year]
Book reviews
Boundaries
Census, [year]
Centennial celebrations, etc.
Charters
Charters, grants, privileges
Church history
Civil defense
Civilization
Climate
Clubs
Coast defenses
Collected works
Colonies
Colonization
Commerce
Commercial policy
Congresses
Constitutional history
Constitutional law
Courts and courtiers
Cyclone, [year]
Defenses
Description and travel
Description and travel—Aerial
Description and travel—Guide-books
Description and travel—Tours
Description and travel—Views
Dictionaries and encyclopedias
Diplomatic and consular service
Diplomatic and consular service—Privileges and immunities
Directories
Directories—Telephone
Discovery and exploration
Distances, etc.
Drama
Economic conditions
Economic integration
Economic policy
Emigration and immigration
Executive departments
Exiles
Exploring expeditions
Fairs
Famines
Fiction
Foreign economic relations
Foreign opinion
Foreign population
Foreign relations
Foreign relations administration
Forest policy
Frontier troubles
Gazetteers
Genealogy
Gentry
Gold discoveries
Government property
Government publications
Government vessels
Governors
Historical geography
Historical geography—Maps
Historiography
History
History—Anecdotes, facetiae, satire, etc.
History—Prophecies
History—Sources
History, Comic, satirical, etc.
History, Local
History, Military
History, Naval
Hurricane, [year]
Hurricanes
Imprints
Industries
Intellectual life
International status
Juvenile drama
Juvenile fiction
Juvenile films
Juvenile literature
Juvenile phonorecords
Juvenile poetry
Kings and rulers
Languages
Learned institutions and societies
Literary collections
Literatures
Manufactures
Maps

Duty-free importation of automobiles
(Direct)
 xx Tariff on automobiles

Duty-free importation of birds *(Direct)*
 x Birds—Tariff

Duty-free importation of boats *(Direct)*
 x Boats and boating—Tariff

Duty-free importation of containers *(Direct)*
 x Containers—Tariff

Duty-free importation of copper *(Direct)*
 xx Tariff on copper

Duty-free importation of goods in transit
 See **Duty-free transit**

Duty-free importation of machinery *(Direct)*
 x Machinery—Tariff

Duty-free importation of medical equipment *(Direct)*
 x Duty-free importation of surgical equipment
 xx Duty-free importation of scientific equipment
 Tariff on medical instruments and apparatus
 Tariff on surgical instruments and apparatus

Duty-free importation of pallets *(Direct)*
 x Pallets (Shipping, storage, etc.)—Tariff

Duty-free importation of relief supplies *(Direct)*
 xx International relief

Duty-free importation of samples *(Direct)*
 x Samples (Commerce)—Tariff
 Tariff on samples

Duty-free importation of scientific equipment *(Direct)*
 ss Duty-free importation of medical equipment
 xx Tariff on scientific apparatus and instruments

Duty-free importation of surgical equipment
 See **Duty-free importation of medical equipment**

Duty-free importation of wrapping materials *(Direct)*
 x Wrapping materials—Tariff

Duty-free transit *(Direct)*
 x Duty-free exportation of goods in transit
 Duty-free importation of goods in transit
 Goods in transit, Tariff on
 Merchandise in transit, Tariff on
 xx Free ports and zones
 Tariff—Law

Dvaita (Sankhya)
 See **Sankhya**

Dvaita (Vedanta)
 xx Hinduism
 Pantheism
 Philosophy, Hindu
 Vedanta

Dwamish Indians (E99.D9)
 xx Indians of North America

Dwarf conifers
 x Dwarf trees

Dwarf elm
 See **Siberian elm**

Dwarf fruit trees (SB357.5)
 x Dwarf trees
 xx Fruit-culture
 Fruit trees
 Trees

Dwarf mistletoe
 x American mistletoe
 Dwarfmistletoe
 xx Mistletoe

Dwarf novae (QB843.D85)
 x Novae, Dwarf

xx Dwarf stars
 Stars, Variable

Dwarf pea
 See **Chick-pea**

Dwarf stars
 ss Dwarf novae
 Red dwarfs
 White dwarfs
 x Low-luminosity stars
 xx Stars

