

11-1977

ATTITUDE CHANGE EXHIBITED BY LONGWOOD COLLEGE STUDENTS WHEN EXPOSED TO A PROGRAM STIMULUS

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Longwood College
Department of Education

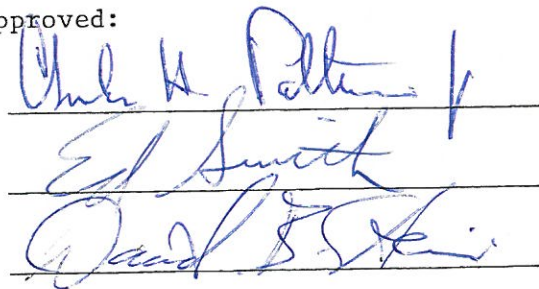
ATTITUDE CHANGE EXHIBITED BY
LONGWOOD COLLEGE STUDENTS WHEN
EXPOSED TO A PROGRAM STIMULUS

by

Timothy Carter Brown

A Thesis submitted to the
Department of Education
in partial fulfillment of the
requirements for the degree of
Master of Science

Approved:


The first signature is "Charles H. Patton", the second is "Ed Smith", and the third is "David B. Smith".

November, 1977

ACKNOWLEDGEMENTS

I would like to thank Dr. Edward Smith for his valuable assistance. Also deserving of special thanks is Mrs. Linda McDaniel whose skill in computer programming and patience in typing was greatly appreciated.

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CHAPTER I
INTRODUCTION

The importance of the residence hall and its program of activities on the attitudes of college students has been acknowledged by a number of researchers. Phillip Coombs' thesis is that the degree of satisfaction with the output of the educational system determines the input to the system (Coombs, 1968). In other words, attitudes of college students toward the myriad of academic, interpersonal, environmental and physical factors comprising what we know as an "educational institution" determine the level of involvement of the student in the college. Coombs raises the question of a goal conflict between faculty, administrators, students, boards of visitors, and public with each of these groups perceiving different needs and functions of residence halls and associated programming. Each group operates from a different perspective; each views the residence hall as a means to a different end.

While general agreement usually exists regarding overall college purposes and the major thrusts of an academic program, the above groups show little unanimity regarding the functions of the residence hall and its impact upon the total college atmosphere. As Elizabeth Greenleaf has pointed out, "Not all activities need take place within the residence halls, but students can be encouraged and challenged there to participate in total campus programs (Greenleaf, 1969, p. 68)."

A review of the literature has failed to uncover a study which specifically attempts to measure attitudinal change toward the college

environment by a sample of college students after the introduction of a program stimulus such as residence hall programming. Prior research has mainly dealt with five categories:

1. General student perceptions of their environment with no attempt to prove a connection between any specific object, event, or action and this environmental perception.

2. The students' motivations and environmental background and how this background is manifested and modified in college.

3. The purposes of residence hall living and the benefits and drawbacks of differing and non-voluntary physical arrangements, roommate pairing, and interest groupings.

4. The effects of voluntary peer grouping into fraternities, sororities and other organizations.

5. The effect of the "group" itself on attitudes.

The most definitive statement on residence halls remains Harold Riker's monograph, College Housing as Learning Centers. Riker provides a basic discussion of the ways in which college residence halls shape the perceptions and attitudes of students. Although he deals mainly with physical, physiological and staffing variables, he points out that "learning [is not just] a product of the classroom, occurring solely as the result of action and reaction among the teacher, the student and their subject (Riker, 1965, p. 2)." He estimates that seventy-five to ninety-five hours per week are spent in the residence halls versus fifteen to eighteen hours in the classroom environment (Riker, 1965).

Riker was one of the first to establish the connection between environment and behavior, and he then makes the natural transition to the methods by which the environment may be manipulated. He points out that,

beyond the provision of identity and personal security, other stimuli exist which affect student perceptions. Yet, he stops short of addressing affects of specific programming and deals only with staffing variations, traditional operational and counseling programs, and physical maintenance and arrangement options (Riker, 1965).

Riker and others recognized the relationship between the environmental influences of residence hall living and the behavior of the individual and, more importantly, that enrichment of the environment enhances the students' intellectual activity, i.e., learning is a total process of the college community (Chickering, 1967; Riker, 1965). In addition, these monographs provided valuable related information on program suggestions for residence halls and methods to solicit faculty participation and student support.

With Riker's work as a foundation, other researchers began to deal with the need for informal, extra-class programming as a developmental stimulus for the college student. Lawrence A. Pervin pointed to the correlation between the student's informal learning and the affect such learning has upon him as a person (Pervin, 1967). J. R. Clarcq stressed the purpose of the residence hall as a means to bridge the curricular and co-curricular gulf in order to promote the concept of education as the total of all student experience (Clarcq, 1970). These researchers raised and refined the issue of the residence hall as an educational force which demanded attention.

Other research relevant to this study was performed by Don E. Williams and Robert R. Reilley who studied roommate compatability, confirming Pace's 1970 finding that dissatisfied roommates are not as academically successful as compatible roommates. More relevant is their finding that students view the "residence hall environment and the total university environment in much the same way. A comprehensive residence hall program may improve

students' perceptions of the total university environment (Williams and Reilley, 1972, p. 407)." This confirmed the independent findings of C. G. Eberly (1968) and J. A. Centra (1968).

Douglas R. Whitney, David W. Perrin, Robert M. Casse, Jr., and Alvin D. Albertus studied residence hall policies, concluding that there was virtually no affect on academic achievement by variations in the policy options or rule variations under which residence hall students live (Whitney, et. al., 1973). This finding focuses more attention on programming as a stimulus for attitude and performance variations by removing governance policy and rule structure as a valid stimulus for attitude modification. Brian M. Gifford added additional credence to this conclusion by establishing that a residence governing structure was not effective unless coupled with participation by students (Gifford, 1974). In other words, a program stimulus must be operating to result in attitudinal change.

Other researchers have also established the residence hall as a force to be reckoned with in the college environment and have examined this force. Elizabeth Greenleaf recommended that program emphases be three-fold, ". . . orientation to college and the intellectual world, development of activities to provide students with learning experiences, and the integration of residence halls into the academic community (Greenleaf, 1969, p. 67)." In short, residence hall programming is a method of building student support for the entities which comprise a college. Kenneth L. Stoner dealt with environmental factors such as health, safety, citizenship, and recreational opportunities. He states, "A student who resides within a university residence hall must have maximum opportunity personally to identify with this entity not only as a housing facility, but as an

integral part of the total college or university (Stoner, 1969, p. 74)." John E. Shay, Jr., continues, "the primary emphasis in dealing with students should be . . . on getting them to view the residence hall as a social system and not merely as a place to reside (Shay, 1969, p. 77)." Cohesion, properly manipulated, can provide for attitudinal changes when individuality and aloneness fostered by most residence hall structures cannot.

This researcher also reviewed studies specifically dealing with the programming stimulus in order to collect information on program types and methods of implementation. Most helpful was A Model for Program Development by Katherine H. Speare. She suggests that, in order to create an atmosphere which students find exciting and fulfilling, "Programming may be defined as broadly as 'any goal directed behavior' or as specifically as 'a specific behavior which results from a specific planned activity.'" (Speare, 1971, p. 76)." Raymond O. Murphy found "students placed education program effort lowest in their scale of desired activities within the residence halls. Social and recreational programs were distinctly higher choices (Murphy, 1969, p. 62)." Students tend to organize their activities with a minimum of intellectual content, thus automatically defeating the concept that residence halls are anything but retreats from the learning environment of college.

To summarize, researchers have established that the residence hall deserves consideration as an entity which affects students. The students' view of the residence hall environment colors the students' view of the college as a whole. Rule structures and governance types have little effect on academic achievement. Research has not dealt specifically with other performance and attitudinal variables. The majority of research to

date has not been attitudinal but has dealt with grouping, physical facilities, and programs of security and health of students.

Relevant to this study, particularly, are the speculations by prior researchers that residence hall programming may improve student perceptions of the total college environment and may build support for all entities which comprise a college. With these speculations in mind, the residence hall programming schedule used as a stimulus in this research design was established.

With the prior research as a foundation, an experiment was designed to test the affect of a residence hall program stimulus on five measures of student attitudes. The five measures dealt with attitudes towards self, social atmosphere, dormitory, cooperation and communication, and academic atmosphere. Attitudes were measured at the beginning and the end of the fall semester. The experiment also tested for a change in the students' perception of two words: dormitory and residence hall. This represented an attempt to determine if either term was a more positive reference to the students' living space. The program stimulus was in the form of events such as concerts, crafts, interaction sessions with faculty and administrators, and "how-to" learning sessions such as bicycle repair or photography. A total of eighteen events comprised the semester's program. This residence hall program was one semester in duration, took place entirely in the residence halls, and had not occurred on campus before. Participation was open to all students on a voluntary basis. (See page 78 for program listings.)

CHAPTER II

METHOD

Subjects. Subjects for this study were chosen from those enrolled and present on the Longwood College campus for the fall, 1972, session. Therefore, student teachers were eliminated from the sample. Subjects were selected randomly using a table of random numbers matched against a roster of each class provided by the College. The number of subjects chosen from each class was determined on the basis of the percentage of the entire student body represented by the particular class. Therefore, no group outvalues another as would be the case if a fixed number of subjects were assigned from each class. Students withdrawn or not present on the campus were removed as were student teachers and were not replaced by others. A random sample of the student body was selected. Table 1 indicates the distribution of subjects chosen for this study.

Materials. Other researchers have employed differing techniques to assess the college environment. Stephan H. Scott employed the Personal Orientation Inventory (POI) to measure the growth of student leadership as contrasted to the general student population (Scott, 1975). Carl L. Harshman and Ellen F. Harshman developed The Residence Counselor Evaluation Scale (RCES) to evaluate residence staff performance and effectiveness (Harshman and Harshman, 1974). M. P. Smail developed the University Residence Environment Scale (URES) to measure student perceptions of student-student and student-staff relationships (Smail, 1974). Most relevant to this research was the use of Stern's College Characteristics Index (CCI) by James R. Shoemer and William A. McConnel. Shoemer and McConnel employed the CCI to measure perceptions of the prevailing atmosphere or climate of the campus and then used a t -test method to compare pre- and post-tests

TABLE 1

<u>Class</u>	<u>Number in Sample</u>	<u>Percentage of Class</u>
Freshmen	160	29.68
Sophomores	180	28.13
Juniors	173	29.32
*Seniors	<u>59</u>	28.00
	572	

*Student teachers, a large portion of the senior class were not on campus, and therefore, not eligible to participate according to the research design.

(Schoemer and McConnel, 1970). For the purposes of this study, none of these methods appeared satisfactory due to limitations imposed by their forms as well as the desire of this researcher to measure variables specific to Longwood College.

In view of the fact that there have been no satisfactory standardized measuring devices developed in this area, it was decided to employ a more generalized measure of attitudes. One of the most commonly used devices for attitude measurement is the Semantic Differential (Snider and Osgood, 1969). As developed by Osgood, the Semantic Differential functions as a rating procedure for the development of meaning. Bipolar adjectives (such as active-passive and good-bad) are employed with an intervening seven point scale. (See Appendix A for copies of the original instruments.)

This technique was chosen because of its easy adaptability to the needs of the researcher. Concepts could be determined according to their relevance to the Longwood College environment and the bi-polar adjectives could also be selected by the researcher so as to be as appropriate as possible. The Semantic Differential rating procedure was also chosen because the concepts to be measured were actually attitudes toward key words as they related to the college environment. This instrument, more than any other, allowed this researcher to quantify the level of meaning attached to each concept by student subjects.

Design. For each of five concepts; self, social atmosphere, dormitory, cooperation and communication, academic atmosphere, and for the word comparisons (residence hall and dormitory), ten pairs of bi-polar adjectives were used. An identical ten pairs were used in each of the five subcategories which formed each major concept. Pairs in each case were selected to elicit a range of responses relating to the concept in

question. In summary, five categories were to be measured--self (1), social atmosphere (2), dormitory (3), cooperation and communication (4), academic atmosphere (5), and in addition, measurement of the connotative value of the words residence hall and dormitory.

The concept of "self" was designed to measure the student's understanding of himself and his relation to and participation in the college environment. "Social atmosphere" studied student perception of activities offered and the adequacy and uniqueness of these activities. The concept "dormitory" attempted to measure specific perceptions of the living environment of the student. Emphasis was placed upon the students' feeling of control over his environment as modified by residence hall programming. "Cooperation and communication" studied the relationships between students, peers, faculty, and administration. Finally, "academic atmosphere" measured the relationship between residence hall programming and academic pervasiveness.

The design consisted of a pre-test and a post-test. For analysis, subjects were divided into three groups: the pre-test group consisting of all subjects completing the pre-test; the non-participant post-test group consisting of all subjects completing the post-test and who did not participate in the residence hall programming; and the participant post-test group consisting of all subjects completing the post-test and who participated in the residence hall programming. In addition, the participant post-test and non-participant post-test groups were compared.

