Execution Environment

Author: sasdemo

File: /folders/myfolders/HW124/FinalProject/FinalProject.sas

SAS Platform: Linux LIN X64 2.6.32-754.6.3.el6.x86_64

SAS Host: LOCALHOST SAS Version: 9.04.01M6P11072018

SAS Locale: en_US

Submission Time: 2/26/2020, 7:48:01 PM

Browser Host: 10.0.2.2

User Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/80.0.3987.87 Safari/537.36

Application Server: LOCALHOST.LOCALDOMAIN

Code: FinalProject.sas

```
/*Import FormA csv file into SAS as work.FormA */
proc import datafile = "/folders/myfolders/HW124/FinalProject/FormA.csv" dbms=csv
   out = work.FormA replace;
run;
/*Import FormB csv file into SAS as work.FormB */
proc import datafile = "/folders/myfolders/HW124/FinalProject/FormB.csv" dbms=csv
   out = work.FormB replace;
run;
/*Import Domains_FormB csv file into SAS as work.Domains_FormB */
proc import datafile = "/folders/myfolders/HW124/FinalProject/Domains FormB.csv" dbms=csv
   out = work.Domains_FormB replace;
run;
/*Import Domains_FormA csv file into SAS as work.Domains_FormA */
proc import datafile = "/folders/myfolders/HW124/FinalProject/Domains FormA.csv" dbms=csv
   out = work.Domains_FormA replace;
run;
/*Set macro variable to create Form A or Form B */
%let file_form = A;
/*create two tables (one for form A and one for form B) that display whether students got each question correct */
/*Part 1 */
data correct&file_form;
   set Form&file_form;
    array Form&file form(150) $ 01-0150;
    array answer(150) $ Answer1-Answer150;
    retain Answer1-Answer150;
    Form = "&file_form";
    if Student = "BBBBKEY" or Student = "AAAAKEY" then do i = 1 to 150;
        answer(i) = Form&file_form(i);
    end;
    else do Question = 1 to 150;
        if answer(Question) = Form&file_form(Question) then Scores = 1;
        else Scores = 0;
        keep Student Scores Question Form;
        output;
    end;
run:
/* proc print data = correct&file_form (OBS = 10) noobs; */
/* run; */
/*Part 2 */
/*Merge the two tables (FormA and Domains_FormA) */
proc sql;
    create table work.Form_merged_&file_form as
    select Question, Scores, Student, Form, DomainNum
    from correct&file_form inner join Domains_Form&file_form
```

```
on Question = QuestionNum;
run;
/*Print merged employees and employees_sales table */
/* title "FormA and Domains FormA Merged"; */
/* proc print data = work.Form_merged_&file_form noobs; */
/* run; */
/*Part 3 */
/*Combine the two tables (Form_merged_A and Form_merged_B) into one table (Form_AB) */
data Form_AB;
   set Form_merged_A Form_merged_B;
    output Form_AB;
run:
/*Part 4 */
/*Calculate the totalscore and percent for each student.Also calculate the student's score and percentage foreach of the five
proc means data = Form_AB mean sum nonobs noprint;
   var Scores;
   class Student DomainNum;
   id Question Form;
   output out = means_Form_AB mean = percent sum = Student_Scores;
run:
/*Delete missing values, change Student to numeric, and keep variables */
data means_Form_AB;
   set means_Form_AB;
    Student = input(Student, 8.);
   if Student <= .Z then delete;</pre>
   keep percent Student_Scores Student Form DomainNum
run;
/*Part 5 */
/*Sort the table created in Step 4 (means_Form_AB) by Student */
proc sort data = means_Form_AB out = sorted_Form_AB;
   by Student;
run;
/* proc print data= sorted_Form_AB; */
/* run; */
/*Part 6 */
*Using the table (wide_sorted), create another table where each row contains all of the student scores/percentages (converti
data wide sorted;
    set sorted_Form_AB;