Dwarf trees
 See **Bonsai**
 Dwarf conifers
 Dwarf fruit trees

Dwarf vegetables
 See **Midget vegetables**

Dwarfism
 xx Growth disorders

Dwarfmistletoe
 See **Dwarf mistletoe**

Dwarfs (Ethnography, GN681; Folk-lore, GR555; Somatology, GN69.3-5)
 ss Pygmies
 x Midgets
 xx Deformities
 Folk-lore
 Monsters
 Pygmies
 — Personal narratives (GN69.5)

Dwarfs in art
 xx Art

Dwarfs in literature

Dwelling-terraces
 See **Terrace houses**

Dwellings (Direct) (Architecture, NA7100-7566; Building: popular works, TH148; Building maintenance, TH8901; Domestic economy, TX301-339; Economics, HD1341; Folk-lore, GR490; Manners and customs, GT170-384)
 General works and works on dwellings in the United States are entered under this heading without subdivision. Works on dwellings in other countries are entered under **Dwellings—country subdivision, e.g. Dwellings—Greece.**
 ss Adobe houses
 Apartment houses
 Architecture, Domestic
 Attics
 Bathrooms
 Brick houses
 Bungalows
 Cave-dwellings
 Children's rooms
 Cliff-dwellings
 Clothes closets
 Concrete houses
 Cottages
 Country homes
 Dining rooms
 Domestic engineering
 Earth houses
 Farmhouses
 Fishing lodges
 Grass huts
 House construction
 Igloos
 Indians—Dwellings
 Indians of Central America—Dwellings
 Indians of North America—Dwellings
 Labor and laboring classes—Dwellings
 Lake-dwellers and lake-dwellings
 Log cabins
 Mobile homes
 Pit houses

Prefabricated houses
 Recreation rooms
 Row houses
 Single story houses
 Sod houses
 Solar houses
 Stone houses
 Suburban homes
 Summer homes
 Tree-dwellings
 Yurts
 x Houses
 Residences

Example under Buildings
 — Air conditioning
 x Home air conditioning
 xx Domestic engineering
 — Caricatures and cartoons
 — Costs
 See **Dwellings—Estimates and costs**
 — Estimates and costs
 x Dwellings—Costs
 — Fires and fire prevention (TH9445.D8)
 — Heating and ventilation
 x Dwellings—Ventilation
 xx Domestic engineering
 — Law and legislation
 See **Heating—Law and legislation**
 — Juvenile literature
 — Layout
 See **Room layout (Dwellings)**
 — Lighting
 xx Domestic engineering
 — Maintenance and repair
 xx House construction
 Example under **Maintenance**
 — Prices *(Direct)*
 — Psychological aspects
 xx Man—Influence of environment
 — Religious aspects (GN414.A1)
 — Remodeling
 ss Kitchens—Remodeling
 x Remodeling (Architecture)
 Remodeling of dwellings
 xx House construction
 — Costs *(Direct)* (TH4816)
 — Sounds
 See **Household sounds**
 — Testing (TH4811)
 — Transportation
 — Ventilation
 See **Dwellings—Heating and ventilation**

GEOGRAPHIC SUBDIVISIONS

— Greece
 Note under **Dwellings**

Dwellings (for religion, folk-lore, etc.)
 x Folk-lore of dwellings
 xx Religion, Primitive

Dwellings in literature

Dyabarma (African people)
 See **Zarma (African people)**

Dyak language (PL5301-4)
 ss Maanyan language
 Ngadju dialects
 x Dajak language
 Dayak language
 xx Malayan languages

Dyaks (DS646.32.D9)
 ss Ibans (Bornean people)
 Maanyans (Bornean people)
 Missions to Dyaks
 x Dayaks
 xx Ethnology—Borneo
 Malay race
 — Pictorial works
 — Religion