Procedure. Administration was by appointment. Small group administration was the norm. The experimenter did not administer the test. Students, not among the sample, unaware of the specific purposes of the test, were instructed in the technique and administration of the test.

Scoring was performed by students not associated with Longwood College or the test administration.

Both pre-test and post-test were administered and scored in the same fashion. The pre-test was administered during the third week of classes following the beginning of the fall, 1972, term. It was felt this would be sufficient time for the students to regain the routine of college life. The post-test was administered during the final two weeks of the first semester. It was felt that this minimized the "learning effect" caused by administering an identical test as the post-test. In addition, the number of pairs and the range of responses possible also should have mediated against this effect.

It was not possible to keep track of and pair an individual respondent's pre- and post-test. A record was kept of who participated in the pre-test, but their specific questionnaire was not coded so that the post-test could be matched to it. Consequently, results deal with the attitudinal changes exhibited by the total group taking both tests in relation to the dependent variables of the instrument. Only those in the sample who participated in the pre-test were allowed to have the post-test administered to them.

Each individual pre- and post-test was scored using the following criteria. Only clearly marked instruments were regarded as valid. Respondents who marked on the vertical lines instead of within the spaces thereby invalidated their questionnaires. Blank pages or sections of pages were also grounds for discarding the instrument. This researcher felt that a sufficient percentage of the population was sampled so that it was not necessary to employ a technique to validate these discarded instruments.

In scoring, each of the seven spaces on the semantic differential scale was assigned a number with (1) denoting that space closest to the adjective on the left and (7) denoting that space closest to the adjective on the right. The left adjective was the negative adjective; the right, the positive.

Of a sample of 572, 335 usable pre-tests (58.57 percent) were found and of the 335 who were administered the pre-test, 275 usable post-tests (82.09 percent or 48.08 percent of the original sample of 572) were found. Because of the size of the original sample, it is felt that the results continue to have validity. The post-test also contained a question requiring a response regarding whether or not a respondent participated in the residence hall programming offered. Of the post-test group of 275, 172 (62.55 percent) participated in one or more programs and 103 (37.45 percent) did not. (See Appendix B for the raw data.)

CHAPTER III

RESULTS

Means and standard deviations were calculated for the scores of the pre-test subjects, the participant post-test subjects and for the non-participant post-test subjects. Table 2 displays the results. In addition, t-tests were performed comparing the five major categories of the pre-test with the participant post-test. Participant post-tests were also compared with non-participant post-tests. This second comparison was performed to determine whether changes exhibited were due only to the existence of residence hall programming or exhibited by all subjects. Results of these analyses are displayed in Table 3.

Generally, sufficient differences were found in the pre-test and participant post-test scores to indicate that an attitudinal change did occur due to the residence hall program stimulus. However, the comparison of the participant post-test and non-participant post-test scores indicates that this attitudinal change of the participants in the programming stimulus was not as significant as the first comparison would indicate. Obviously, some attitudinal change occurred within the non-participant group also.

The concept of "self", (category I) was designed to measure the student's view of himself and his relation to the college environment. The pre-test--post-test comparison of this category yielded a t-value of 0.606, a condition of non-significance. In addition, a t-value of 2.347 for the post-test comparisons suggests a slight regression may have occurred among the non-participant subjects or that those with a lower score regarding their view of the relationship between themselves and their environment did not participate. It can also be speculated that the

T A B L E 2

MEANS AND STANDARD DEVIATIONS BY CATEGORY
 FOR PRE-TESTS AND POST-TEST NON-PARTICIPANT AND PARTICIPANT GROUPS

<u>Category</u>		Non-Participant		Participant
		<u>All Pre-tests</u>	<u>Post-tests</u>	<u>Post-tests</u>
Self	Mean	3.515314	3.325800	3.463129
	S.D.	0.560400	0.680214	0.585614
Social Atmosphere	Mean	2.631214	3.082943	3.196014
	S.D.	0.466286	0.613086	0.524114
Dormitory	Mean	3.428443	3.224829	3.241943
	S.D.	0.611971	0.590414	0.564300
Cooperation and Communication	Mean	2.838214	3.394457	3.424500
	S.D.	0.518429	0.604414	0.623771
Academic Atmosphere	Mean	3.305414	3.286271	3.275743
	S.D.	0.526629	0.514814	0.586329

T A B L E 3

T-TESTS FOR FIVE ATTITUDE CATEGORIES

<u>Category</u>	<u>Pre-Test vs. Participant Post-Test</u>	<u>Non-Participant Post-Test vs. Participant Post-Test</u>
Self	0.606	2.347*
Social Atmosphere	11.869**	2.220*
Dormitory	3.001**	1.149
Cooperation and Communication	10.608**	1.275
Academic Atmosphere	0.230	0.837

* $p < .05$ ** $p < .01$

acts of planning and initiating have greater implications for the "self" category than simple participation. The non-significant result would support this conclusion.

The second category, "social atmosphere" was found to be significant at the .01 level when pre-test and participant post-test were compared. In addition, a comparison of the participant post-test and the non-participant post-test was also found to be significant at the .05 level. This finding reinforces the magnitude of the change found in this category. This category measured the student's perception of activity on the campus and was expected to be the most highly significant finding due to the social and activity orientation of the stimulus. This was, in fact, the case.

Also expected to be highly significant for the same reasons was category IV, "cooperation and communication." This category measured the perception of interaction occurring between students, their peers and faculty and administration. The pre-test--participant post-test t-value here was 10.68 which was significant at the .01 level. However, both participant and non-participant attitudes increased to the same extent. This indicates that the residence hall programming was not responsible for this improvement.

Category III, "dormitory" measured subject perception of the living space and was also found to be significant at the .01 level with a t-value of 3.001. However, this significant difference was found only when comparing pre-test with participant post-test. No significant difference was found for this category when participant and non-participant post-test were compared. The program stimulus was held in the dorms and was designed as a method to improve student views of their living space.

Yet, as Table 2 indicates, student views deteriorated over the period studied. The residence hall programming had no positive affect. Category V, "academic atmosphere," was also not affected by the residence hall programming. This result was expected due to the non-academic nature of programs offered.

Finally, it was found that the post-test indicated essentially no connotative difference between the words residence hall and dormitory among students surveyed. The mean score for "residence hall" was 0.662597 while the mean score for "dormitory" was 0.6701818..

CHAPTER IV

DISCUSSION

Prior research has indicated that residence hall programming should result in student attitude change across a broad range of measures of the college environment. A student who had a meaningful, coherent, and positive experience in the residence halls should also have a positive attitude toward academic atmosphere, peer relationships, faculty-student interaction, and administration-student relationships. This study was designed to test these assumptions by measuring attitude change caused by a residence hall programming stimulus.

It was apparent that the program stimulus measured is effective in modifying student attitudes toward the college environment. The stimulus employed in this experiment was heavily biased toward social activities. As noted, other researchers have suggested a more generalized result of such programming. This research raises doubts about these conclusions. Social programming did not produce attitude changes in other areas. Yet, the significance levels obtained suggest that such stimuli in a program more closely aligned with goals in specific areas should result in greater correlations between programs and attitude changes.

This study measured the general effect of residence hall programming upon the subject. Specific categories of students, such as class designations and other similar factors, were not analyzed. Changes in student attitudes were produced only in those areas relevant to the type of programming offered.

Because of the level of significance shown by the attitudinal change exhibited by participating Longwood College students, it is recommended that residence hall programming be continued and/or reinitiated. This

researcher feels that such a program will be most beneficial in terms of positive attitudes toward the concepts studied if an effort is made to establish in advance specific goals for the program which relate to the long- and short-term goals on the institution--the formation of positive attitudes has implications for the students' productivity as well as for the students' relationship to and view of the institution upon graduation.

This researcher recommends additional research to determine, under more controlled conditions of administration, individual respondent attitude changes. Such a follow-up instrument perhaps should be cross-referenced with biographical information on each student collected by the college. Also, it may be useful to repeat the experiment over time to determine whether the effect is moderated (as would be expected) by the on-going nature of such a residence hall program. Finally, as this research has pointed out, the programming should be designed around specific goals for each area of interest.

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APPENDIX A

PRE-TEST

INSTRUCTIONS: We wish to measure the meaning of certain words and phrases. This is not a test and there are no correct or incorrect answers. Rate the words or phrases at the top of each set of scales in terms of the meanings they have for you.

Place an X in the space which most nearly fits the meaning of the word or phrase at the top of the page as you actually think they are.

Example:

cowardly	<u> / X / / / / / / </u>	brave
bad	<u> / / / X / / / </u>	good
passive	<u> / / X / / / / </u>	active

dormitory as a social-center

tense / / / / / / / relaxed

worthless / / / / / / / valuable

rough / / / / / / / smooth

restrictive / / / / / / / free

stale / / / / / / / fresh

negative / / / / / / / positive

alone / / / / / / / together

unstable / / / / / / / stable

unpleasant / / / / / / / pleasant

chaotic / / / / / / / orderly

student interdisciplinary interestsunimportant / / / / / / / / importantchangeable / / / / / / / / stableimpersonal / / / / / / / / personalstale / / / / / / / / freshshallow / / / / / / / / deeptense / / / / / / / / relaxedunpleasant / / / / / / / / pleasantstatic / / / / / / / / dynamicdull / / / / / / / / creativeconstrained / / / / / / / / free

"social me"

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

social adequacy

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expedible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

dormitory life-space

tense	/ / / / / / /	relaxed
worthless	/ / / / / / /	valuable
rough	/ / / / / / /	smooth
restrictive	/ / / / / / /	free
stale	/ / / / / / /	fresh
negative	/ / / / / / /	positive
alone	/ / / / / / /	together
unstable	/ / / / / / /	stable
unpleasant	/ / / / / / /	pleasant
chaotic	/ / / / / / /	orderly

weekend activity

dull / / / / / / / / sharp

shallow / / / / / / / / deep

placid / / / / / / / / vigorous

stale / / / / / / / / fresh

expedible / / / / / / / / valuable

uniform / / / / / / / / diverse

insufficient / / / / / / / / sufficient

chaotic / / / / / / / / ordered

non-conforming / / / / / / / / conforming

impotent / / / / / / / / powerful

academic flexibility

unimportant / / / / / / / important

changeable / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

self-acceptance of circumstances

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

student-faculty involvement

- beligerent / / / / / / / peaceful
- inconsistent / / / / / / / consistent
- bottom / / / / / / / top
- unfair / / / / / / / fair
- passive / / / / / / / active
- superficial / / / / / / / profound
- flippant / / / / / / / earnest
- static / / / / / / / dynamic
- non-directional / / / / / / / directional
- expendable / / / / / / / valuable

academic creativity

unimportant / / / / / / / important

changeable. / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

dormitory as a learning-center

tense / / / / / / / relaxed

worthless / / / / / / / / valuable

rough / / / / / / / / smooth

restrictive / / / / / / / / free

stale / / / / / / / / fresh

negative / / / / / / / / positive

alone / / / / / / / / together

unstable / / / / / / / / stable

unpleasant / / / / / / / / pleasant

chaotic / / / / / / / / orderly

motivation

sad	/ / / / / / / /	happy
tense	/ / / / / / / /	relaxed
submissive	/ / / / / / / /	dominant
subsist	/ / / / / / / /	prevail
impotent	/ / / / / / / /	powerful
passive	/ / / / / / / /	active
constrained	/ / / / / / / /	free
alone	/ / / / / / / /	together
resistive	/ / / / / / / /	cooperative
negative	/ / / / / / / /	positive

student-faculty communication

belligerent / / / / / / / peaceful

inconsistant / / / / / / / consistant

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

extension of academics into residence halls

unimportant / / / / / / / important

changeable. / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

dormitory

tense	<u> / / / / / / / </u>	relaxed
restrictive	<u> / / / / / / / </u>	free
negative	<u> / / / / / / / </u>	positive
chaotic	<u> / / / / / / / </u>	orderly
alone	<u> / / / / / / / </u>	together
stale	<u> / / / / / / / </u>	fresh
non-conforming	<u> / / / / / / / </u>	conforming
unpleasant	<u> / / / / / / / </u>	pleasant
rigid	<u> / / / / / / / </u>	flexible
static	<u> / / / / / / / </u>	dynamic

faculty interdisciplinary interests

unimportant / / / / / / / important

changeable / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

self-contribution to college environment

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

dormitory freedom

tense	/ / / / / / /	relaxed
worthless	/ / / / / / /	valuable
rough	/ / / / / / /	smooth
restrictive	/ / / / / / /	free
stale	/ / / / / / /	fresh
negative	/ / / / / / /	positive
alone	/ / / / / / /	together
unstable	/ / / / / / /	stable
unpleasant	/ / / / / / /	pleasant
chaotic	/ / / / / / /	orderly