    array sorted array(*) TotalPer TotalScore D1Per D1Score D2Per D2Score D3Per D3Score D4Per D4Score D5Per D5Score;
   retain TotalPer TotalScore D1Per D1Score D2Per D2Score D3Per D3Score D4Per D4Score D5Per D5Score;
   by Student:
   if first.Student then i = 0;
   i + 1;
   sorted_array(i) = percent;
    i + 1;
    sorted_array(i) = Student_Scores;
    if last.Student then output;
   drop i;
run:
/*Part 7 */
/*Create side-by-side boxplots of the five domains using student percentages as the response */
/* proc sgplot data=sorted_Form_AB; */
/* vbox percent/category=DomainNum; */
/* xaxis label = "Domain"; */
/* yaxis label = "Percent"; */
/* run; */
/*Part 8 */
/*Calculate the percentage correct for each question */
proc means data = Form AB mean nonobs noprint;
   var Scores;
    class Question Form;
    id Question Form;
    output out = means_Question mean = Scores;
run:
/*Delete missing data */
```

```
data clean_Question;
    set means_Question;
    if Form = ' ' then delete;
    if Question <= .Z then delete;</pre>
run:
/*Sorted data by Form */
proc sort data = clean_Question out = sorted_Question;
   by Form;
run:
/* proc print data= sorted_Question; */
/* run; */
/*Part 9 */
/*Output as pdf file */
/*Create a final report with two sections as described below */
ods pdf file = "/folders/myfolders/HW124/FinalProject/FinalProject.pdf";
options orientation=landscape;
options nodate nonumber;
/*Reorder columns, set format as percentae, and label columns*/
data reorder_wide_sorted;
    retain Student Form TotalScore TotalPer D1Score D2Score D3Score D4Score D5Score D1Per D2Per D3Per D4Per D5Per;
    set wide_sorted;
    format TotalPer D1Per D1Per D2Per D3Per D4Per D5Per percent10.1;
    label TotalScore = "Overall Score" TotalPer = "Overall Percentage" D1Score = "Domain 1 Score" D1Per = "Domain 1 Percentage"
/*Print a table sorted by Student ID */
title "Section A: Student Scores Sorted by Student ID";
proc print data = reorder_wide_sorted (drop = percent DomainNum Student_Scores ) noobs label;
run:
/*Reorder columns, set format percentage, and label columns*/
data order_wide_sorted;
    retain Student Form TotalPer TotalScore D1Per D2Per D3Per D4Per D5Per D1Score D2Score D3Score D4Score D5Score;
    set wide_sorted;
    format TotalPer D1Per D1Per D2Per D3Per D4Per D5Per percent10.1;
    label TotalScore = "Overall Score" TotalPer = "Overall Percentage" D1Score = "Domain 1 Score" D1Per = "Domain 1 Percentage"
/*Sort data by Overall Percentage (TotalPer) */
proc sort data = order_wide_sorted out = percent_wide_sorted;
by descending Totalper;
run;
/*Print a table (percent wide sorted) sorted by overall percentage */
title "Section A: Student Scores Sorted Highest to Lowest Overall Score";
proc print data = percent_wide_sorted (drop = percent DomainNum Student_Scores ) noobs label;
run;
/*Create side-by-side boxplots of the five domains using student percentages as the response */
title "Section A: Student Scores Boxplots of Student Percentages for the Five Domains";
proc sgplot data=sorted_Form AB;
    vbox percent/category=DomainNum;
    xaxis label = "Domain";
    yaxis label = "Percent";
run;
/*Reorder columns, set format percentage, and label columns */
data reorder_clean_Question;
   retain Form Question Scores;
    set clean_Question;
    format Scores percent10.1;
    label Question = "Question Number" Scores = "Question Percentage";
run:
/*Sort reorder_clean_Question by Form */
proc sort data = reorder clean Question out = sorted clean Question;
by Form;
run;
/*Print a table (sorted_clean_Question ) sorted by exam form then by question number
