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DECUS NO.	12-52
TITLE	STUDENT TEST ANALYSIS
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SOURCE LANGUAGE	FOCAL 4K

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STUDENT TEST ANALYSIS

DECUS Program Library Write-up DECUS NO. 12-52

PROGRAM ABSTRACT:

This is a three-part program to score and do item analysis of student responses. Part I of the program scores parts of the exam. It prints out the student's number and his score on that part of the exam along with the percentage of the class making the correct answer. Part II takes the scores of all parts of the exam and prints out: (1) the student's number and his overall score, (2) the class mean and standard deviation, (3) the decile distribution in terms of percentage of class, (4) a plot of the decile distribution. Part III of the program computes the distribution of answers, in terms of percentage of class, to a given question for each part of the exam. Printout is (1) question number, (2) choice number, (3) % of class making that choice, (4) answer key.

Data is inputted using punched paper tape. The format is: answer key part 1, student data part 1, key part 2, student data part 2, etc. Key data is entered as follows: (1) total number of questions on that part of the exam, (2) answers, (3) total number of students taking that part of the exam. Student data is as follows: (1) student number, (2) student answers for that part of exam. Spaces or slashes may be used as data terminators. Student numbers do not have to be entered sequentially, although printout of these numbers is sequential.

Although the program is divided into 3 parts to make room for data, a patch is also required to read the paper tape to prevent the input buffer from overflowing:

Location	From	To
63	2676	1354
64	2666	2414
2732	6001	5336
2762	6046	7000
6324	1037	6011
6325	7700	7410