self-identity

- sad / / / / / / / happy
- tense / / / / / / / relaxed
- submissive / / / / / / / dominant
- subsist / / / / / / / prevail
- impotent / / / / / / / powerful
- passive / / / / / / / active
- constrained / / / / / / / free
- alone / / / / / / / together
- resistive / / / / / / / cooperative
- negative / / / / / / / positive

residence-hall

tense	/ / / / / / / /	relaxed
restrictive	/ / / / / / / /	free
negative	/ / / / / / / /	positive
chaotic	/ / / / / / / /	orderly
alone	/ / / / / / / /	together
stale	/ / / / / / / /	fresh
non-conforming	/ / / / / / / /	conforming
unpleasant	/ / / / / / / /	pleasant
rigid	/ / / / / / / /	flexible
static	/ / / / / / / /	dynamic

dormitory cohesivenesstense / / / / / / / / relaxedworthless / / / / / / / / valuablerough / / / / / / / / smoothrestrictive / / / / / / / / freestale / / / / / / / / freshnegative / / / / / / / / positivealone / / / / / / / / togetherunstable / / / / / / / / stableunpleasant / / / / / / / / pleasantchaotic / / / / / / / / orderly

peer cooperation and communication

belligerent / / / / / / / peaceful

inconsistent / / / / / / / consistent

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

student-administration communication

beligerent / / / / / / / peaceful

inconsistent / / / / / / / consistent

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

social creativity

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expedible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

student social input

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expedible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

peer contribution to college environment

beligerent	<u> / / / / / / /</u>	peaceful
inconsistent	<u> / / / / / / /</u>	consistent
bottom	<u> / / / / / / /</u>	top
unfair	<u> / / / / / / /</u>	fair
passive	<u> / / / / / / /</u>	active
superficial	<u> / / / / / / /</u>	profound
flippant	<u> / / / / / / /</u>	earnest
static	<u> / / / / / / /</u>	dynamic
non-directional	<u> / / / / / / /</u>	directional
expendable	<u> / / / / / / /</u>	valuable

dull / / / / / / / / sharp

shallow / / / / / / / / deep

placid / / / / / / / / vigorous

stale / / / / / / / / fresh

expedible / / / / / / / / valuable

uniform / / / / / / / / diverse

insufficient / / / / / / / / sufficient

chaotic / / / / / / / / ordered

non-conforming / / / / / / / / conforming

impotent / / / / / / / / powerful

POST-TEST

DIRECTIONS: We wish to measure the meaning of certain words and phrases. This is not a test and there are no correct or incorrect answers. Rate the words or phrases at the top of each set of scales in terms of the meanings they have for you. Place an X in the space which most nearly fits the meaning of the word or phrase at the top of the page as you actually think they are.

Example:

cowardly	<u> / X / / / / / / </u>	brave
bad	<u> / / / X / / / / </u>	good
passive	<u> / / X / / / / / </u>	active

self-identity

sad / / / / / / happy

tense / / / / / / relaxed

submissive / / / / / / dominant

subsist / / / / / / prevail

impotent / / / / / / powerful

passive / / / / / / active

constrained / / / / / / free

alone / / / / / / together

resistive / / / / / / cooperative

negative / / / / / / positive

self-acceptance of circumstances

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

self-contribution to college environment

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

motivation

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

"social me"

sad / / / / / / / happy

tense / / / / / / / relaxed

submissive / / / / / / / dominant

subsist / / / / / / / prevail

impotent / / / / / / / powerful

passive / / / / / / / active

constrained / / / / / / / free

alone / / / / / / / together

resistive / / / / / / / cooperative

negative / / / / / / / positive

weekend activity

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expendible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

weekday activity

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expendible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

social creativitydull / / / / / / / sharpshallow / / / / / / / deepplacid / / / / / / / vigorousstale / / / / / / / freshexpedible / / / / / / / valuableuniform / / / / / / / diverseinsufficient / / / / / / / sufficientchaotic / / / / / / / orderednon-conforming / / / / / / / conformingimpotent / / / / / / / powerful

social adequacy

 dull / / / / / / / sharp

shallow / / / / / / / deep

 placid / / / / / / / vigorous

 stale / / / / / / / fresh

 expendible / / / / / / / valuable

 uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

 chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

 impotent / / / / / / / powerful

student social input

dull / / / / / / / sharp

shallow / / / / / / / deep

placid / / / / / / / vigorous

stale / / / / / / / fresh

expedible / / / / / / / valuable

uniform / / / / / / / diverse

insufficient / / / / / / / sufficient

chaotic / / / / / / / ordered

non-conforming / / / / / / / conforming

impotent / / / / / / / powerful

dormitory cohesiveness

tense / / / / / / / relaxed

worthless / / / / / / / valuable

rough / / / / / / / smooth

restrictive / / / / / / / free

stale / / / / / / / fresh

negative / / / / / / / positive

alone / / / / / / / together

unstable / / / / / / / stable

unpleasant / / / / / / / pleasant

chaotic / / / / / / / orderly

dormitory as a learning-centertense / / / / / / / relaxedworthless / / / / / / / valuablerough / / / / / / / smoothrestrictive / / / / / / / freestale / / / / / / / freshnegative / / / / / / / positivealone / / / / / / / togetherunstable / / / / / / / stableunpleasant / / / / / / / pleasantchaotic / / / / / / / orderly

dormitory as a social-centertense / / / / / / / / relaxedworthless / / / / / / / / valuablerough / / / / / / / / smoothrestrictive / / / / / / / / freestale / / / / / / / / freshnegative / / / / / / / / positivealone / / / / / / / / togetherunstable / / / / / / / / stableunpleasant / / / / / / / / pleasantchaotic / / / / / / / / orderly

dormitory freedom

tense / / / / / / / relaxed

worthless / / / / / / / valuable

rough / / / / / / / smooth

restrictive / / / / / / / free

stale / / / / / / / fresh

negative / / / / / / / positive

alone / / / / / / / together

unstable / / / / / / / stable

unpleasant / / / / / / / pleasant

chaotic / / / / / / / orderly

dormitory life-space

tense / / / / / / / relaxed
worthless / / / / / / / valuable
rough / / / / / / / smooth
restrictive / / / / / / / free
stale / / / / / / / fresh
negative / / / / / / / positive
alone / / / / / / / together
unstable / / / / / / / stable
unpleasant / / / / / / / pleasant
chaotic / / / / / / / orderly

peer cooperation and communication

beligerent / / / / / / / peaceful

inconsistent / / / / / / / consistent

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

peer contribution to college environment

belligerent	<u> / / / / / / / </u>	peaceful
inconsistent	<u> / / / / / / / </u>	consistent
bottom	<u> / / / / / / / </u>	top
unfair	<u> / / / / / / / </u>	fair
passive	<u> / / / / / / / </u>	active
superficial	<u> / / / / / / / </u>	profound
flippant	<u> / / / / / / / </u>	earnest
static	<u> / / / / / / / </u>	dynamic
non-directional	<u> / / / / / / / </u>	directional
expendable	<u> / / / / / / / </u>	valuable

student-faculty communication

belligerent / / / / / / / peaceful

inconsistant / / / / / / / consistant

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

student-administration communication

belHgerent / / / / / / / peaceful

inconsistant / / / / / / / consistant

bottom / / / / / / / top

unfair / / / / / / / fair

passive / / / / / / / active

superficial / / / / / / / profound

flippant / / / / / / / earnest

static / / / / / / / dynamic

non-directional / / / / / / / directional

expendable / / / / / / / valuable

student-faculty involvement

belligerent	<u> / / / / / / / /</u>	peaceful
inconsistant	<u> / / / / / / / /</u>	consistant
bottom	<u> / / / / / / / /</u>	top
unfair	<u> / / / / / / / /</u>	fair
passive	<u> / / / / / / / /</u>	active
superficial	<u> / / / / / / / /</u>	profound
flippant	<u> / / / / / / / /</u>	earnest
static	<u> / / / / / / / /</u>	dynamic
non-directional	<u> / / / / / / / /</u>	directional
expendable	<u> / / / / / / / /</u>	valuable

academic flexibility

unimportant / / / / / / / important

changeable / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

academic creativity

unimportant / / / / / / / important

changeable. / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

extension of academics into residence halls

unimportant / / / / / / / important

changeable. / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

faculty interdisciplinary interests

unimportant	///	important
changeable	///	stable
impersonal	///	personal
stale	///	fresh
shallow	///	deep
tense	///	relaxed
unpleasant	///	pleasant
static	///	dynamic
dull	///	creative
constrained	///	free

student interdisciplinary interests

unimportant / / / / / / / important

changeable / / / / / / / stable

impersonal / / / / / / / personal

stale / / / / / / / fresh

shallow / / / / / / / deep

tense / / / / / / / relaxed

unpleasant / / / / / / / pleasant

static / / / / / / / dynamic

dull / / / / / / / creative

constrained / / / / / / / free

residence-hall

tense	<u> / / / / / / /</u>	relaxed
restrictive	<u> / / / / / / /</u>	free
netative	<u> / / / / / / /</u>	positive
chaotic	<u> / / / / / / /</u>	orderly
alone	<u> / / / / / / /</u>	together
stale	<u> / / / / / / /</u>	fresh
non-conforming	<u> / / / / / / /</u>	conforming
unpleasant	<u> / / / / / / /</u>	pleasant
rigid	<u> / / / / / / /</u>	flexible
static	<u> / / / / / / /</u>	dynamic

dormitory

tense	<u> / / / / / / </u>	relaxed
restrictive	<u> / / / / / / </u>	free
negative	<u> / / / / / / </u>	positive
chaotic	<u> / / / / / / </u>	orderly
alone	<u> / / / / / / </u>	together
stale	<u> / / / / / / </u>	fresh
non-conforming	<u> / / / / / / </u>	conforming
unpleasant	<u> / / / / / / </u>	pleasant
rigid	<u> / / / / / / </u>	flexible
static	<u> / / / / / / </u>	dynamic

participated in or attended any of the following programs:_____:

YES _____

NO _____

1. Discussion of Astrology and Witchcraft
2. Macrame
3. Decoupage
4. Massey & Andrick Concert
5. Gamble Rogers Concert
6. The Second Collection Concert
7. Silverman Concert
8. Exercise Club
9. Embroidery
10. How to stock a bar
11. How to make Christmas ornaments
12. Majorettes
13. Search for Dracula - Lecture
14. Bridge
15. Bicycle excursion
16. Photography - the basics
17. Bicycle Repair
18. Rap Session with Dr. Willett

APPENDIX B

B-8-77

P R E T E S T S C O R E S B Y C U E S T I O N

B-8-77

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	56	58	53	55	60	67	60	65	57	59	57	56	52	59	68	67	67	58	58	56	59	62	65	62	64	56	70	
2	49	51	50	52	43	53	45	52	39	43	33	48	32	47	50	48	35	48	52	46	48	51	44	45	47	47	46	
3	45	49	56	59	69	59	50	52	54	57	52	59	56	56	63	50	55	55	56	64	48	49	51	52	47	46	44	
4	58	49	57	43	53	49	42	54	61	36	31	52	57	33	50	40	59	61	55	60	51	58	62	49	53	52	52	
5	38	10	44	10	35	64	22	39	10	22	54	31	10	40	51	16	59	36	58	63	41	40	10	10	40	35	70	
6	49	50	51	45	50	47	47	44	66	55	53	38	50	60	51	39	48	41	44	42	32	53	59	42	38	46	38	
7	19	50	39	29	27	58	44	41	22	48	21	30	21	20	11	21	22	10	10	10	10	19	31	20	21	38	51	
8	52	65	56	56	57	54	58	61	68	62	55	61	69	48	60	61	60	61	60	62	60	70	70	60	50	64	64	
9	57	55	54	52	69	16	58	58	43	61	59	58	43	40	58	58	58	62	52	64	40	43	70	40	40	40	10	
10	39	53	61	51	48	43	53	49	52	52	56	61	56	52	59	59	57	60	63	58	57	45	68	55	55	51	43	
11	47	33	52	57	39	61	36	35	55	28	21	47	65	37	40	37	28	34	64	29	67	59	40	44	34	28	31	
12	37	40	59	59	46	53	41	41	36	36	45	52	31	40	48	35	28	33	54	37	41	42	32	33	41	16	40	
13	40	48	52	42	37	37	52	28	39	38	25	34	35	40	38	42	54	43	53	43	34	46	57	47	48	47	48	
14	50	45	52	44	49	55	44	45	40	45	34	46	43	53	47	44	45	34	44	43	42	52	58	52	50	42	39	
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PAGE 2 P R E T E S T S C O R E S B Y Q U E S T I O N

8-8-77

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P R E T E S T G R O U P S U M S