title "Section B: Question Analysis Sorted by Exam Form and Question Number";
proc print data = sorted_clean_Question (drop= _type_ _freq_) noobs label;
run;
```

```
/*reorder columns, set percent formats, and label columns*/
data order_clean_Question;
   retain Scores Form Question;
    set clean_Question;
    format Scores percent10.1;
    label Question = "Question Number" Scores = "Question Percentage";
run:
/*Sort order_clean_Question by Scores and then Form */
proc sort data = order_clean_Question out = sorted_easy_Question;
by descending Scores Form;
run;
/*Print a table (sorted_easy_Question) sorted by question percentage (easiest to hardest)
title "Section B: Question Analysis Sorted by Question Percentage";
proc print data = sorted_easy_Question (drop = _type_ _freq_) noobs label;
run;
/*End of pdf file*/
ods pdf close;
```

Log: FinalProject.sas

132 informat Q43 \$1.;

```
Notes (3)
79 * PRODUCT: SAS
80 * VERSION: 9.4
81 * CREATOR: External File Interface
82 * DATE: 27FEB20
83 * DESC: Generated SAS Datastep Code
84 * TEMPLATE SOURCE: (None Specified.)
86 data WORK.FORMA;
87 %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
88\ infile\ \overline{\ '} folders/\overline{my} folders/HW124/FinalProject/FormA.csv'\ delimiter\ =\ ','\ MISSOVER\ DSD\ Irecl=32767\ firstobs=2\ ;
89 informat Student $7.;
90 informat Q1 $1.
91 informat Q2 $1.
92 informat Q3 $1.
93 informat Q4 $1.
94 informat Q5 $1.
95 informat Q6 $1.;
96 informat Q7 $1.
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130 informat Q41 $1.;
131 informat Q42 $1.;
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239 informat Q150 $1.;
240 format Student $7.;
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389 format Q149 $1.;
390 format Q150 $1.;
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NOTE: 51 records were read from the infile '/folders/myfolders/HW124/FinalProject/FormA.csv'.

The maximum record length was 307.

NOTE: The data set WORK.FORMA has 51 observations and 151 variables.

Results: FinalProject.sas

The minimum record length was 301.

Section A: Student Scores Sorted by Student ID

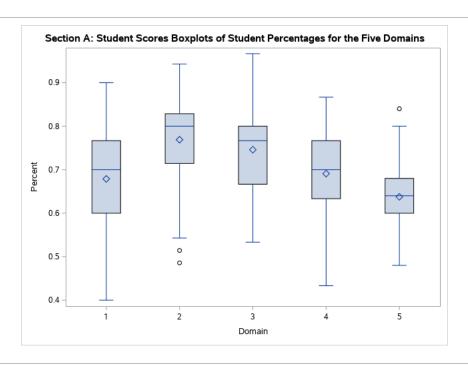
						Section A:	Student Sco	res Sortea	by Student ID				
Student	Form	Overall Score	Overall Percentage	Domain 1 Score	Domain 2 Score	Domain 3 Score	Domain 4 Score	Domain 5 Score	Domain 1 Percentage	Domain 2 Percentage	Domain 3 Percentage	Domain 4 Percentage	Domain 5 Percentage
1	Α	103	68.7%	17	24	25	24	13	56.7%	68.6%	83.3%	80.0%	52.0%
2	В	121	80.7%	26	31	25	24	15	86.7%	88.6%	83.3%	80.0%	60.0%
3	Α	101	67.3%	19	25	23	18	16	63.3%	71.4%	76.7%	60.0%	64.0%
4	В	114	76.0%	22	31	25	21	15	73.3%	88.6%	83.3%	70.0%	60.0%
5	Α	114	76.0%	22	28	26	23	15	73.3%	80.0%	86.7%	76.7%	60.0%
6	В	108	72.0%	19	29	20	23	17	63.3%	82.9%	66.7%	76.7%	68.0%
7	Α	123	82.0%	24	31	25	26	17	80.0%	88.6%	83.3%	86.7%	68.0%
8	В	94	62.7%	16	24	19	18	17	53.3%	68.6%	63.3%	60.0%	68.0%
9	Α	102	68.0%	20	26	20	22	14	66.7%	74.3%	66.7%	73.3%	56.0%
10	В	103	68.7%	25	22	23	20	13	83.3%	62.9%	76.7%	66.7%	52.0%
11	Α	101	67.3%	20	27	22	19	13	66.7%	77.1%	73.3%	63.3%	52.0%
12	В	107	71.3%	18	30	23	19	17	60.0%	85.7%	76.7%	63.3%	68.0%
13	Α	107	71.3%	19	22	23	23	20	63.3%	62.9%	76.7%	76.7%	80.0%
14	В	105	70.0%	17	29	23	21	15	56.7%	82.9%	76.7%	70.0%	60.0%
15	Α	110	73.3%	23	26	23	21	17	76.7%	74.3%	76.7%	70.0%	68.0%
16	В	115	76.7%	23	29	25	20	18	76.7%	82.9%	83.3%	66.7%	72.0%
17	Α	119	79.3%	24	30	26	23	16	80.0%	85.7%	86.7%	76.7%	64.0%
18	В	104	69.3%	24	29	23	16	12	80.0%	82.9%	76.7%	53.3%	48.0%
19	Α	87	58.0%	18	19	18	16	16	60.0%	54.3%	60.0%	53.3%	64.0%