- House organs (Direct). (HF6121.H6)**
 Here are entered works treating of the history, purpose, etc. of periodical publications published by individual business concerns to disseminate information promoting their interests and success. Works on periodical publications issued by employees and devoted to their interests are entered under the heading *Employees' magazines, handbooks, etc.*
- xx Advertising—Periodicals
 - Business—Periodicals
 - Journalism, Technical
 - Note under Employees' magazines, handbooks, etc.*
- House organs, Interior**
See Employees' magazines, handbooks, etc.
- House painting (TT320.324)**
- xx Painting, Industrial
 - Texture painting
 - xx House construction
 - Painting, Industrial
- Note under Do-it-yourself work*
- Amateurs' manuals (TT320)
 - Contracts and specifications (TT320)
 - Defects
 - Equipment and supplies
 - Drawing
 - See House painting—Equipment and supplies—Drawings*
 - Drawings
 - x House painting—Equipment and supplies—Drawing
 - xx Mechanical drawing
 - Estimates (TT320)
 - Tropical conditions
 - x Tropical house painting
 - Example under Tropics; and under reference from Tropical conditions*
 - Vocational guidance
- House plans**
See Architecture, Domestic—Designs and plans
- House plants (SB419)**
- xx Artificial light gardening
 - Foliage plants
 - Gardens, Miniature
 - Hanging plants
 - Plants, Potted
 - Wardian cases
 - Window-gardening
 - xx Botany
 - Container gardening
 - Floriculture
 - Plants
 - Window-gardening
 - Diseases and pests (Indirect) (SB608.H84)
 - Juvenile literature
 - Pictorial works
- House plants in interior decoration**
- xx Flower arrangement
 - Interior decoration
- House purchasing**
See House buying
- House sanitation**
See Sanitation, Household
- House selling**
- xx House buying
 - xx House buying
 - Real estate business
- House sparrow**
See English sparrow
- House spirits**
See Household shrines
- House style**
See Industrial design coordination
- House-to-house fighting**
See Street fighting (Military science)
- House trading**
See Trade-in housing
- House-tree-person technique (BF698.8.H6)**
- x H-T-P test
 - xx Projective techniques
- Houseboats**
See House-boats
- Housefly (QL537.M7; RA641.F6)**
- x House fly
 - xx Flies
 - Behavior
 - Control
 - See Housefly control*
 - Extermination
 - See Housefly control*
- Housefly control (Indirect) (RA641.F6)**
- x Housefly—Control
 - Housefly—Extermination
- Housefurnishings industry and trade**
See House furnishings industry and trade
- Household appliances**
- xx Irons (Pressing)
 - Salesmen and salesmanship—Household appliances
 - x Domestic appliances
 - Home appliances
 - Household equipment
 - Household goods
 - xx Home economics
 - House furnishings
 - Collectors and collecting (Direct)
 - Juvenile literature
 - Maintenance and repair
 - Problems, exercises, etc.
 - Terminology
- Household appliances, Electric (Direct) (Economics, HD9697; Technology, TK7018-7301)**
- xx Electric blankets
 - Electric irons
 - Electric water heaters
 - Floor polishing machines
 - Vacuum cleaners
 - x Domestic electric apparatus
 - Electric apparatus and appliances, Domestic
 - Electric household appliances
 - xx Electric apparatus and appliances
 - Home economics
- Example under Electric industries*
- Accounting
 - Amateurs' manuals
 - See Electric apparatus and appliances—Amateurs' manuals*
 - Maintenance and repair (TK7018; Amateurs' manuals, TK9901)
 - Vocational guidance
 - Marketing
 - Noise
 - Prices (Direct)
 - Safety measures
 - Standards
 - Testing (TK7018)
- Household budgets**
See Home economics—Accounting
- Household equipment**
See Household appliances
- Household expenses**
See Cost and standard of living
- Household goods**
See Household shrines
- Household goods**
See House furnishings
- Household appliances**
 Kitchen utensils
- Household goods carriers**
See Storage and moving trade
- Household linens**
- xx Bedding
 - Drapery
 - Table-cloths
 - x Household textiles
 - Linens, Household
 - xx Home economics
 - Textile industry and fabrics
 - Storage
- Household management**
See Home economics
- Household moving**
See Moving, Household
- Household pests (Indirect) (TX325)**
- xx specific pests, e.g. Cockroaches, Flies
 - x Vermin
 - xx Home economics
 - Insects, Injurious and beneficial
 - Pests
- Household repairs**
See Repairing—Amateurs' manuals
- Household safety**
See Home accidents—Prevention
- Household sanitation**
See Sanitation, Household
- Household science**
See Home economics
- Household shrines**
- xx Lares
 - x House spirits
 - Household gods
 - xx Religion, Primitive
 - Shrines
- Household sounds**
- x Dwellings—Sounds
 - Honic sounds
 - Home—Sounds
 - xx Sounds
- Household supplies**
- x Domestic supplies
 - Supplies, Household
- Household textiles**
See Household linens
- Household utensils**
See Implements, utensils, etc.
- Household workers**
See Servants
- Housekeepers, Visiting**
See Visiting housekeepers
- Housekeeping**
See Home economics
- Housekeeping, Industrial**
See Industrial housekeeping
- Housekeeping service (Social work)**
See Visiting housekeepers
- Housemaids**
See Servants
- Housemothers**
- xx Residence counselors
 - x House mothers
 - Matrons of dormitories
 - xx Children—Institutional care
 - Dormitories—Staff
- Houses**
See Architecture, Domestic
- Dwellings
- Houses, Adobe**
See Adobe houses
- Houses, Apartment**
See Apartment houses
- Houses, Brick**
See Brick houses
- Houses, Concrete**
See Concrete houses