NO.	I	II	III	IV	V	VI	VII
1	239	248	230	236	303	56	68
2	237	197	221	166	234	46	50
3	278	217	269	210	262	64	63
4	277	194	254	238	200	60	50
5	231	124	204	070	110	63	51
6	225	172	225	228	251	42	51
7	142	128	087	093	183	10	11
8	238	220	285	277	234	62	60
9	280	148	287	199	272	64	58
10	231	204	260	221	269	58	58
11	226	196	208	219	171	23	40
12	234	186	202	141	192	37	48
13	221	174	179	177	220	43	38
14	232	201	209	193	231	43	47
15	265	127	256	203	241	57	48
16	287	199	228	174	230	61	48
17	217	146	234	219	223	48	57
18	208	117	173	199	179	30	29
19	201	162	213	181	209	41	47
20	216	146	276	208	217	60	56
21	235	204	269	226	268	56	54
22	270	205	265	196	248	56	56
23	246	203	257	212	224	51	52
24	261	212	233	196	203	53	50
25	249	195	212	179	233	46	46
26	244	189	293	197	234	45	63
27	194	123	272	193	215	65	63
28	306	253	312	205	249	64	58

PAGE 2 NO.	PRETEST GROUP SUMS						
	I	II	III	IV	V	VI	VII
29	200	170	180	143	198	39	32
30	229	175	250	198	220	49	49
31	136	158	216	145	180	43	43
32	215	176	241	176	218	50	58
33	239	163	281	192	237	50	52
34	305	227	323	272	279	60	64
35	235	168	289	217	214	67	67
36	239	162	197	209	206	43	44
37	190	197	227	217	240	49	47
38	280	206	253	237	308	54	45
39	319	227	312	208	259	60	61
40	211	131	204	179	208	25	39
41	245	178	213	164	204	37	40
42	263	220	196	219	219	51	34
43	238	219	210	245	274	41	41
44	315	227	250	247	264	70	66
45	222	136	210	212	284	37	44
46	180	168	227	241	236	41	39
47	252	157	238	200	248	49	53
48	245	176	210	185	223	41	49
49	246	155	177	146	279	25	36
50	235	220	266	180	222	53	53
51	295	193	308	211	256	70	62
52	281	211	313	228	277	60	55
53	219	170	217	183	224	41	37
54	245	187	281	206	224	56	57
55	242	130	217	177	146	37	34
56	201	168	239	203	218	57	53

PAGE 3	P R E T E R B T G R O U P S U M S						
NO.	I	II	III	IV	V	VI	VII
57	247	184	220	185	189	50	45
58	262	201	233	209	226	50	40
59	263	193	224	210	208	50	44
60	305	186	267	241	274	58	49
61	299	227	324	248	220	65	62
62	256	176	265	265	311	58	49
63	266	217	242	186	259	44	58
64	215	181	240	192	242	46	48
65	259	178	269	203	242	48	54
66	268	166	253	206	250	44	55
67	284	226	267	222	271	50	51
68	309	252	327	261	271	65	63
69	252	201	236	170	192	49	48
70	250	221	292	235	278	60	58
71	239	161	214	224	219	52	49
72	269	182	230	242	238	48	52
73	248	168	277	240	243	68	63
74	254	178	217	213	241	43	41
75	220	166	214	120	213	42	48
76	235	210	257	176	239	52	44
77	296	171	264	220	294	52	59
78	178	119	218	178	199	41	43
79	129	170	261	168	219	49	36
80	220	198	190	182	205	44	33
81	251	154	238	180	212	48	48
82	276	195	254	162	224	43	40
83	220	211	274	204	234	50	50
84	215	165	239	148	202	54	42

PAGE 4		PRETEST GROUP SUMS									
NO.	I	II	III	IV	V	VI	VII				
85	231	216	201	225	202	23	33				
86	248	204	274	231	247	59	61				
87	214	136	233	172	208	51	47				
88	227	234	234	193	214	56	48				
89	250	157	224	199	232	44	43				
90	236	143	174	123	273	35	48				
91	320	226	323	256	308	69	64				
92	222	206	209	185	156	40	33				
93	178	173	218	191	228	47	41				
94	320	231	284	244	222	59	64				
95	262	184	255	190	260	57	54				
96	262	231	158	256	221	22	16				
97	300	231	283	194	325	53	59				
98	196	145	147	136	176	35	33				
99	226	204	256	222	248	49	53				
100	250	144	281	150	129	53	60				
101	258	169	301	185	236	56	58				
102	262	220	237	224	256	42	43				
103	303	191	263	253	190	56	62				
104	239	101	244	213	300	48	67				
105	254	222	247	222	235	52	56				
106	217	180	209	216	220	41	33				
107	186	202	187	149	234	42	43				
108	197	171	251	176	215	52	53				
109	216	193	246	176	183	54	53				
110	250	201	244	225	283	46	46				
111	246	170	227	216	240	43	42				
112	227	192	265	223	226	48	49				

PAGE 5 P R E T E S T G R O U P S U M B

NO.	I	II	III	IV	V	VI	VII
113	275	216	290	245	232	56	56
114	244	154	243	212	248	55	52
115	300	181	253	236	285	41	56
116	291	214	290	203	266	56	55
117	213	145	248	227	202	54	53
118	344	199	296	200	257	70	61
119	314	215	277	250	270	54	53
120	251	186	227	185	210	39	45
121	196	159	189	156	199	39	36
122	236	213	317	233	239	61	62
123	219	208	252	232	225	33	58
124	302	214	278	242	265	62	60
125	201	184	209	140	244	16	41
126	264	046	075	082	079	40	16
127	252	164	263	208	256	53	53
128	243	212	243	225	245	48	46
129	213	166	301	214	252	58	64
130	264	179	200	212	213	47	43
131	164	110	179	154	186	44	29
132	267	181	196	213	241	44	38
133	208	185	240	196	213	47	48
134	249	189	232	210	214	45	48
135	223	196	225	212	206	46	49
136	239	173	209	200	214	50	44
137	201	170	229	183	245	51	54
138	265	207	261	210	261	54	50
139	241	146	211	127	197	53	40
140	283	232	258	213	224	58	51

NO.	I	II	III	IV	V	VI	VII
141	248	168	230	227	258	57	39
142	252	205	275	207	208	52	50
143	260	211	267	168	264	48	55
144	236	210	222	196	251	40	52
145	215	138	230	105	156	28	34
146	302	237	298	218	263	62	62
147	192	174	162	146	174	37	41
148	254	179	157	137	216	26	28
149	225	200	181	190	227	28	56
150	224	180	248	216	240	50	60
151	235	200	250	198	244	52	49
152	290	203	254	231	232	53	58
153	263	174	298	243	244	54	68
154	217	179	215	179	219	48	49
155	291	178	264	145	205	52	51
156	270	216	236	178	228	61	52
157	251	203	273	247	292	65	61
158	280	189	280	254	297	54	56
159	254	152	222	171	208	40	42
160	264	193	253	209	260	55	54
161	241	189	232	190	261	61	61
162	193	142	176	132	194	39	31
163	298	226	270	225	257	55	59
164	273	200	283	237	289	57	62
165	231	169	256	219	243	61	62
166	193	128	194	147	160	40	32
167	242	187	230	196	241	66	70
168	233	166	253	174	200	33	53

PAGE 7		PRETEST GROUP SUMS									
NO.	I	II	III	IV	V	VI	VII	VIII	IX	X	
169	238	194	279	185	235	60	59				
170	240	179	210	234	217	53	53				
171	201	142	212	208	196	33	44				
172	219	192	264	211	207	54	50				
173	252	219	271	247	265	61	48				
174	185	176	251	190	206	52	51				
175	215	117	218	226	244	48	47				
176	235	203	227	208	195	45	46				
177	282	219	318	208	240	64	68				
178	207	163	208	171	197	43	41				
179	269	200	277	245	270	49	55				
180	246	169	257	164	244	41	51				
181	230	170	262	161	217	48	49				
182	215	157	194	165	208	40	36				
183	297	211	258	218	247	62	62				
184	272	193	226	219	206	45	44				
185	247	159	206	182	208	37	44				
186	175	249	188	198	160	10	12				
187	244	169	237	175	215	47	48				
188	306	220	308	240	317	67	70				
189	269	169	231	180	239	70	67				
190	168	171	225	174	212	49	49				
191	230	181	199	201	248	51	32				
192	289	208	289	212	220	60	60				
193	258	159	265	217	250	51	55				
194	239	202	270	246	273	56	59				
195	229	159	202	145	176	26	45				
196	127	111	196	153	187	32	35				

PAGE 8		PRETERT GROUP SUMS									
NO.	I	II	III	IV	V	VI	VII	VI	VII	VI	VII
197	196	168	213	179	201	41	39				
198	318	227	266	252	251	57	58				
199	284	231	261	187	223	53	56				
200	137	165	176	156	163	40	40				
201	263	174	221	179	224	53	49				
202	262	202	291	230	255	51	58				
203	258	211	289	242	240	56	43				
204	199	190	261	225	270	52	53				
205	201	159	164	147	145	40	24				
206	211	194	233	208	231	43	45				
207	213	179	218	178	222	52	43				
208	280	202	227	236	218	50	55				
209	268	133	211	184	190	41	57				
210	222	187	247	215	264	58	53				
211	213	172	175	162	211	36	34				
212	251	197	264	216	246	53	53				
213	244	195	253	166	219	48	58				
214	227	154	213	160	210	41	45				
215	250	152	208	177	217	52	44				
216	243	185	260	197	229	48	55				
217	226	195	172	127	191	40	38				
218	265	152	278	226	248	70	67				
219	264	203	268	211	271	57	58				
220	265	218	267	215	257	56	60				
221	146	150	096	120	167	17	12				
222	219	149	224	185	227	39	44				
223	248	192	228	167	212	42	45				
224	239	168	251	205	231	50	52				

PAGE 9		P R E T E G T C R O U P S U M S													
NO.	I	II	III	IV	V	VI	VII	NO.	I	II	III	IV	V	VI	VII
225	224	162	227	257	240	48	45	225	224	162	227	257	240	48	45
226	236	241	321	252	306	63	65	226	236	241	321	252	306	63	65
227	256	194	227	178	223	70	62	227	256	194	227	178	223	70	62
228	249	141	188	196	236	42	44	228	249	141	188	196	236	42	44
229	257	194	219	218	208	52	36	229	257	194	219	218	208	52	36
230	267	186	277	217	228	55	56	230	267	186	277	217	228	55	56
231	225	159	262	191	182	45	47	231	225	159	262	191	182	45	47
232	219	183	202	181	197	38	46	232	219	183	202	181	197	38	46
233	241	172	236	175	201	38	47	233	241	172	236	175	201	38	47
234	224	175	225	206	228	47	49	234	224	175	225	206	228	47	49
235	265	234	266	241	231	40	52	235	265	234	266	241	231	40	52
236	246	178	256	185	226	50	42	236	246	178	256	185	226	50	42
237	229	198	263	210	233	49	49	237	229	198	263	210	233	49	49
238	231	169	184	157	213	38	36	238	231	169	184	157	213	38	36
239	220	171	233	175	211	48	41	239	220	171	233	175	211	48	41
240	216	164	230	196	225	44	48	240	216	164	230	196	225	44	48
241	273	218	237	214	238	53	53	241	273	218	237	214	238	53	53
242	223	229	302	238	247	61	59	242	223	229	302	238	247	61	59
243	269	196	169	156	200	36	36	243	269	196	169	156	200	36	36
244	267	142	267	180	199	50	52	244	267	142	267	180	199	50	52
245	276	223	286	191	240	58	59	245	276	223	286	191	240	58	59
246	237	183	221	228	245	41	49	246	237	183	221	228	245	41	49
247	275	193	261	217	221	47	54	247	275	193	261	217	221	47	54
248	264	216	245	227	250	44	55	248	264	216	245	227	250	44	55
249	218	179	278	242	288	50	59	249	218	179	278	242	288	50	59
250	294	228	236	235	284	59	61	250	294	228	236	235	284	59	61
251	261	155	297	231	177	44	68	251	261	155	297	231	177	44	68
252	270	105	123	170	173	26	29	252	270	105	123	170	173	26	29

PAGE 10		P R E T E S T G R O U P S U M S									
NO.	I	II	III	IV	V	VI	VII	VIII	IX	X	
253	262	231	250	233	245	53	50				
254	256	209	301	251	284	52	48				
255	218	183	146	164	174	25	33				
256	280	155	260	189	213	56	56				
257	271	247	237	205	196	51	54				
258	230	184	231	216	251	48	48				
259	215	176	231	233	262	47	52				
260	205	175	151	152	248	36	27				
261	240	163	209	164	205	36	44				
262	271	236	320	260	294	70	55				
263	244	187	189	178	176	26	41				
264	304	224	232	270	300	61	43				
265	253	170	255	206	230	48	49				
266	257	149	286	220	258	52	60				
267	203	185	234	164	289	41	48				
268	285	227	277	242	269	56	57				
269	241	188	256	219	256	50	53				
270	236	200	288	254	287	47	51				
271	261	181	265	215	234	53	58				
272	223	154	206	180	205	35	47				
273	290	218	276	180	232	60	55				
274	232	172	198	126	168	44	48				
275	235	172	201	179	218	39	39				
276	285	223	287	226	266	60	61				
277	218	202	208	172	200	46	43				
278	209	225	134	121	164	19	38				
279	322	249	280	235	294	66	57				
280	230	165	227	190	214	45	49				