20	В	118	78.7%	25	29	23	24	17	83.3%	82.9%	76.7%	80.0%	68.0%
21	Α	99	66.0%	19	24	21	21	14	63.3%	68.6%	70.0%	70.0%	56.0%
22	В	99	66.0%	20	27	22	15	15	66.7%	77.1%	73.3%	50.0%	60.0%

Student	Form	Overall Score	Overall Percentage	Domain 1 Score	Domain 2 Score	Domain 3 Score	Domain 4 Score	Domain 5 Score	Domain 1 Percentage	Domain 2 Percentage	Domain 3 Percentage	Domain 4 Percentage	Domain 5 Percentage
23	Α	115	76.7%	22	26	28	21	18	73.3%	74.3%	93.3%	70.0%	72.0%
24	В	84	56.0%	15	22	17	18	12	50.0%	62.9%	56.7%	60.0%	48.0%
25	A B	114	76.0% 75.3%	23	29	25 23	21	16 18	76.7% 73.3%	82.9% 71.4%	83.3% 76.7%	70.0% 83.3%	72.0%
27	A	92	61.3%	13	27	16	22	14	43.3%	77.1%	53.3%	73.3%	56.0%
28	В	98	65.3%	18	30	20	18	12	60.0%	85.7%	66.7%	60.0%	48.0%
29	Α	102	68.0%	18	24	22	21	17	60.0%	68.6%	73.3%	70.0%	68.0%
30	В	99	66.0%	18	20	23	22	16	60.0%	57.1%	76.7%	73.3%	64.0%
31	A B	106 78	70.7% 52.0%	18	28	23 16	23	14	60.0% 40.0%	80.0% 57.1%	76.7% 53.3%	76.7% 46.7%	56.0% 64.0%
33	A	91	60.7%	17	24	20	16	14	56.7%	68.6%	66.7%	53.3%	56.0%
34	В	101	67.3%	21	27	19	17	17	70.0%	77.1%	63.3%	56.7%	68.0%
35	Α	115	76.7%	24	26	26	22	17	80.0%	74.3%	86.7%	73.3%	68.0%
36	В	117	78.0%	25	31	25	22	14	83.3%	88.6%	83.3%	73.3%	56.0%
37	A B	113	75.3%	21	27 25	25 23	23	17	70.0%	77.1%	83.3%	76.7%	68.0% 52.0%
38	A	92	61.3% 78.0%	18 25	26	29	13	13 16	60.0% 83.3%	71.4% 74.3%	76.7% 96.7%	43.3% 70.0%	64.0%
40	В	96	64.0%	15	25	20	17	19	50.0%	71.4%	66.7%	56.7%	76.0%
41	Α	95	63.3%	14	25	17	20	19	46.7%	71.4%	56.7%	66.7%	76.0%
42	В	112	74.7%	24	29	23	22	14	80.0%	82.9%	76.7%	73.3%	56.0%
43	A	118	78.7%	22	31	23	26	16	73.3%	88.6%	76.7%	86.7%	64.0%
44	B A	85 100	56.7% 66.7%	17	21	19 24	15 19	13	56.7% 63.3%	60.0% 71.4%	63.3% 80.0%	50.0% 63.3%	52.0% 52.0%
46	В	105	70.0%	21	27	22	21	14	70.0%	77.1%	73.3%	70.0%	56.0%
47	A	96	64.0%	15	24	18	21	18	50.0%	68.6%	60.0%	70.0%	72.0%
48	В	121	80.7%	27	31	24	23	16	90.0%	88.6%	80.0%	76.7%	64.0%
49	Α	114	76.0%	21	29	24	23	17	70.0%	82.9%	80.0%	76.7%	68.0%
50	В	99	66.0%	19	25	21	20	14	63.3%	71.4%	70.0%	66.7%	56.0%
51	A	113	75.3%	20	30	23	22	18	66.7%	85.7%	76.7%	73.3%	72.0%
52	B A	104 98	69.3% 65.3%	21 19	28	21	17 20	17 15	70.0% 63.3%	80.0% 57.1%	70.0% 80.0%	56.7% 66.7%	68.0%
54	В	126	84.0%	25	33	26	25	17	83.3%	94.3%	86.7%	83.3%	68.0%
55	A	123	82.0%	26	29	25	24	19	86.7%	82.9%	83.3%	80.0%	76.0%
56	В	104	69.3%	22	29	20	21	12	73.3%	82.9%	66.7%	70.0%	48.0%
57	Α	103	68.7%	17	27	21	19	19	56.7%	77.1%	70.0%	63.3%	76.0%
58	В	99	66.0%	20	24	18	21	16	66.7%	68.6%	60.0%	70.0%	64.0%
59	A B	119	79.3%	21	29	25	25	19	70.0%	82.9%	83.3%	83.3%	76.0%
60	A	116 106	77.3% 70.7%	22 17	32 25	22	23	17	73.3% 56.7%	91.4% 71.4%	73.3% 86.7%	76.7% 70.0%	68.0%
62	В	91	60.7%	16	26	20	14	15	53.3%	74.3%	66.7%	46.7%	60.0%
63	Α	97	64.7%	19	24	25	17	12	63.3%	68.6%	83.3%	56.7%	48.0%
65	Α	122	81.3%	23	33	24	24	18	76.7%	94.3%	80.0%	80.0%	72.0%
66	В	107	71.3%	22	28	22	19	16	73.3%	80.0%	73.3%	63.3%	64.0%
67	A	122	81.3%	25	29	25	24	19	83.3%	82.9%	83.3%	80.0%	76.0%
68	B A	108 119	72.0% 79.3%	21	29	22	21	15 18	70.0% 80.0%	82.9% 82.9%	73.3% 80.0%	70.0% 80.0%	60.0% 72.0%
70	В	103	68.7%	16	30	20	22	15	53.3%	85.7%	66.7%	73.3%	60.0%
71	Α	88	58.7%	17	18	18	19	16	56.7%	51.4%	60.0%	63.3%	64.0%
72	В	110	73.3%	22	31	23	19	15	73.3%	88.6%	76.7%	63.3%	60.0%
73	Α	117	78.0%	24	28	28	21	16	80.0%	80.0%	93.3%	70.0%	64.0%
74	В	108	72.0%	18	30	21	23	16	60.0%	85.7%	70.0%	76.7%	64.0%
75 76	A B	119	79.3% 74.7%	22	29	26 20	26 21	16 19	73.3% 80.0%	82.9% 80.0%	86.7% 66.7%	86.7% 70.0%	64.0% 76.0%
77	A	112	58.7%	13	28	20	15	17	43.3%	65.7%	66.7%	70.0% 50.0%	68.0%
78	В	115	76.7%	22	29	24	21	19	73.3%	82.9%	80.0%	70.0%	76.0%