Spain
 -- History (DP1-402)
 -- Civil War, 1936-1939
 -- Legal aspects (Continued)
 See Spain—History—Civil War, 1936-1939—Law and legislation
 -- Literature and the war
 x Spanish Civil War in literature
 xx War and literature
 -- Museums
 -- Naval operations
 -- Negroes
 -- Periodicals
 -- Personal narratives
 -- Pictorial works
 -- Poetry
 -- Portraits
 -- Posters
 -- Prisoners and prisons
 -- Refugees
 Example under Refugees, Political
 -- Registers of dead
 -- Religious aspects
 -- Secret service
 -- Songs and music
 -- Sources
 -- Women's work
 -- 1939- (DP270)
 -- History, Military
 Note under Trophies, Military
Spain. Armada
 xx Seamen
 Example under Armaments
Spain. Ejército
 -- Commissariat
 x Rations
 -- Pay, allowances, etc.
 Example under reference from Soldiers—Pay, allowances, etc.
 -- Recruiting, enlistment, etc.
 Example under Military service, Compulsory; Recruiting and enlistment
 -- Transportation
 xx Pack transportation
Spain in art
Spain in literature (PN56.S)
SPAN (Electronic computer system)
 x Statistical Planning and Analysis System
Spaniards (DP48-53)
Spaniards in America, (Cuba, Florida, etc.)
 -- Legal status, laws, etc.
Spaniards in Greece
 x Catalans in Greece
Spaniels (SF429.S7)
 as Brittany spaniels
 Cavalier King Charles spaniels
 Cocker spaniels
 Drentschè patrijshond
 English springer spaniels
 Irish water spaniel
 Japanese spaniels
 Papillons (Dogs)
 Pekingese spaniels
Spaniol language
 See Ladino language
Spanish America
 See Latin America
Spanish American . . .
 as Latin American . . .
 x Hispanic American . . .
 xx Latin American . . .
Spanish American ballads and songs
 (Collections, PQ7082.P7)
 as Argentine (Cuban, Mexican, etc.) ballads and songs
 xx Spanish ballads and songs