PAGE 11		PRETEST GROUP BUMS									
NO.	I	II	III	IV	V	VI	VII	VIII	IX	X	XI
281	318	192	277	245	268	59	63	37	41	46	59
282	253	217	221	200	230	41	37	46	59	63	37
283	315	254	289	204	278	63	68	59	60	63	59
284	309	198	303	265	273	60	59	47	47	47	45
285	301	214	194	213	241	40	35	29	29	29	29
286	281	240	350	222	218	70	70	70	70	70	70
287	164	136	169	155	191	40	26	26	26	26	26
288	190	171	259	223	235	43	54	54	54	54	54
289	139	112	168	104	161	32	23	23	23	23	23
290	232	161	254	200	265	47	48	48	48	48	48
291	206	159	195	190	192	40	41	41	41	41	41
292	261	224	304	245	289	53	58	58	58	58	58
293	277	209	276	226	249	55	61	61	61	61	61
294	239	228	195	241	230	37	33	33	33	33	33
295	189	137	195	174	215	41	50	50	50	50	50
296	256	131	237	238	261	43	51	51	51	51	51
297	240	156	238	192	220	47	49	49	49	49	49
298	282	202	297	230	279	63	60	60	60	60	60
299	268	224	273	227	284	55	59	59	59	59	59
300	233	174	225	187	218	42	50	50	50	50	50
301	242	202	234	152	195	56	50	50	50	50	50
302	260	194	295	224	219	63	62	62	62	62	62
303	270	216	222	170	269	46	43	43	43	43	43
304	230	243	242	200	212	40	59	59	59	59	59
305	193	168	226	169	220	47	45	45	45	45	45
306	169	097	136	118	146	37	29	29	29	29	29
307	235	179	236	150	218	52	54	54	54	54	54
308	157	178	135	117	188	21	22	22	22	22	22

NO.	I	II	III	IV	V	VI	VII
309	281	176	218	186	175	58	58
310	251	156	224	200	234	45	52
311	195	146	204	154	206	45	44
312	277	218	311	229	286	63	61
313	204	156	217	175	225	41	49
314	348	210	292	280	333	70	70
315	201	160	196	155	203	40	40
316	312	241	331	263	315	57	58
317	235	197	213	177	192	37	54
318	224	154	242	224	277	61	70
319	271	210	231	171	211	38	40
320	302	134	237	179	281	40	42
321	305	196	283	208	239	53	62
322	283	229	214	244	270	36	36
323	256	214	298	200	259	60	61
324	279	188	232	241	238	64	63
325	232	163	277	194	210	44	55
326	178	130	185	148	190	34	34
327	176	133	216	195	203	46	44
328	234	145	228	149	195	48	47
329	244	166	226	174	257	46	40
330	282	187	257	247	254	56	54
331	313	208	250	191	259	52	62
332	305	255	316	270	310	63	56
333	203	082	193	118	185	40	43
334	224	166	216	197	215	42	44
335	163	130	174	127	210	32	28

82434 61702 80397 66556 77512 16265 16534

8-8-77

P O S T E S T S C O R E S B Y C U E S T I O N

8-8-77

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
1	60	60	52	37	60	58	60	21	50	40	57	10	24	25	43	40	30	22	40	30	62	54	18	25	53	40	41	Y
2	53	63	57	57	60	53	42	47	52	46	57	58	58	56	63	57	57	57	54	59	56	49	58	53	51	54	56	Y
3	50	39	36	53	47	39	31	37	37	42	40	54	45	44	49	42	44	43	31	48	42	39	34	39	36	36	39	Y
4	62	44	24	67	38	48	52	56	59	30	45	50	34	32	48	47	54	22	33	34	57	63	53	25	12	50	50	Y
5	70	65	63	63	66	40	45	40	56	42	42	40	34	36	54	40	40	26	28	10	19	34	15	10	21	38	44	Y
6	47	55	50	51	41	49	57	43	55	32	33	46	58	43	45	51	41	42	48	45	50	56	50	39	34	37	39	Y
7	64	56	50	57	50	21	59	42	43	53	63	56	58	54	53	63	67	58	62	51	58	47	55	51	57	62	57	Y
8	25	22	20	20	23	19	33	23	41	27	42	26	24	29	21	33	36	27	31	38	36	42	53	33	33	28	31	N
9	43	54	43	40	53	53	44	52	35	39	55	32	60	53	58	57	50	43	45	45	39	39	45	45	46	52	51	N
10	43	42	40	50	32	50	46	56	53	42	42	32	42	48	45	48	44	44	46	45	56	52	43	44	52	44	47	N
11	51	55	45	51	53	46	39	49	46	35	43	47	40	36	41	47	45	36	32	33	49	52	41	42	40	42	41	N
12	47	49	48	48	49	52	47	54	54	55	53	53	54	55	51	54	52	51	49	53	53	50	51	51	50	53	51	N
13	55	52	58	50	53	30	50	50	39	49	60	50	60	60	60	60	59	51	46	45	45	45	34	46	51	60	60	N
14	57	60	53	51	55	46	45	52	56	44	54	34	60	60	54	53	57	60	58	54	30	53	48	53	49	56	56	N
15	58	61	62	59	63	55	54	53	60	56	63	49	46	53	53	65	66	61	61	63	66	51	51	51	65	58	60	N
16	51	47	43	47	50	42	45	42	43	40	47	58	59	60	59	46	49	50	53	53	49	50	45	45	46	54	54	N
17	43	40	41	38	42	39	40	40	38	40	44	44	38	44	48	43	40	40	41	40	40	41	40	40	40	44	44	N
18	56	60	48	49	46	42	57	49	51	53	59	52	58	57	47	55	52	62	56	55	58	62	53	59	62	52	52	N
19	56	57	48	56	49	17	40	46	27	35	63	61	69	67	64	56	59	42	34	35	55	52	47	44	54	65	52	Y
20	56	52	50	54	51	50	56	44	52	48	46	37	49	46	46	49	50	53	30	58	48	51	39	47	48	48	49	Y
21	57	53	57	57	62	69	54	52	51	56	62	51	69	49	53	62	62	59	54	49	43	44	44	52	47	57	52	Y
22	48	44	57	52	45	43	26	34	46	35	45	62	50	57	61	43	41	28	30	28	52	49	51	33	44	43	57	Y
23	61	37	40	10	60	16	10	20	46	40	40	10	10	10	21	45	40	22	50	18	40	40	40	40	40	10	16	Y
24	47	46	46	48	43	34	42	44	46	44	46	45	41	45	50	45	45	46	46	48	45	45	44	45	46	45	53	Y
25	47	39	34	43	47	50	39	41	39	38	35	34	47	39	33	41	37	39	34	34	46	49	36	43	45	37	38	Y
26	53	56	46	50	41	55	55	51	57	50	57	56	48	51	53	60	40	48	41	42	50	53	36	40	40	40	53	Y
27	61	58	56	57	54	30	54	40	39	38	62	54	40	67	60	60	66	66	43	27	45	51	53	48	54	58	48	Y
28	59	53	43	41	64	58	40	42	30	40	40	46	52	61	61	53	47	59	40	50	44	45	31	35	39	55	50	N

POSTEST SCORES BY QUESTION

R-6-77

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
29	55	48	53	54	41	36	43	34	39	35	50	44	57	51	48	47	51	31	61	37	38	45	40	38	47	55	51	N			
30	45	47	42	54	58	39	46	54	45	40	31	40	43	56	44	44	60	47	62	44	52	44	45	41	54	35	40	N			
31	44	40	56	42	40	31	40	40	52	44	51	40	47	46	53	51	49	49	47	35	38	49	46	34	35	46	47	N			
32	50	54	31	35	41	43	32	55	49	47	55	45	57	55	58	55	49	39	38	40	52	45	50	44	44	53	49	N			
33	41	35	32	50	46	51	39	63	57	55	42	60	63	47	53	58	58	47	36	39	64	51	42	26	63	54	48	N			
34	61	51	64	42	54	54	56	50	27	61	54	54	53	59	60	53	60	60	40	41	50	56	42	40	40	53	58	Y			
35	62	56	64	63	63	48	49	62	53	59	65	63	64	62	66	62	59	60	64	59	60	40	41	50	56	42	40	40	53	58	Y
36	57	70	54	64	65	34	53	47	52	47	63	62	64	56	55	61	51	52	53	51	46	42	55	42	58	60	58	Y			
37	42	51	15	28	47	17	22	10	25	10	30	34	64	31	42	52	49	52	54	37	38	30	28	19	50	58	38	Y			
38	46	28	38	40	30	44	54	37	44	38	59	55	58	53	58	50	47	36	48	41	42	44	47	43	43	55	59	Y			
39	53	50	48	51	47	36	60	51	36	56	55	55	52	56	50	50	56	50	47	42	48	47	50	51	59	59	54	N			
40	31	40	27	20	18	11	41	30	44	38	26	20	14	40	23	50	40	60	15	62	40	36	32	40	40	26	30	N			
41	52	45	52	47	52	52	38	55	33	51	54	55	54	51	55	43	33	47	53	46	47	44	32	37	54	58	N				
42	46	45	39	40	48	41	34	40	44	41	42	47	50	48	49	41	46	43	47	36	39	38	45	37	48	40	44	N			
43	44	45	44	38	48	38	27	44	45	32	39	29	51	47	56	51	52	35	33	34	36	36	39	34	47	49	52	N			
44	48	50	52	46	52	48	49	50	47	52	60	50	50	25	56	57	51	52	44	41	42	54	58	50	51	70	58	N			
45	57	57	53	55	56	56	48	47	52	53	48	44	57	54	48	55	56	45	39	44	53	51	44	46	50	49	42	N			
46	36	40	34	33	38	39	42	43	46	42	43	39	45	55	49	49	44	48	50	49	42	42	42	47	44	46	50	N			
47	53	43	33	37	35	45	47	51	51	49	47	51	56	46	53	51	56	42	47	47	48	42	42	47	44	46	50	N			
48	32	29	34	30	29	24	38	32	26	28	38	43	52	39	55	41	49	53	46	53	39	46	35	37	40	50	51	N			
49	45	37	37	48	45	32	38	39	41	42	45	42	49	35	46	47	45	44	38	31	38	46	46	48	43	37	N				
50	57	51	52	59	59	27	27	49	51	53	56	51	56	62	59	58	40	33	38	34	45	41	46	52	58	53	N				
51	37	41	34	42	39	37	36	38	50	30	40	29	39	31	36	36	37	42	49	39	41	40	36	36	39	30	32	N			
52	56	53	56	57	55	60	51	52	53	52	45	52	55	44	49	51	49	49	41	54	51	53	43	51	53	43	43	N			
53	40	46	40	61	47	32	32	52	40	38	40	55	54	53	40	39	40	56	35	36	55	44	40	43	50	39	38	N			
54	47	46	43	48	51	42	44	34	60	45	50	50	50	50	49	41	43	50	50	54	52	50	45	49	47	50	N				
55	49	40	35	40	32	40	46	40	48	41	38	40	34	39	45	38	40	59	63	55	43	51	52	51	35	34	40	N			
56	45	33	36	52	23	34	47	54	44	39	38	51	58	47	47	38	37	61	60	53	50	47	41	40	51	47	48	N			