79	Α	120	80.0%	25	31	23	24	17	83.3%	88.6%	76.7%	80.0%	68.0%
80	В	106	70.7%	20	26	22	23	15	66.7%	74.3%	73.3%	76.7%	60.0%
81	A	122	81.3%	21	32	26	26	17	70.0%	91.4%	86.7%	86.7%	68.0%
82	В	122	81.3%	23	30	23	25	21	76.7%	85.7%	76.7%	83.3%	84.0%
83	A B	112 102	74.7% 68.0%	20	29 26	19	25 18	19 15	66.7% 83.3%	82.9% 74.3%	63.3%	83.3% 60.0%	76.0% 60.0%
85	A	88	58.7%	17	25	17	15	14	56.7%	71.4%	56.7%	50.0%	56.0%
86	В	106	70.7%	21	32	21	17	15	70.0%	91.4%	70.0%	56.7%	60.0%
87	Α	104	69.3%	22	21	23	22	16	73.3%	60.0%	76.7%	73.3%	64.0%
88	В	101	67.3%	15	24	23	23	16	50.0%	68.6%	76.7%	76.7%	64.0%
89	A	106	70.7%	20	28	22	18	18	66.7%	80.0%	73.3%	60.0%	72.0%
90	B A	101	67.3% 74.0%	17	30 27	24	15 24	15 12	56.7% 80.0%	85.7% 77.1%	80.0% 80.0%	50.0% 80.0%	60.0% 48.0%
91	В	117	74.0%	24	28	24	22	17	80.0%	80.0%	86.7%	73.3%	68.0%
93	A	100	66.7%	20	21	19	24	16	66.7%	60.0%	63.3%	80.0%	64.0%
94	В	108	72.0%	23	32	20	16	17	76.7%	91.4%	66.7%	53.3%	68.0%
95	Α	96	64.0%	17	22	21	21	15	56.7%	62.9%	70.0%	70.0%	60.0%
96	В	112	74.7%	23	29	23	21	16	76.7%	82.9%	76.7%	70.0%	64.0%
97	A	117	78.0%	20	29	28	24	16	66.7%	82.9%	93.3%	80.0%	64.0%
98	В	79	52.7%	15	17	19	14	14	50.0%	48.6%	63.3%	46.7%	56.0%
100	A B	106 110	70.7% 73.3%	18	26 28	23	23	16 17	60.0% 80.0%	74.3% 80.0%	76.7% 66.7%	76.7% 70.0%	64.0%
		110	10.070		20	20		17	00.078	30.070	30.770	70.070	30.070

Section A: Student Scores Sorted Highest to Lowest Overall Score

Student	Form	Overall Percentage	Overall Score	Domain 1 Percentage	Domain 2 Percentage	Domain 3 Percentage	Domain 4 Percentage	Domain 5 Percentage	Domain 1 Score	Domain 2 Score	Domain 3 Score	Domain 4 Score	Domain 5 Score
54	В	84.0%	126	83.3%	94.3%	86.7%	83.3%	68.0%	25	33	26	25	17
7	Α	82.0%	123	80.0%	88.6%	83.3%	86.7%	68.0%	24	31	25	26	17
55	Α	82.0%	123	86.7%	82.9%	83.3%	80.0%	76.0%	26	29	25	24	19
65	Α	81.3%	122	76.7%	94.3%	80.0%	80.0%	72.0%	23	33	24	24	18
67	A	81.3%	122	83.3%	82.9%	83.3%	80.0%	76.0%	25	29	25	24	19
81	В	81.3% 81.3%	122	70.0% 76.7%	91.4% 85.7%	86.7% 76.7%	86.7% 83.3%	68.0% 84.0%	21	32 30	26 23	26 25	17
2	В	80.7%	121	86.7%	88.6%	83.3%	80.0%	60.0%	26	31	25	25	21 15
48	В	80.7%	121	90.0%	88.6%	80.0%	76.7%	64.0%	27	31	24	23	16
79	A	80.0%	120	83.3%	88.6%	76.7%	80.0%	68.0%	25	31	23	24	17
17	Α	79.3%	119	80.0%	85.7%	86.7%	76.7%	64.0%	24	30	26	23	16
59	Α	79.3%	119	70.0%	82.9%	83.3%	83.3%	76.0%	21	29	25	25	19
69	Α	79.3%	119	80.0%	82.9%	80.0%	80.0%	72.0%	24	29	24	24	18
75	Α	79.3%	119	73.3%	82.9%	86.7%	86.7%	64.0%	22	29	26	26	16
20	В	78.7%	118	83.3%	82.9%	76.7%	80.0%	68.0%	25	29	23	24	17
43	Α	78.7%	118	73.3%	88.6%	76.7%	86.7%	64.0%	22	31	23	26	16
36	В	78.0%	117	83.3%	88.6%	83.3%	73.3%	56.0%	25	31	25	22	14
39 73	A	78.0% 78.0%	117	83.3% 80.0%	74.3%	96.7%	70.0% 70.0%	64.0% 64.0%	25 24	26 28	29 28	21	16
92	В	78.0%	117	80.0%	80.0% 80.0%	86.7%	70.0%	68.0%	24	28	26	22	16
97	A	78.0%	117	66.7%	82.9%	93.3%	80.0%	64.0%	20	29	28	24	16
60	В	77.3%	116	73.3%	91.4%	73.3%	76.7%	68.0%	22	32	22	23	17
16	В	76.7%	115	76.7%	82.9%	83.3%	66.7%	72.0%	23	29	25	20	18
23	Α	76.7%	115	73.3%	74.3%	93.3%	70.0%	72.0%	22	26	28	21	18
35	Α	76.7%	115	80.0%	74.3%	86.7%	73.3%	68.0%	24	26	26	22	17
78	В	76.7%	115	73.3%	82.9%	80.0%	70.0%	76.0%	22	29	24	21	19
4	В	76.0%	114	73.3%	88.6%	83.3%	70.0%	60.0%	22	31	25	21	15
5	Α	76.0%	114	73.3%	80.0%	86.7%	76.7%	60.0%	22	28	26	23	15
25	Α	76.0%	114	76.7%	82.9%	83.3%	70.0%	64.0%	23	29	25	21	16
49	Α	76.0%	114	70.0%	82.9%	80.0%	76.7%	68.0%	21	29	24	23	17
26	В	75.3%	113	73.3%	71.4%	76.7%	83.3%	72.0%	22	25	23	25	18
37	A	75.3%	113	70.0%	77.1%	83.3%	76.7%	68.0%	21	27	25	23	17
51 42	В	75.3% 74.7%	113	66.7% 80.0%	85.7% 82.9%	76.7% 76.7%	73.3% 73.3%	72.0% 56.0%	20	30 29	23	22	18