Spanish American consumers
 See Spanish Americans as consumers
Spanish American fiction (Collections, PQ7083; History, PQ7082)
 xx Spanish fiction
Spanish American literature (PQ7081-8560)
 as America—Literatures
 Argentine literature
 Bolivian literature
 Central American literature
 Chilean literature
 Colombian literature
 Cuban literature
 Ecuadorean literature
 Guatemalan literature
 Honduran literature
 Mexican literature
 Peruvian literature
 Puerto Rican literature
 Uruguayan literature
 Venezuelan literature
 xx America—Literatures
 American literature
 Spanish literature
Spanish American newspapers (PN4960; Bibliography: United States, Z6953.5.S; other countries, Z6954)
 xx American newspapers
 Spanish newspapers
Spanish American orations (PN4950; Bibliography: United States, Z6954.5.S; other countries, Z6954)
 xx American periodicals
 Spanish periodicals
Spanish American poetry (Direct) (Collections, PQ7084; History, PQ7082.P7)
 as Negro poetry (Spanish American)
 xx American poetry
 Spanish poetry
Spanish American prose literature (PQ7085)
 xx Spanish prose literature
 Spanish American War, 1898
 See United States—History—War of 1898
Spanish American wit and humor (PN6213-6215)
 xx Spanish wit and humor
Spanish Americans (F1409)
Spanish Americans as consumers (Direct)
 x Spanish American consumers
 xx Consumers
Spanish Americans in Austria, (Italy, Paris, etc.)
 -- Biography
 -- Juvenile literature
 -- Education
 -- Employment
 -- Juvenile literature
 -- Pictorial works
Spanish-Arabic poetry
 See Mozarabic poetry
Spanish architecture
 See Architecture, Spanish
Spanish Armada
 See Armada, 1588
Spanish arms and armor
 See Arms and armor, Spanish
Spanish art
 See Art, Spanish
Spanish bagpipe
 See Gaits
Spanish ballads and songs (Collections, PQ6195-6205; PQ6210; History, PQ6089-6091)
 as Ballads, Spanish
 Folk-songs, Spanish
 Ladino ballads and songs

National songs, Spanish
 Political ballads and songs, Spanish
 Songs, Spanish
 Spanish American ballads and songs
Spanish; bronzes
 See: Bronzes, Spanish
Spanish broom (SB317.S)
 x Broom, Spanish
 xx Fibers
Spanish chronology
 See Chronology, Spanish
Spanish Civil War in literature
 See Spain—History—Civil War, 1936-1939
 -- Literature and the war
Spanish Civil War in motion pictures
 xx Moving-pictures
 Spain—History—Civil War, 1936-1939
Spanish civilization
 See Civilization, Hispanic
 Spain—Civilization
Spanish drama (Direct) (Collections, PQ6217-6241; History, PQ6099-6129)
 as Catalan drama
 Spanish farces
 -- To 1500
 -- Classical period, 1500-1700
 as Entremés
 -- 18th century
 -- 19th century
 -- 20th century
Spanish drama (Comedy) (Collections, PQ6233; History, PQ6120)
 as Entremés
Spanish drama (Tragedy)
 Spanish-English War . . .
 See Anglo-Spanish War . . .
Spanish Era (Chronology) (CE61.S7)
 xx Chronology, Spanish
Spanish essays (Collections, PQ6260; History, PQ6150)
 Here are entered collections of essays by several authors.
Spanish farces
 as Catalan farces
 Entremés
 xx Farces
 Spanish drama
Spanish fever
 See Texas fever
Spanish fiction (Direct) (Collections, PQ6251-7; History, PQ6138-6147)
 as Historical fiction, Spanish
 Spanish American fiction
 -- To 1500 (Collections, PQ6253; History, PQ6141)
 -- Classical period, 1500-1700
 GENERAL SUBDIVISIONS
 -- Competitions
 as Premio Ciudad de Barbastro
 Premio Planeta
 GENERAL SUBDIVISIONS
 -- Translations into Italian
 Note under Translations
Spanish fir
 xx Fir
Spanish Florida claims (F314; In Seminole War, F83.817)
 xx Claims
 Seminole War, 1st, 1817-1818
Spanish-French War, 1635-1639
 See Franco-Spanish War, 1635-1639
Spanish-French War, 1667-1668
 See Devolution, War of, 1667-1668
Spanish guitar
 See Guitar

CARD CATALOG CAI PROGRAM
EVALUATION FORM

EVALUATION OF THE CARD CATALOG COMPUTER-ASSISTED INSTRUCTION PROGRAM

Please answer the following questions in order to aid the author in developing an instructional unit which can better teach basic card catalog skills to undergraduate students at Slippery Rock State College.