POST TEST SCORES BY QUESTION

B-8-77

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
57	58	45	32	50	59	59	43	45	61	40	36	50	23	23	35	49	30	35	33	39	34	47	26	31	27	31	37	N
58	37	40	38	40	40	39	39	40	40	43	40	40	43	41	7	42	40	42	43	44	40	43	40	41	41	45	45	N
59	70	66	53	60	66	60	58	50	61	40	40	19	37	42	40	40	32	58	40	51	44	61	50	52	67	39	40	N
60	52	52	39	52	36	61	45	50	50	40	53	58	65	70	62	50	60	40	40	43	70	51	62	43	41	56	59	N
61	39	38	38	33	37	43	43	41	40	36	25	38	35	40	38	39	35	40	40	39	48	46	41	46	33	35	39	N
62	50	45	42	41	47	35	44	41	41	42	41	43	43	41	42	38	42	41	42	42	43	44	41	42	40	41	40	N
63	54	56	50	56	54	41	41	40	41	40	54	55	56	53	49	50	46	49	44	44	52	49	50	44	51	51	53	N
64	60	59	53	60	65	58	49	62	49	63	61	60	61	58	55	62	63	60	65	49	60	50	52	57	60	56	58	N
65	38	30	35	33	31	25	30	40	24	40	40	40	40	47	40	40	38	30	40	33	26	40	40	40	40	44	40	N
66	55	44	45	53	47	40	49	52	39	39	50	56	55	52	40	49	46	43	42	53	55	58	50	46	51	47	47	Y
67	41	50	42	48	50	42	47	47	43	19	40	41	50	45	41	40	52	50	48	51	46	40	56	41	44	40	Y	
68	55	54	50	56	52	30	30	38	33	31	54	57	51	53	54	67	54	59	56	51	60	55	55	59	52	55	57	Y
69	40	40	40	20	10	22	40	68	40	40	40	40	40	41	40	39	34	40	42	40	40	53	40	50	43	37	40	Y
70	54	40	49	43	61	70	39	50	56	40	40	50	53	50	40	58	70	70	60	70	70	70	50	70	70	44	40	Y
71	40	37	38	37	39	35	46	44	40	32	35	32	37	34	30	39	38	30	34	35	33	36	34	40	21	35	32	N
72	53	42	57	46	14	49	31	25	65	50	22	14	53	22	44	39	21	28	58	14	23	62	70	54	60	31	13	N
73	39	38	34	51	48	35	30	36	38	33	31	31	28	37	41	40	45	46	43	44	41	45	33	41	38	38	39	N
74	50	50	40	50	60	40	40	40	40	50	50	60	60	60	50	50	40	50	40	50	40	50	50	50	50	60	60	N
75	55	45	51	39	50	38	30	45	37	20	62	58	51	30	45	64	40	48	39	52	33	57	38	54	44	49	41	N
76	53	44	43	49	42	43	54	47	31	47	46	13	18	31	27	42	51	60	34	55	46	57	57	54	34	38	31	Y
77	52	55	55	54	54	46	54	34	51	45	45	47	50	52	45	55	48	14	20	25	57	33	50	28	51	46	48	Y
78	26	41	26	38	44	58	34	56	45	36	28	29	20	22	37	40	41	20	27	35	49	57	12	31	44	10	22	Y
79	33	35	30	35	19	28	23	21	37	39	50	36	35	29	38	50	41	41	49	38	39	43	32	40	40	36	32	Y
80	40	41	24	44	43	22	46	48	34	54	32	18	36	13	34	20	43	34	43	19	21	32	30	28	53	22	29	Y
81	57	55	56	53	55	39	48	56	47	60	52	60	60	57	38	53	55	56	59	60	57	51	54	60	60	53	49	Y
82	38	20	48	53	59	50	53	54	53	31	50	58	60	55	60	57	48	13	17	28	40	36	39	11	16	59	60	Y
83	24	20	41	40	20	44	40	40	40	39	41	40	56	40	40	34	40	40	40	40	47	40	46	49	42	39	40	N
84	44	44	46	51	47	41	42	42	46	42	48	58	53	48	52	46	46	43	46	49	48	51	51	45	51	49	44	N

POSTEST SCORES BY QUESTION

E-8-77

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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86	42	23	43	27	42	41	39	41	45	36	31	16	36	38	39	36	34	31	19	25	42	35	29	40	36	34	31
87	55	46	62	58	51	26	33	30	37	36	48	24	56	30	56	50	43	51	46	45	48	46	51	44	47	33	45
88	51	50	50	50	50	59	50	50	46	50	40	50	50	60	50	50	50	50	50	50	50	50	50	50	50	50	50
89	55	45	24	51	33	48	50	43	47	32	24	50	50	35	39	49	60	34	35	43	46	35	44	22	49	30	30
90	60	57	49	56	56	58	51	64	46	54	49	57	53	51	48	51	51	55	51	47	54	52	49	53	48	52	Y
91	45	47	42	51	47	52	46	51	54	43	40	48	43	49	43	43	44	43	41	42	45	48	51	45	44	40	52
92	70	40	40	64	40	20	10	47	50	40	10	10	10	55	10	64	40	70	69	40	64	60	61	70	70	19	26
93	55	62	54	56	45	34	39	44	44	45	48	55	43	56	47	63	50	62	57	48	52	49	62	47	62	44	46
94	66	66	67	66	54	56	56	46	56	43	46	63	70	59	58	63	32	63	66	62	63	62	61	51	64	58	55
95	46	58	41	54	47	52	48	39	42	31	38	23	46	35	51	41	54	56	54	41	42	46	42	46	52	37	47
96	27	32	31	43	32	47	43	42	35	46	53	49	49	53	51	45	45	39	37	45	34	39	48	35	38	53	52
97	56	53	47	53	50	38	42	40	43	40	54	54	52	54	51	51	51	49	50	49	45	51	55	40	41	55	56
98	21	23	34	20	20	22	18	26	27	28	28	20	17	44	31	50	16	51	38	34	25	43	27	26	24	22	29
99	58	65	60	65	59	26	56	52	45	60	60	53	64	54	49	60	65	57	63	59	60	62	59	57	58	63	63
100	66	51	58	51	59	19	61	43	33	43	43	49	35	25	37	67	16	16	17	62	60	61	64	64	33	33	N
101	59	60	64	57	50	55	58	45	56	57	60	59	57	57	59	55	60	66	64	58	61	63	59	65	57	61	59
102	61	54	59	65	60	44	66	55	50	57	65	63	61	61	60	63	62	55	48	61	57	53	61	49	55	60	64
103	36	40	41	31	34	28	29	33	31	34	23	27	29	25	33	36	28	38	17	27	27	21	32	31	32	26	30
104	31	37	34	26	23	31	40	23	33	28	35	24	52	54	35	23	47	62	60	49	36	35	34	46	16	28	37
105	64	52	48	64	66	63	54	56	50	56	64	49	59	65	54	56	50	58	50	59	56	51	50	54	62	64	61
106	64	50	65	64	60	48	67	64	55	46	62	66	56	61	52	78	64	66	70	59	64	61	68	60	46	64	48
107	56	56	41	43	58	51	44	53	48	54	50	46	54	39	52	60	34	50	42	43	50	53	37	42	48	46	53
108	53	49	51	44	42	51	32	54	57	45	51	25	35	36	41	20	43	59	52	50	51	52	42	51	47	41	44
109	17	18	21	12	14	65	23	10	25	16	16	10	47	15	15	14	15	12	20	24	41	24	29	15	13	12	16
110	49	40	54	37	57	38	38	59	52	51	47	32	45	52	51	50	52	43	47	46	42	45	35	31	45	48	51
111	54	55	55	55	55	55	57	48	56	54	55	57	57	54	57	56	55	54	54	51	55	51	51	54	55	55	57
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113	46	54	33	54	58	53	57	49	45	52	61	56	63	58	55	58	52	55	53	53	52	52	48	44	51	62	52	Y	
114	61	62	48	66	48	53	63	50	26	33	63	36	58	66	62	55	63	66	64	52	45	61	52	53	39	66	58	Y	
115	61	57	57	58	60	42	43	23	37	35	59	46	37	60	37	54	36	53	56	38	37	40	38	38	40	58	62	Y	
116	48	46	44	42	40	27	50	42	44	48	49	39	51	41	46	50	51	50	55	54	49	48	50	44	39	45	47	Y	
117	64	50	30	40	51	61	61	40	43	50	68	40	66	69	69	63	49	20	21	16	36	31	41	40	60	68	22	Y	
118	53	50	35	38	54	45	30	36	34	32	44	25	47	36	43	44	36	52	35	40	48	42	36	41	37	44	46	Y	
119	55	60	45	58	51	46	44	51	50	51	36	56	60	49	58	61	42	47	41	45	41	45	44	35	60	51	52	Y	
120	50	39	42	56	38	51	53	41	36	44	25	24	19	35	21	33	42	37	53	38	52	48	29	41	32	33	30	Y	
121	47	56	43	52	54	57	42	34	41	47	57	40	40	31	38	54	50	32	29	23	38	46	45	37	48	43	38	Y	
122	34	34	38	32	35	26	30	38	29	30	22	42	30	48	23	38	40	32	40	37	42	31	44	38	40	28	26	Y	
123	60	41	50	60	47	36	50	39	37	39	60	39	56	34	52	56	46	46	32	47	48	54	51	36	35	47	48	52	Y
124	44	45	45	49	48	26	34	38	37	52	45	49	47	42	44	53	55	47	30	39	37	43	42	48	46	39	39	Y	
125	51	39	47	36	50	58	59	43	47	35	43	29	20	37	43	35	39	35	40	27	45	45	34	39	40	40	35	Y	
126	54	52	46	49	52	45	44	54	41	44	42	34	52	54	39	46	46	50	48	48	44	47	42	38	44	42	42	Y	
127	28	36	29	35	22	32	28	35	40	40	43	36	42	49	40	50	43	31	28	27	35	33	37	45	39	39	34	Y	
128	47	45	38	41	55	51	34	35	33	35	49	35	47	31	34	49	52	48	44	54	36	39	38	39	36	42	38	Y	
129	48	35	45	26	30	17	27	23	19	27	44	54	43	54	48	40	24	47	47	45	46	50	48	46	47	42	47	Y	
130	47	49	40	35	35	29	36	34	37	50	49	53	51	47	60	51	39	49	40	57	43	45	47	49	53	47	Y		
131	45	43	37	61	41	34	39	42	32	35	56	50	49	57	50	54	45	38	47	48	42	49	52	44	52	49	47	Y	
132	48	51	39	48	48	39	39	50	43	48	50	61	58	60	46	50	60	47	60	51	42	47	45	42	41	59	50	Y	
133	44	45	48	48	48	39	58	51	45	50	46	51	51	50	62	63	42	50	42	50	52	47	46	47	51	52	Y		
134	63	60	56	50	60	54	51	60	53	46	58	60	70	58	55	52	51	50	50	42	60	58	60	50	40	67	69	Y	
135	42	50	41	48	53	49	43	45	32	41	46	29	59	63	60	43	54	42	35	44	36	44	40	35	32	55	55	Y	
136	43	56	60	47	17	29	47	64	46	50	63	23	68	63	51	62	22	19	17	16	63	65	66	25	34	37	54	Y	
137	56	62	55	62	52	61	51	54	52	47	60	66	58	61	54	62	46	54	52	56	50	58	62	62	62	55	55	50	
138	16	33	19	32	30	44	44	31	38	39	40	41	43	55	47	27	52	55	48	48	43	46	46	34	41	33	38	Y	
139	48	35	43	38	55	27	32	33	41	49	46	31	37	40	44	52	49	32	29	22	17	20	32	32	46	44	47	Y	
140	48	50	43	48	49	50	49	48	49	40	32	32	47	51	41	39	53	47	49	38	34	47	34	48	48	35	38	Y	

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141	61	55	60	62	66	57	51	55	49	59	59	56	66	62	61	65	64	52	64	50	58	58	59	56	58	68	64	Y
142	39	37	45	35	40	54	54	42	34	44	40	32	56	58	47	42	35	36	37	38	40	38	41	33	46	47	52	Y
143	59	45	43	46	60	57	57	57	61	60	70	56	64	52	68	53	59	53	53	53	59	55	55	65	58	59	59	Y
144	39	40	44	41	46	34	47	40	40	40	40	42	40	34	39	43	38	35	33	33	40	41	40	37	42	41	37	Y
145	59	40	57	51	62	23	43	47	30	39	58	51	55	67	50	42	69	70	67	54	50	52	61	50	63	66	Y	
146	41	38	44	47	58	32	45	47	41	63	40	43	35	29	41	48	41	46	43	40	45	34	43	40	42	37	34	Y
147	60	39	59	48	60	69	70	53	40	60	60	32	58	33	40	57	59	52	57	58	40	60	50	40	70	58	62	Y
148	34	42	36	28	25	41	42	70	45	46	15	15	18	46	12	74	57	51	70	45	34	38	23	61	63	20	16	
149	54	54	51	50	58	36	37	45	31	46	53	34	32	48	51	55	49	46	48	53	48	55	48	51	47	51	58	Y
150	58	54	54	57	32	55	41	57	54	47	51	54	50	45	54	52	48	44	43	46	48	54	40	69	45	45	53	Y
151	58	48	57	60	56	56	49	57	52	50	46	58	50	54	49	60	45	60	54	50	34	51	60	54	58	51	50	Y
152	40	50	31	10	41	40	11	40	27	10	28	10	23	10	40	12	12	30	10	43	60	70	40	10	40	10	18	Y
153	46	52	46	51	59	59	50	51	58	57	52	50	59	56	50	57	53	43	50	56	52	55	44	43	50	53	54	Y
154	54	59	53	54	54	32	60	44	49	36	37	36	38	34	35	39	31	34	32	34	38	41	37	35	35	41	36	Y
155	48	42	43	48	51	48	46	56	51	52	61	48	59	51	55	62	55	60	61	53	59	45	63	54	51	52	55	Y
156	55	56	46	40	53	22	37	44	55	43	25	40	47	31	67	49	39	40	52	42	42	61	68	37	40	40	42	Y
157	42	26	49	43	31	10	15	45	21	14	47	46	38	52	47	37	15	54	15	51	45	53	39	53	51	41	55	Y
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159	55	57	53	60	57	37	40	60	53	55	48	35	39	51	57	52	58	60	59	57	59	56	60	58	56	43	54	
160	52	56	53	45	48	33	40	43	40	47	53	56	57	58	51	42	51	56	50	48	44	46	43	45	47	56	53	Y
161	64	65	64	65	65	36	56	56	55	58	70	58	69	56	50	67	70	61	58	53	52	58	54	55	50	64	69	Y
162	59	58	50	58	53	28	61	57	49	53	46	44	41	28	41	59	33	59	59	34	59	49	52	46	46	40	43	
163	37	47	39	42	41	23	23	44	45	47	45	45	43	49	48	52	44	49	48	54	42	47	49	40	44	48	49	Y
164	46	40	40	40	40	40	40	40	40	40	40	40	40	40	41	40	40	51	40	48	40	51	40	40	40	40	40	Y
165	49	37	37	49	51	41	31	46	46	42	43	45	42	52	54	37	39	41	21	43	41	48	41	39	55	59	55	Y
166	54	50	40	44	56	35	34	36	31	40	60	32	55	22	1	45	44	36	38	35	60	43	38	52	48	62	36	Y
167	58	56	57	58	56	42	45	52	49	40	40	40	55	49	55	40	40	41	39	37	60	58	40	42	60	44	54	Y
168	51	48	50	54	42	43	51	46	49	35	51	43	51	42	49	51	47	53	60	53	43	55	47	48	51	46	50	Y

