each group (either initial or follow-up) must be less than 501.

Computer and Language. The program is written in FORTRAN IV and employs several dimensionless subroutines. Although developed for the IBM 7094, versions of this program have also been adapted for use on the IBM 360, IBM 370, CDC 6500, and CDC 6600.

Availability. A listing and/or copy of the source deck, a manual for input instructions, and sample data may be obtained at no cost from Mark C. Fulcomer, Department of Psychology, New York University, 4 Washington

Place, New York, New York 10003. The materials desired and the computer to be used should be specified.

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SICS: Short intradepartmental course scheduler

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The SICS program does within-department course scheduling in instructional (e.g., university) settings. Starting with lists of courses that are to be offered and time slots available, the program matches both course and time preferences expressed by the instructors. The likelihood of obtaining desired course and time selections is directly related to the order in which these choices are entered. This system provides maximum flexibility in that the ordering of this input may be varied in accord with the wishes of the faculty. Thus, some departments may wish to give priority to instructors on the basis of rank and length of service, while others may desire matches made either on a first-come, first-served basis or in some other manner.

At the beginning of the process, three course choices and three time selections are solicited from each instructor for each of the *number* of courses for which he is responsible. (To avoid scheduling more than one course at a particular time for a specific instructor, it is important to avoid overlap in the time choice list for any instructor having more than one course scheduled on any single computer run).

The program accepts a parameter indicating the maximum number of classes to be scheduled at any one time. SICS begins processing by reading in the time slots which are available for courses and the courses and sections to be taught for the semester involved. The courses and sections are entered numerically in ascending order of course number (and within courses of section number). Next, the choices of one instructor (for one of his course responsibilities) are processed. Course choices have priority over time choices (i.e., course selections are matched first). When course and time are processed (either by their assignment or via an indication of inability to fill the options), the next instructor's selections are processed.

While some scheduling may still be done by hand, use of SICS has significantly reduced the amount of time that faculty members must spend in course scheduling within this department.

Limitations. Currently, the program operates with a maximum of 100 course-section combinations and 100 time slots. Each instructor may have three choices for course and for time. There is an option for declaring a time slot as "required." This allows only one course (e.g., departmental seminar) to be scheduled at a particular hour. The option is activated on a course card and thus the program selects the time slot.

Computer and Language. Similar programs have been prepared for and run on IBM 1620 and IBM 360-50 computers in FORTRAN IV.

Input. Card input is composed of a number of segments. First, a parameter card provides basic information on days and day sequences for courses. A second parameter card provides information on the maximum number of classes which may be assigned during any one time slot. A subsequent set of cards provides information on the time slots available (to be filled). This is followed by a set of cards indicating courses to be offered. Finally, information is provided regarding the instructors and their choices. Because many of these pieces of information vary little from term to term (for any department), sets of input cards can often be prepared beforehand and revised and reused as needed.

Output. Output consists of a schedule showing course, section, days, time, and instructor. This is followed by a list of instructors without courses (if any exist), and a similar list of courses without instructors. SICS then produces a list of time slots still available for use.

Availability. A program listing and documentation are available from Sally A. Flanik, Department of Psychology, Howard University, Washington, D.C. 20001. The program is available at a cost of \$2 (to cover postage and handling) for either a listing or a tape of the program. The tape used may be standard or nonstandard label, 9-track, 800 BPI. The tape will be written with BCD code and should be supplied by the purchaser. Please make checks payable to Sally A. Flanik.