76	В	74.7%	112	80.0%	80.0%	66.7%	70.0%	76.0%	24	28	20	21	19
83	A	74.7%	112	66.7%	82.9%	63.3%	83.3%	76.0%	20	29	19	25	19
96	В	74.7%	112	76.7%	82.9%	76.7%	70.0%	64.0%	23	29	23	21	16
91	Α	74.0%	111	80.0%	77.1%	80.0%	80.0%	48.0%	24	27	24	24	12
15	Α	73.3%	110	76.7%	74.3%	76.7%	70.0%	68.0%	23	26	23	21	17
72	В	73.3%	110	73.3%	88.6%	76.7%	63.3%	60.0%	22	31	23	19	15
100	В	73.3%	110	80.0%	80.0%	66.7%	70.0%	68.0%	24	28	20	21	17
6	В	72.0%	108	63.3%	82.9%	66.7%	76.7%	68.0%	19	29	20	23	17
68	В	72.0%	108	70.0%	82.9%	73.3%	70.0%	60.0%	21	29	22	21	15
74	В	72.0%	108	60.0%	85.7%	70.0%	76.7%	64.0%	18	30	21	23	16
94	В	72.0% 71.3%	108	76.7% 60.0%	91.4% 85.7%	66.7% 76.7%	53.3% 63.3%	68.0% 68.0%	23	32 30	20	16	17
13	A	71.3%	107	63.3%	62.9%	76.7%	76.7%	80.0%	19	22	23	23	20
66	В	71.3%	107	73.3%	80.0%	73.3%	63.3%	64.0%	22	28	22	19	16
31	A	70.7%	106	60.0%	80.0%	76.7%	76.7%	56.0%	18	28	23	23	14
61	Α	70.7%	106	56.7%	71.4%	86.7%	70.0%	68.0%	17	25	26	21	17
80	В	70.7%	106	66.7%	74.3%	73.3%	76.7%	60.0%	20	26	22	23	15
86	В	70.7%	106	70.0%	91.4%	70.0%	56.7%	60.0%	21	32	21	17	15
89	Α	70.7%	106	66.7%	80.0%	73.3%	60.0%	72.0%	20	28	22	18	18
99	Α	70.7%	106	60.0%	74.3%	76.7%	76.7%	64.0%	18	26	23	23	16
14	В	70.0%	105	56.7%	82.9%	76.7%	70.0%	60.0%	17	29	23	21	15
46	В	70.0%	105	70.0%	77.1%	73.3%	70.0%	56.0%	21	27	22	21	14
18	В	69.3%	104	80.0%	82.9%	76.7%	53.3%	48.0%	24	29	23	16	12
52 56	В	69.3% 69.3%	104	70.0%	80.0% 82.9%	70.0% 66.7%	56.7% 70.0%	68.0% 48.0%	21	28 29	21	17	17
87	A	69.3%	104	73.3%	60.0%	76.7%	70.0%	64.0%	22	29	23	22	16
1	A	68.7%	104	56.7%	68.6%	83.3%	80.0%	52.0%	17	24	25	24	13
10	В	68.7%	103	83.3%	62.9%	76.7%	66.7%	52.0%	25	22	23	20	13
57	Α	68.7%	103	56.7%	77.1%	70.0%	63.3%	76.0%	17	27	21	19	19
70	В	68.7%	103	53.3%	85.7%	66.7%	73.3%	60.0%	16	30	20	22	15
9	Α	68.0%	102	66.7%	74.3%	66.7%	73.3%	56.0%	20	26	20	22	14
29	Α	68.0%	102	60.0%	68.6%	73.3%	70.0%	68.0%	18	24	22	21	17
84	В	68.0%	102	83.3%	74.3%	60.0%	60.0%	60.0%	25	26	18	18	15
3	Α	67.3%	101	63.3%	71.4%	76.7%	60.0%	64.0%	19	25	23	18	16
11	Α	67.3%	101	66.7%	77.1%	73.3%	63.3%	52.0%	20	27	22	19	13
34	В	67.3%	101	70.0%	77.1%	63.3%	56.7%	68.0%	21	27	19	17	17
88	В	67.3%	101	50.0%	68.6%	76.7%	76.7%	64.0%	15	24	23	23	16
90	В	67.3%	101	56.7%	85.7%	80.0%	50.0%	60.0%	17	30	24	15	15
45 93	A	66.7% 66.7%	100	63.3% 66.7%	71.4%	80.0% 63.3%	63.3% 80.0%	52.0% 64.0%	19	25 21	24 19	19	13 16
21	A	66.0%	99	63.3%	68.6%	70.0%	70.0%	56.0%	19	21	21	24	14
22	В	66.0%	99	66.7%	77.1%	73.3%	50.0%	60.0%	20	27	22	15	15
30	В	66.0%	99	60.0%	57.1%	76.7%	73.3%	64.0%	18	20	23	22	16
50	В	66.0%	99	63.3%	71.4%	70.0%	66.7%	56.0%	19	25	21	20	14
					- 1								

Student	Form	Overall Percentage	Overall Score	Domain 1 Percentage	Domain 2 Percentage	Domain 3 Percentage	Domain 4 Percentage	Domain 5 Percentage	Domain 1 Score	Domain 2 Score	Domain 3 Score	Domain 4 Score	Domain 5 Score
58	В	66.0%	99	66.7%	68.6%	60.0%	70.0%	64.0%	20	24	18	21	16
28	В	65.3%	98	60.0%	85.7%	66.7%	60.0%	48.0%	18	30	20	18	12
53	Α	65.3%	98	63.3%	57.1%	80.0%	66.7%	60.0%	19	20	24	20	15
63	Α	64.7%	97	63.3%	68.6%	83.3%	56.7%	48.0%	19	24	25	17	12
40	В	64.0%	96	50.0%	71.4%	66.7%	56.7%	76.0%	15	25	20	17	19
47	Α	64.0%	96	50.0%	68.6%	60.0%	70.0%	72.0%	15	24	18	21	18
95	Α	64.0%	96	56.7%	62.9%	70.0%	70.0%	60.0%	17	22	21	21	15
41	Α	63.3%	95	46.7%	71.4%	56.7%	66.7%	76.0%	14	25	17	20	19
8	В	62.7%	94	53.3%	68.6%	63.3%	60.0%	68.0%	16	24	19	18	17
27	Α	61.3%	92	43.3%	77.1%	53.3%	73.3%	56.0%	13	27	16	22	14
38	В	61.3%	92	60.0%	71.4%	76.7%	43.3%	52.0%	18	25	23	13	13
33	Α	60.7%	91	56.7%	68.6%	66.7%	53.3%	56.0%	17	24	20	16	14