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169	49	44	41	48	50	43	45	56	48	41	61	37	51	51	54	53	45	50	46	43	58	46	38	52	56	45	50	Y
170	54	60	57	57	58	50	53	51	49	48	58	63	61	55	54	47	55	49	51	51	55	53	54	55	42	54	53	Y
171	41	42	39	40	47	44	38	37	42	38	42	40	44	33	45	39	38	38	32	38	44	35	40	39	42	42	37	Y
172	50	53	49	50	51	34	38	45	49	39	48	44	48	49	46	54	49	48	41	43	48	46	50	42	48	51	51	Y
173	58	59	39	58	21	48	45	41	47	41	66	25	56	70	69	35	33	66	70	67	69	61	43	67	61	70	69	Y
174	43	51	44	46	39	27	48	45	38	48	44	44	55	62	50	58	56	47	58	54	50	46	43	54	46	59	70	Y
175	52	57	45	56	49	20	27	49	36	49	59	55	58	60	46	55	52	56	54	47	52	45	41	47	50	48	59	Y
176	47	46	52	42	44	59	47	47	56	48	48	45	44	45	52	47	47	47	47	47	45	51	47	46	43	45	50	Y
177	43	52	37	42	36	35	48	45	44	40	52	57	59	51	55	48	50	45	41	41	39	40	36	42	45	51	51	Y
178	52	47	48	56	50	49	39	58	60	40	10	42	40	10	10	50	22	59	34	58	64	64	57	64	64	16	16	Y
179	46	45	49	41	42	48	48	47	38	56	46	53	45	46	44	57	43	55	50	54	48	64	50	53	57	50	43	Y
180	51	51	38	50	49	56	57	50	51	40	53	43	50	53	48	60	51	50	51	41	37	39	31	39	56	56	49	Y
181	57	57	48	57	57	45	46	40	49	44	46	50	50	47	48	50	44	33	38	37	50	32	44	46	51	45	47	Y
182	67	70	64	64	64	35	56	58	36	40	70	44	70	70	67	44	41	37	39	40	28	64	40	28	31	70	70	Y
183	59	53	54	59	64	57	57	50	57	50	61	46	56	54	55	46	52	55	50	49	60	55	56	63	67	54	63	Y
184	64	42	59	56	63	37	65	32	53	22	51	53	61	50	43	63	31	37	17	48	45	61	62	35	22	42	38	Y
185	50	54	44	54	55	40	44	40	48	41	40	42	52	53	40	40	35	37	30	40	40	40	40	34	39	47	45	Y
186	49	49	38	47	48	52	38	46	41	52	34	26	47	31	57	43	50	49	37	39	38	31	32	52	31	30	Y	
187	55	47	47	40	49	14	50	37	41	41	50	16	70	26	52	51	41	43	39	27	44	26	25	47	54	50	55	Y
188	50	50	47	46	47	29	32	47	39	46	46	51	53	51	54	47	44	47	48	56	47	51	46	45	46	53	52	Y
189	51	44	48	49	50	48	47	46	53	46	42	35	52	45	44	45	52	49	51	51	45	49	48	43	42	41	42	Y
190	39	35	44	50	45	42	43	35	27	44	37	32	32	30	50	39	48	41	38	26	45	47	29	33	42	30	36	Y
191	60	48	46	63	49	39	40	52	42	31	63	59	46	49	62	61	62	55	50	60	46	62	68	48	60	61	62	Y
192	56	56	50	49	57	26	46	54	40	41	47	30	52	54	44	58	47	58	45	45	55	43	46	53	55	46	45	Y
193	52	49	53	45	40	23	46	41	38	45	47	43	55	46	47	60	57	59	55	56	44	54	45	47	51	48	46	Y
194	55	60	45	55	60	54	58	59	62	63	41	32	26	19	41	59	59	29	31	29	37	37	49	24	30	22	34	Y
195	63	51	25	59	69	49	60	50	49	36	38	65	62	28	65	70	32	49	40	60	64	54	58	45	63	66	40	Y
196	58	43	29	67	58	59	45	40	48	43	42	40	44	44	41	40	55	34	20	22	42	49	54	42	40	40	45	Y

NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
197	47	43	40	47	57	54	27	45	50	54	41	38	55	35	33	48	54	48	55	48	50	45	47	41	49	35	34	Y
198	56	40	47	51	50	26	27	60	60	45	41	45	41	38	37	65	49	56	54	40	44	34	48	42	44	36	27	Y
199	61	50	54	62	60	51	46	52	51	56	67	66	63	66	65	59	55	60	58	57	50	54	59	52	64	62	Y	
200	52	43	50	51	52	44	44	45	49	47	39	44	41	46	52	60	52	49	47	47	46	46	41	43	44	51	51	Y
201	48	46	35	40	44	43	38	40	46	32	33	40	53	40	45	36	50	41	42	31	44	44	50	49	40	40	48	Y
202	53	48	57	51	60	45	35	58	57	51	59	56	66	69	51	42	54	60	36	49	46	49	50	45	42	57	52	Y
203	45	41	44	45	41	20	41	40	50	41	43	37	56	46	53	48	47	32	44	35	47	58	46	42	46	50	38	Y
204	52	42	47	40	47	62	34	46	56	26	54	57	49	60	58	57	44	36	40	40	32	48	37	55	43	40	54	Y
205	51	45	42	43	35	41	32	41	56	36	28	29	32	51	48	37	43	43	49	46	50	60	53	56	59	39	52	Y
206	60	60	56	59	60	26	50	43	57	44	56	38	57	44	55	40	33	42	40	36	42	57	56	34	55	49	48	Y
207	51	53	52	58	54	42	47	51	41	49	54	58	54	54	56	53	52	52	48	45	49	44	45	47	51	53	54	Y
208	30	32	48	38	56	28	10	62	47	50	40	26	21	40	36	34	32	36	70	68	29	39	40	34	59	10	39	Y
209	44	44	44	42	46	42	40	47	26	22	42	37	41	37	34	35	35	40	31	31	10	41	38	38	23	48	38	Y
210	50	49	34	37	51	35	45	43	54	46	45	41	38	44	47	36	45	53	59	50	25	48	39	55	42	37	40	Y
211	62	53	54	51	62	49	49	55	52	47	56	40	43	52	48	58	67	54	55	56	58	57	57	50	55	50	56	Y
212	52	49	48	55	48	44	38	50	48	53	52	24	58	32	48	54	40	40	51	46	48	40	39	42	52	39	50	Y
213	52	47	46	32	52	43	51	46	44	42	48	49	47	54	37	49	50	52	49	53	54	40	43	45	53	51	53	Y
214	55	54	43	54	55	52	50	54	50	51	57	60	55	57	14	16	53	50	46	44	48	44	46	47	41	54	54	Y
215	54	62	56	58	51	48	51	55	49	52	63	53	53	58	57	69	65	50	56	51	64	65	58	48	62	60	58	Y
216	48	42	37	53	52	37	41	46	50	48	55	40	57	46	45	62	50	58	47	51	47	45	38	46	53	44	45	Y
217	54	36	43	57	56	47	38	40	45	45	46	44	40	54	51	59	50	54	44	44	58	42	40	40	40	46	45	Y
218	66	67	70	70	67	42	47	34	53	61	61	48	61	70	60	58	51	55	41	52	46	45	58	44	55	68	70	Y
219	65	54	60	65	59	32	59	58	33	58	62	33	65	63	63	67	65	43	55	28	54	31	55	53	57	61	60	Y
220	54	53	54	48	51	53	59	57	47	54	57	39	34	47	65	29	19	51	65	43	53	46	58	53	55	54	56	Y
221	70	70	40	70	40	70	40	40	45	40	70	62	70	60	70	70	40	48	40	46	40	58	40	40	35	70	70	N
222	40	44	35	43	45	10	40	26	24	34	54	52	50	50	54	57	58	43	40	42	43	37	51	45	51	54	51	N
223	60	52	48	51	47	35	30	37	42	36	42	16	61	35	37	65	56	39	42	42	30	29	27	39	42	43	47	Y
224	61	60	58	59	58	34	39	55	55	51	59	60	59	59	55	58	58	58	54	53	53	51	49	54	57	57	58	Y

PAGE NO.	POSTEST 1 SURVES BY CURS I UN																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
253	50	56	46	55	50	37	50	40	44	45	51	64	48	54	65	53	60	46	42	39	44	49	41	47	45	60	63	N
254	70	40	28	31	61	22	49	25	22	25	55	52	49	52	50	22	25	28	52	31	49	37	37	22	28	37	55	N
255	45	50	37	48	50	50	30	50	49	50	46	33	50	50	49	47	46	45	58	50	47	50	42	47	40	43	50	N
256	45	50	45	40	48	46	42	43	43	44	48	50	54	47	43	46	49	50	57	48	49	43	49	40	45	49	52	N
257	61	69	55	64	65	63	63	62	45	59	62	50	69	64	62	64	54	53	67	53	56	56	60	58	60	64	65	N
258	49	40	38	40	40	21	45	40	33	40	44	41	46	41	44	40	40	40	42	39	39	39	38	40	40	42	36	N
259	57	50	44	51	61	61	57	56	48	60	48	40	48	47	41	60	60	40	41	47	38	57	40	40	40	41	39	N
260	43	38	36	40	44	43	44	40	37	41	41	27	39	38	30	38	40	36	44	38	44	42	40	40	47	31	31	N
261	42	38	42	41	38	49	39	39	40	40	50	42	50	43	55	40	40	50	39	40	40	40	39	42	40	41	40	N
262	50	49	46	50	51	39	39	41	48	45	50	41	49	54	52	49	46	49	44	42	48	36	40	44	40	47	50	N
263	32	50	49	26	21	28	36	23	30	27	34	27	60	37	43	49	40	60	57	52	60	33	22	56	40	32	49	N
264	50	49	50	49	49	32	34	43	37	45	50	51	44	47	48	47	47	47	51	54	47	44	43	43	44	50	49	N
265	49	38	37	51	46	49	56	53	57	50	52	56	49	46	55	49	47	48	49	57	42	57	57	37	27	53	51	N
266	56	57	44	57	57	49	45	52	44	38	53	42	51	53	50	56	38	38	37	46	41	45	45	43	46	50	51	N
267	51	50	54	51	53	29	55	56	66	46	50	54	54	57	54	51	45	53	48	45	56	57	25	54	51	50	55	N
268	48	42	48	42	39	40	44	44	49	48	53	36	45	40	45	57	50	56	55	51	51	50	47	49	54	44	49	N
269	59	55	24	57	56	29	48	42	34	20	48	60	39	50	56	40	20	40	40	41	56	53	54	41	55	54	46	N
270	43	40	40	40	36	35	41	42	44	41	40	31	42	46	37	42	41	50	55	49	46	51	43	44	48	38	39	Y
271	25	29	27	24	38	37	26	24	21	34	26	25	23	35	25	28	22	27	28	30	41	32	20	23	33	38	26	N
272	33	22	37	43	10	20	20	23	31	29	30	52	54	25	32	34	33	33	32	36	39	38	33	33	27	26	33	N
273	52	57	36	59	30	55	38	40	33	50	60	44	55	48	47	56	56	50	37	41	55	42	40	60	37	59	50	N
274	64	66	63	64	67	61	60	62	61	65	66	66	68	68	66	61	68	62	62	62	66	66	57	59	66	63	66	N
275	60	58	48	51	49	40	42	50	50	55	57	59	53	54	57	56	54	57	58	45	37	35	34	49	49	52	50	N