1. Is this the first time you have experienced a computer-assisted learning program? Yes No (How many times?) _____

2. Considering that the objective of the program is to teach card catalog skills to undergraduate students, evaluate the program in terms of the following qualities: (Circle your rating)

<u>Clarity:</u>	Excellent	Good	Fair	Poor
<u>Organization:</u>	Excellent	Good	Fair	Poor
<u>Difficulty level:</u>	Excellent	Good	Fair	Poor
<u>Comprehensiveness:</u>	Excellent	Good	Fair	Poor
<u>Speed:</u>	Excellent	Good	Fair	Poor
<u>Feedback:</u>	Excellent	Good	Fair	Poor
<u>Usefulness:</u>	Excellent	Good	Fair	Poor
<u>Student participation:</u>	Excellent	Good	Fair	Poor
<u>Stimulation:</u>	Excellent	Good	Fair	Poor
<u>Amount of instruction:</u>	Excellent	Good	Fair	Poor
<u>Quality:</u>	Excellent	Good	Fair	Poor

3. Does the program accomplish its goal? Yes No

4. How could the program be improved?

CAL PROGRAM EVALUATION DATA

<u>Attributes</u>	<u>Scores</u>			<u>Mean total</u>
	<u>Librarians</u>	<u>Library Science Majors</u>	<u>Undergraduate Students</u>	
Clarity	3.4	3.4	3.1	3.3
Organization	4.0	3.8	3.8	3.9
Difficulty	3.4	3.0	3.3	3.2
Comprehensiveness	3.4	3.6	3.8	3.6
Speed	3.4	3.6	3.4	3.5
Feedback	2.8	3.6	3.4	3.3
Usefulness	4.0	4.0	3.8	3.9
Participation	2.8	3.6	3.3	3.2
Stimulation	3.4	3.0	3.1	3.2
Amt./Instruction	3.2	3.0	4.0	3.4
Quality	<u>3.6</u>	<u>3.6</u>	<u>3.8</u>	<u>3.7</u>
	3.4	3.4	3.5	3.4

Does the program accomplish its goal? 25-yes (unanimous)

Is this the first time you have experienced a CAL program? 19-yes, 6-no (one librarian, one library science major, four students.)

COMMENTS:

"Could be longer--more comprehensive. Easier sign-on." (librarian)

"Increase number of responses students need to make--needs much more feedback opportunity. But definitely an excellent program--requires little development.

Phraseology could be improved in many places--favor shorter, less complex statements." (librarian)

"Overall rating is good to excellent. Could be improved by adding a section about how to use the LC system to find books. Student participation or chance for feedback is good in the beginning but decreases toward the end. I like the idea of being able to begin at different sections. Ask more questions, perhaps, of students and have the answers teach." (librarian)

"Provide more student participation which should also stimulate a student. An explanation of the Library of Congress Classification is missing. Let students who miss a question have a remedial type of question, or series of short explanations with multiple questions." (librarian)

"a) more participation, b) more questions, c) simpler explanations (librarian)

"I don't like to have an explanation of something I already know. I would like to be able to go ahead as well as back." (Library Science major)

"Explain: Library of C. classification, Standard subject headings, where folio books are, how a book is catalogued, how books are shelved." (Library Science major)

"More stimulating questions are needed." (undergraduate)

"Hard to read type." (undergraduate)

"Too difficult to refer to manual--must keep it on my lap or floor. Needs more questions. Explain why an answer is wrong and follow up with another question." (undergraduate)

"Hard to use the terminal and see the print." (undergraduate)

"Have CRT's available--easier to read." (undergraduate)

"I learned a lot." Goes to fast at times." (undergraduate)

"Student should know what a card catalog is--that section is not needed in so much detail. I wanted to know more about subject headings." (undergraduate.)

"Some explanations are too lengthy--shorten to improve speed. Should be no more than one hour long." (undergraduate)

"Takes too long at one sitting." (undergraduate)

"Shorten sign on." (undergraduate)

"Not enough instruction when a answered wrong." (undergraduate)