62	В	60.7%	91	53.3%	74.3%	66.7%	46.7%	60.0%	16	26	20	14	15
71	Α	58.7%	88	56.7%	51.4%	60.0%	63.3%	64.0%	17	18	18	19	16
77	Α	58.7%	88	43.3%	65.7%	66.7%	50.0%	68.0%	13	23	20	15	17
85	Α	58.7%	88	56.7%	71.4%	56.7%	50.0%	56.0%	17	25	17	15	14
19	Α	58.0%	87	60.0%	54.3%	60.0%	53.3%	64.0%	18	19	18	16	16
44	В	56.7%	85	56.7%	60.0%	63.3%	50.0%	52.0%	17	21	19	15	13
24	В	56.0%	84	50.0%	62.9%	56.7%	60.0%	48.0%	15	22	17	18	12
98	В	52.7%	79	50.0%	48.6%	63.3%	46.7%	56.0%	15	17	19	14	14
32	В	52.0%	78	40.0%	57.1%	53.3%	46.7%	64.0%	12	20	16	14	16



Section B: Question Analysis Sorted by Exam Form and Question Number

Form	Question Number	Question Percentage
Α	1	16.0%
Α	2	76.0%
Α	3	42.0%
Α	4	94.0%
Α	5	84.0%
Α	6	70.0%
Α	7	78.0%
Α	8	88.0%
Α	9	100.0%
Α	10	50.0%
Α	11	30.0%
Α	12	66.0%
Α	13	76.0%
Α	14	66.0%
Α	15	66.0%
Α	16	46.0%
Α	17	82.0%
Α	18	52.0%
Α	19	28.0%
Α	20	88.0%
Α	21	74.0%
Α	22	98.0%
Α	23	32.0%
Α	24	96.0%

Form	Question Number	Question Percentage
Α	25	36.0%
Α	26	78.0%
Α	27	76.0%
Α	28	56.0%
Α	29	80.0%
A	30	28.0%
Α	31	94.0%
Α	32	94.0%
Α	33	54.0%
Α	34	54.0%
Α	35	52.0%
Α	36	42.0%
A	37	86.0%
Α	38	98.0%
Α	39	100.0%
Α	40	90.0%
Α	41	90.0%
Α	42	52.0%
Α	43	78.0%
A	44	38.0%
Α	45	94.0%
Α	46	90.0%
Α	47	84.0%
Α	48	72.0%
Α	49	84.0%
A	50	68.0%
Α	51	94.0%
Α	52	76.0%
Α	53	80.0%
Α	54	82.0%
Α	55	34.0%
A	56	54.0%
Α	57	94.0%
Α	58	82.0%
Α	59	96.0%
A	60	98.0%
Α	61	98.0%
Α	62	86.0%
A	63	34.0%
A	64	98.0%
Α	65	96.0%
Α	66	92.0%
Α	67	96.0%
Α	68	88.0%
Α	69	38.0%
Α	70	86.0%
A	71	98.0%
Α	72	92.0%
Α	73	68.0%
Α	74	68.0%
Α	75	68.0%
Α	76	86.0%
Α	77	64.0%
Α	78	60.0%
A	79	96.0%
A	80	72.0%
Α	81	98.0%
Α	82	30.0%
Α	83	90.0%
Α	84	52.0%
A	85	94.0%
A	86	90.0%
A	87	90.0%
Α	88	80.0%
Α	89	96.0%
Α	90	12.0%
Α	91	56.0%
A	92	96.0%
A	93	84.0%
A	94	16.0%
Α	95	98.0%
Α	96	90.0%
Α	97	78.0%
Α	98	36.0%
Α	99	8.0%
A	100	54.0%
A	101	100.0%
A	102	100.0%
Α	103	96.0%
Α	104	58.0%

Form	Question Number	Question Percentage
A	105	60.0%
A	106	40.0%
A	107	86.0%
A	108	96.0%
A	109	88.0%
A	110	52.0%
A	111	60.0%
A	113	76.0%
A	114	52.0%
A	115	56.0% 88.0%
A	116	40.0%
A	117	
A	117	54.0%
A	119	94.0%
A	120	68.0% 24.0%
A	121	70.0%
A	122	96.0%
A	123	66.0%
A	124	96.0%
A	125	
A	125	14.0% 18.0%
A	126	20.0%
A	127	20.0% 58.0%
A	128	100.0%
A	130	98.0%
A	130	94.0%
A	131	94.0%
A	133	92.0%
A	133	68.0%
A	135	98.0%
A	136	84.0%
A	137	88.0%
A	138	60.0%
A	139	8.0%
A	140	66.0%
A	141	74.0%
A	142	94.0%
Α	143	92.0%
Α	144	76.0%
Α	145	96.0%
Α	146	78.0%
Α	147	100.0%
Α	148	6.0%
Α	149	76.0%
Α	150	88.0%
В	1	6.1%
В	2	36.7%
В	3	83.7%
В	4	100.0%
В	5	51.0%
В	6	73.5%
В	7	36.7%
В	8	67.3%
В	9	63.3%
В	10	61.2%
В	11	91.8%
В	12	20.4%
В	13	89.8%
В	14	100.0%
В	15	98.0%
В	16	71.4%
В	17	83.7%
В	18	93.9%
В	19	75.5%
В	20	100.0%
В	21	77.6%
В	22	85.7%
В	23	71.4%
В	24	75.5%
В	25	93.9%
В	26	100.0%
В	27	59.2%
В	28	59.2%
В	29	75.5%
В	30	57.1%
В	31	95.9%
В	32	93.9%
В	33	93.9%
В		98.0%

_		0
Form	Question Number	Question Percentage
В	35	63.3%
В	36	91.8%
В	37	87.8%
В	38	38.8%
В	39	69.4%
В	40	95.9%
В	41	98.0%
В	42	93.9%
В	43	26.5%
В	44	61.2%
В	45	98.0%
В	46	87.8%
В	47	55.1%
В	48	89.8%
В	49	69.4%
В	50	16.3%
В	51	67.3%
В	52	14.3%
В	53	63.3%
В	54	75.5%
В	55	65.3%
В	56	91.8%
В	57	32.7%
В	58	100.0%
В	59	79.6%
В	60	55.1%
	60	95.9%
В		
В	62	61.2%
В	63	73.5%
В	64	83.7%
В	65	95.9%
В	66	93.9%
В	67	95.9%
В	68	81.6%
В	69	24.5%
В	70	14.3%
В	71	89.8%
В	72	91.8%
В	73	59.2%
В	74	67.3%
В	75	91.8%
В	76	59.2%
В	77	24.5%
В	78	63.3%
В	79	81.6%
В	80	75.5%
В	81	63.3%
В	82	30.6%
В	83	4.1%
В	84	55.1%
В	85	14.3%
В	86	32.7%
В	87	40.8%
В	88	91.8%
В	89	77.6%
В	90	14.3%
В	91	73.5%
В	92	95.9%
В	93	10.2%
В	94	91.8%
В	95	30.6%
В	96	98.0%
В	97	53.1%
В	98	100.0%
В	99	55.1%
В	100	91.8%
В	101	75.5%
В	102	75.5%