P O S T E S T G R O U P S U M S

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PAGE 1

NO.	I	II	III	IV	V	VI	VII
1	269	249	181	162	184	40	41
2	296	254	271	291	283	54	56
3	225	191	218	224	208	36	39
4	235	253	218	215	200	50	50
5	333	247	214	204	123	38	44
6	244	245	224	238	226	37	39
7	283	221	273	295	296	62	57
8	110	139	160	143	168	28	31
9	233	237	221	278	222	52	51
10	207	237	211	227	235	44	47
11	255	233	211	209	195	42	41
12	241	256	269	266	258	53	51
13	268	222	258	299	246	60	60
14	276	254	248	284	259	56	56
15	303	285	274	289	317	58	60
16	238	222	247	273	254	54	54
17	204	199	204	213	201	44	44
18	259	245	273	269	283	52	52
19	266	179	255	315	225	65	52
20	263	253	232	240	245	48	49
21	286	288	289	295	267	57	52
22	246	194	238	252	179	43	57
23	208	152	146	126	170	10	16
24	230	209	222	226	230	45	53
25	210	216	193	197	190	37	38
26	246	259	268	252	221	40	53
27	286	217	233	293	247	58	48
28	260	234	208	274	240	55	50

PAGE	2	P O S T E S T G R O U P S U M S						
NO.	I	II	III	IV	V	VI	VII	
29	251	193	225	254	218	55	51	
30	246	242	199	247	265	35	40	
31	222	203	234	246	218	46	47	
32	211	220	253	268	212	53	49	
33	204	256	277	279	244	54	48	
34	272	241	249	285	251	53	58	
35	308	275	304	313	302	65	63	
36	310	251	288	287	253	60	58	
37	183	121	163	238	230	58	38	
38	182	209	254	266	214	55	59	
39	249	230	254	264	243	59	54	
40	136	144	142	167	217	26	30	
41	248	230	247	254	222	54	58	
42	218	207	224	234	211	40	44	
43	219	202	196	257	190	49	52	
44	248	246	259	239	230	70	58	
45	278	259	254	270	237	49	42	
46	187	208	215	242	233	46	50	
47	201	229	254	262	240	50	51	
48	154	149	187	236	240	53	53	
49	212	195	219	212	205	43	37	
50	278	213	267	293	203	58	53	
51	193	200	188	179	208	30	32	
52	277	271	257	248	244	43	43	
53	234	203	227	226	222	39	38	
54	235	231	255	240	238	47	50	
55	196	206	201	196	260	34	40	
56	195	208	230	227	261	47	48	

PAGE 3		POSTEST GROUP SUMS										
NO.	I	II	III	IV	V	VI	VII					
57	244	267	210	160	171	31	37					
58	195	198	206	213	209	45	45					
59	315	295	197	191	225	39	40					
60	231	242	266	307	253	56	59					
61	185	204	174	187	202	35	39					
62	225	208	210	206	210	41	40					
63	270	217	240	263	241	51	53					
64	297	283	294	299	297	56	58					
65	167	150	184	205	167	44	40					
66	244	227	239	242	239	47	47					
67	231	229	193	216	241	44	40					
68	267	183	226	279	280	55	57					
69	150	180	200	194	196	37	40					
70	247	276	239	241	228	44	40					
71	191	204	176	178	176	35	32					
72	212	184	204	179	144	31	13					
73	210	187	161	191	219	38	39					
74	250	220	250	240	230	60	60					
75	240	200	228	230	212	49	41					
76	231	217	155	169	246	38	31					
77	270	239	238	250	164	46	48					
78	175	237	158	160	172	10	22					
79	152	128	197	193	208	36	32					
80	192	193	174	146	160	22	29					
81	276	245	279	263	287	53	49					
82	218	269	252	280	146	59	60					
83	145	184	200	210	201	39	40					
84	232	218	247	245	232	49	44					

PAGE	4	P O S T E S T G R O U P S U M S									
NO.	I	II	III	IV	V	VI	VII	VI	VII	VI	VII
85	272	258	262	263	253	54	51	54	51	54	51
86	177	208	164	183	151	34	31	34	31	34	31
87	272	177	201	235	233	33	45	33	45	33	45
88	251	255	236	260	250	50	50	50	50	50	50
89	208	227	203	233	218	30	30	30	30	30	30
90	278	275	259	254	258	48	52	48	52	48	52
91	232	250	228	222	215	40	52	40	52	40	52
92	254	167	120	179	283	19	26	19	26	19	26
93	272	206	235	259	269	44	46	44	46	44	46
94	319	268	278	282	286	58	55	58	55	58	55
95	246	228	180	227	247	37	47	37	47	37	47
96	165	199	232	243	200	53	52	53	52	53	52
97	259	213	243	259	244	55	56	55	56	55	56
98	118	113	120	158	164	22	29	22	29	22	29
99	307	238	282	232	304	63	63	63	63	63	63
100	285	215	203	231	178	33	33	33	33	33	33
101	230	264	289	288	309	61	59	61	59	61	59
102	299	275	296	307	283	60	64	60	64	60	64
103	182	155	144	151	137	26	30	26	30	26	30
104	151	150	172	217	254	28	37	28	37	28	37
105	294	289	278	284	273	64	61	64	61	64	61
106	303	234	285	311	323	64	48	64	48	64	48
107	254	254	252	239	219	46	53	46	53	46	53
108	239	236	213	175	255	41	44	41	44	41	44
109	082	137	114	106	112	12	16	12	16	12	16
110	237	244	227	250	230	48	51	48	51	48	51
111	274	271	279	279	269	55	57	55	57	55	57
112	234	217	227	241	213	47	35	47	35	47	35

PAGE 5		P O ' 9 , T E S T G R O U P S U M S						
NO.	I	II	III	IV	V	VI	VII	
113	245	262	277	286	265	62	52	
114	295	240	216	304	290	66	58	
115	233	211	214	224	220	58	62	
116	220	203	231	239	259	45	47	
117	235	256	267	316	142	68	22	
118	230	199	192	206	211	44	46	
119	269	242	253	270	216	51	52	
120	225	219	148	150	222	33	30	
121	252	228	225	213	172	43	38	
122	173	158	153	179	191	28	26	
123	258	209	231	244	227	48	52	
124	231	183	230	241	207	39	39	
125	217	257	174	174	186	40	35	
126	253	236	213	237	236	42	42	
127	150	157	201	224	164	33	34	
128	226	208	199	213	234	42	38	
129	184	116	187	209	209	42	47	
130	206	169	223	262	236	53	47	
131	227	188	222	255	220	49	47	
132	234	219	260	274	260	59	50	
133	233	241	242	277	247	51	52	
134	255	278	287	286	253	67	69	
135	234	222	207	279	211	55	55	
136	223	203	250	266	137	37	54	
137	297	270	283	281	258	55	50	
138	130	187	201	224	246	33	38	
139	219	188	204	222	149	44	47	
140	238	239	200	231	221	35	38	

PAGE 6		POSTEST GROUP SUMS						
NO.	I	II	III	IV	V	VI	VII	
141	304	278	289	318	288	68	64	
142	196	224	206	238	186	47	52	
143	253	232	311	296	277	59	59	
144	210	207	202	194	179	41	37	
145	269	205	233	269	302	63	66	
146	228	223	222	194	215	37	34	
147	266	232	250	247	266	58	62	
148	165	223	139	207	257	20	16	
149	267	207	196	235	244	51	58	
150	255	239	256	249	229	45	53	
151	279	270	256	258	243	51	50	
152	172	159	098	097	155	10	18	
153	254	277	276	275	254	53	54	
154	274	239	196	177	169	41	36	
155	232	252	271	282	288	52	55	
156	250	211	210	233	215	40	42	
157	191	122	166	189	180	41	55	
158	234	219	238	239	258	41	39	
159	282	247	230	257	293	43	54	
160	254	204	253	259	255	56	53	
161	323	268	310	312	294	64	69	
162	278	248	233	202	244	40	43	
163	206	176	225	236	237	48	49	
164	206	202	202	201	219	40	40	
165	223	215	218	224	185	59	55	
166	244	192	218	207	213	62	36	
167	285	244	224	239	217	44	54	
168	245	231	229	240	256	46	50	

PAGE 7 POST EST GROUP SUMS

QA	I	II	III	IV	V	VI	VII
169	232	242	238	254	242	45	50
170	286	261	279	272	261	54	53
171	209	208	206	199	190	42	37
172	253	217	228	246	229	51	51
173	235	202	235	263	305	70	69
174	223	197	229	281	265	59	70
175	259	181	257	271	261	48	59
176	231	253	241	235	233	45	50
177	210	208	252	263	216	51	51
178	253	256	192	132	237	16	16
179	223	223	238	235	250	50	43
180	239	263	237	262	230	56	49
181	276	237	239	239	202	45	47
182	329	249	260	232	185	70	70
183	289	285	270	263	266	54	63
184	284	250	240	248	178	42	38
185	257	227	223	225	182	47	45
186	231	225	200	215	218	31	30
187	238	191	218	240	194	50	55
188	240	194	235	249	242	53	52
189	242	244	228	238	248	41	42
190	213	192	172	199	198	30	36
191	266	222	241	280	273	61	62
192	268	223	210	255	250	46	45
193	239	188	228	265	271	48	46
194	275	293	224	204	185	22	34
195	267	277	250	257	245	66	40
196	255	250	217	224	173	40	45

PAGE 8		POSTEST GROUP SUMS									
NO.	I	II	III	IV	V	VI	VII	VIII	IX	X	
197	234	233	238	231	255	35	34	34	34	34	
198	244	223	232	230	243	36	27	27	27	27	
199	287	260	303	318	289	64	62	62	62	62	
200	248	234	220	251	241	51	51	51	51	51	
201	213	211	204	224	208	48	48	48	48	48	
202	269	255	289	282	245	57	52	52	52	52	
203	216	192	227	250	205	50	38	38	38	38	
204	228	245	242	268	192	40	54	54	54	54	
205	216	205	182	212	231	39	52	52	52	52	
206	295	236	252	229	193	49	48	48	48	48	
207	268	235	256	269	246	53	54	54	54	54	
208	204	203	184	163	235	10	39	39	39	39	
209	218	177	179	181	153	38	38	38	38	38	
210	221	228	224	210	232	37	40	40	40	40	
211	232	267	238	..B	290	50	56	56	56	56	
212	252	228	235	232	225	39	50	50	50	50	
213	229	236	230	237	258	51	53	53	53	53	
214	261	261	273	275	241	54	54	54	54	54	
215	281	254	270	302	286	60	58	58	58	58	
216	232	226	250	260	253	44	45	45	45	45	
217	246	226	220	254	250	46	45	45	45	45	
218	340	243	284	300	245	68	70	70	70	70	
219	303	241	251	323	245	61	60	60	60	60	
220	266	267	231	194	237	54	56	56	56	56	
221	320	265	287	310	214	70	70	70	70	70	
222	207	145	214	269	226	54	51	51	51	51	
223	258	191	197	254	209	43	47	47	47	47	
224	236	241	284	289	276	57	58	58	58	58	

NO.	I	II	III	IV	V	VI	VII
225	200	199	200	194	189	38	41
226	191	179	151	154	149	35	36
227	207	187	238	248	229	48	42
228	268	215	238	257	230	47	45
229	211	177	207	244	220	50	53
230	305	193	288	318	258	70	63
231	240	202	166	203	254	35	32
232	170	226	240	276	228	45	57
233	224	206	218	221	220	39	42
234	286	223	229	240	236	50	48
235	255	189	207	228	231	45	52
236	311	230	304	313	317	57	59
237	070	080	081	103	197	20	10
238	203	183	193	189	184	37	32
239	181	180	186	192	190	39	40
240	294	286	283	255	267	59	59
241	257	228	281	268	268	55	52
242	196	222	204	211	258	40	42
243	197	168	198	218	222	35	39
244	246	150	181	271	255	28	65
245	201	212	192	173	170	45	43
246	236	216	241	261	277	49	51
247	234	205	227	222	232	36	43
248	244	173	232	250	225	51	47
249	319	175	277	255	272	63	64
250	277	206	139	153	224	20	19
251	281	234	256	244	239	62	66
252	227	252	248	255	244	50	53

PAGE 10		POST EGT GROUP SUMS									
NO.	I	II	III	IV	V	VI	VII				
253	257	221	252	280	231	60	63				
254	230	179	203	206	185	37	55				
255	230	229	228	242	246	43	50				
256	228	222	239	239	253	49	52				
257	314	298	285	313	283	64	65				
258	207	179	204	211	200	42	36				
259	263	283	244	256	226	41	39				
260	201	208	185	185	202	31	31				
261	201	205	222	228	209	41	40				
262	246	218	233	250	229	47	50				
263	178	138	178	229	269	32	49				
264	247	195	227	233	256	50	49				
265	221	261	264	246	243	53	51				
266	271	247	228	248	200	50	51				
267	259	259	270	261	247	50	55				
268	219	216	231	237	263	44	49				
269	251	209	201	205	197	54	46				
270	199	198	198	208	241	38	39				
271	143	146	129	133	148	38	26				
272	145	104	196	178	183	26	33				
273	234	196	242	262	239	59	50				
274	324	311	326	331	320	63	66				
275	266	231	274	274	251	52	50				

65675 60708 62284 65705 63134 12755 12901
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