В	103	91.8%
В	104	81.6%
В	105	83.7%
В	106	79.6%
В	107	59.2%
В	108	79.6%
В	109	91.8%
В	110	83.7%
В	111	89.8%
В	112	100.0%
В	113	87.8%
В	114	61.2%

Form	Question Number	Question Percentage
В	115	14.3%
В	116	91.8%
В	117	63.3%
В	118	91.8%
В	119	26.5%
В	120	51.0%
В	121	91.8%
В	122	91.8%
В	123	100.0%
В	124	81.6%
В	125	8.2%
В	126	89.8%
В	127	65.3%
В	128	34.7%
В	129	95.9%
В	130	75.5%
В	131	40.8%
В	132	91.8%
В	133	59.2%
В	134	73.5%
В	135	93.9%
В	136	89.8%
В	137	16.3%
В	138	79.6%
В	139	98.0%
В	140	4.1%
В	141	91.8%
В	142	95.9%
В	143	42.9%
В	144	93.9%
В	145	53.1%
В	146	28.6%
В	147	98.0%
В	148	85.7%
В	149	91.8%
В	150	100.0%

Section B: Question Analysis Sorted by Question Percentage

Question Percentage	Form	Question Number
100.0%	Α	9
100.0%	Α	39
100.0%	Α	101
100.0%	Α	102
100.0%	Α	129
100.0%	Α	147
100.0%	В	4
100.0%	В	14
100.0%	В	20
100.0%	В	26
100.0%	В	58
100.0%	В	98
100.0%	В	112
100.0%	В	123
100.0%	В	150
98.0%	Α	22
98.0%	Α	38
98.0%	Α	60
98.0%	Α	61
98.0%	Α	64
98.0%	Α	71
98.0%	Α	81
98.0%	Α	95
98.0%	Α	130
98.0%	Α	135
98.0%	В	15
98.0%	В	34
98.0%	В	41
98.0%	В	45
98.0%	В	96
98.0%	В	139
98.0%	В	147
96.0%	Α	24
96.0%	Α	59
96.0%	Α	65
96.0%	Α	67
96.0%	Α	79
96.0%	Α	89
96.0%	Α	92

		I
Question Percentage 96.0%	Form	Question Number
96.0%	A	103
96.0%	A	122
96.0%	A	124
96.0%	A	145
95.9%	В	31
95.9%	В	40
95.9%	В	61
95.9%	В	65
95.9%	В	67
95.9%	В	92
95.9%	В	129
95.9%	В	142
94.0%	Α	4
94.0%	Α	31
94.0%	A	32
94.0%	A	45
94.0%	A	51
94.0%	A	57 85
94.0%	A	118
94.0%	A	131
94.0%	A	142
93.9%	В	18
93.9%	В	25
93.9%	В	32
93.9%	В	33
93.9%	В	42
93.9%	В	66
93.9%	В	135
93.9%	В	144
92.0%	Α	66
92.0%	A	72
92.0%	Α	132
92.0%	Α	143
91.8%	В	11
91.8%	В	36
91.8%	В	56
91.8%	В	72
91.8%	В	75
91.8% 91.8%	В	94
91.8%	В	100
91.8%	В	103
91.8%	В	109
91.8%	В	116
91.8%	В	118
91.8%	В	121
91.8%	В	122
91.8%	В	132
91.8%	В	141
91.8%	В	149
90.0%	A	40
90.0%	Α	41
90.0%	Α	46
90.0%	Α	83
90.0%	A	86
90.0%	A	87
90.0%	A	96
90.0%	A	133
89.8%	В	13
89.8%	В	48 71
89.8% 89.8%	В	111
89.8%	В	126
89.8%	В	136
88.0%	A	8
88.0%	A	20
88.0%	Α	68
88.0%	Α	109
88.0%	Α	115
88.0%	Α	137
88.0%	Α	150
87.8%	В	37
87.8%	В	46
87.8%	В	113
86.0%	Α	37
86.0%	Α	62
86.0%	Α	70
86.0%	Α	76

Question Percentage	Form	Question Number
86.0%	Α	107
85.7%	В	22
85.7%	В	148
84.0%	Α	5
84.0%	Α	47
84.0%	Α	49
84.0%	Α	93
84.0%	Α	136
83.7%	В	3
83.7%	В	17
83.7%	В	64
83.7%	В	105
83.7%	В	110
82.0%	Α	17
82.0%	Α	54
82.0%	Α	58
81.6%	В	68
81.6%	В	79
81.6%	В	104
81.6%	В	124
80.0%	A	29
80.0%	A	53
80.0%	Α	88
79.6%	В	59
79.6%	В	106
79.6%	В	108
79.6%	В	138
78.0%	Α	7
78.0%	Α	26
78.0%	Α	43
78.0%	Α	97
78.0%	Α	146
77.6%	В	21
77.6%	В	89
76.0%	Α	2
76.0%	Α	13
76.0%	A	27
76.0%	A	52
76.0%	A	112
76.0%	A	144
76.0%	A	149
75.5%	В	19
75.5%	В	24
75.5%	В	29
75.5%	В	54
75.5%	В	80
75.5%	В	101
75.5%	В	102
75.5%	В	130
74.0%	Α	21
74.0%	Α	141
73.5%	В	6
73.5%	В	63
73.5%	В	91
73.5%	В	134
72.0%	Α	48
72.0%	Α	80
71.4%	В	16
71.4%	В	23
70.0%	Α	6
70.0%	Α	121
69.4%	В	39
69.4%	В	49
68.0%	A	50
68.0%	A	73
68.0%	A	74
68.0%	A	75
68.0%	A	119
68.0%	A	134
67.3%	В	8
67.3%	В	51
67.3%	В	74
66.0%	A	12
66.0%	A	14
66.0%	Α	15
66.0%	Α	123
66.0%	Α	140
65.3%	В	55
65.3%	В	127
64.0%	Α	77

Question Percentage	Form	Question Number
63.3% 63.3%	В	35
63.3%	В	53
63.3%	В	78
63.3%	В	81
63.3%	В	117
61.2%	В	10
61.2%	В	44
61.2%	В	62
61.2%	В	114
60.0%	Α	78
60.0%	Α	105
60.0%	Α	111
60.0%	Α	138
59.2%	В	27
59.2%	В	28
59.2%	В	73
59.2% 59.2%	В	76 107
59.2%	В	133
58.0%	A	104
58.0%	A	128
57.1%	В	30
56.0%	Α	28
56.0%	A	91
56.0%	Α	114
55.1%	В	47
55.1%	В	60
55.1%	В	84
55.1%	В	99
54.0%	Α	33
54.0%	Α	34
54.0%	Α	56
54.0%	Α .	100
54.0%	A	117
53.1%	В	97
53.1% 52.0%	B A	145
52.0%	A	35
52.0%	A	42
52.0%	A	84
52.0%	Α	110
52.0%	Α	113
51.0%	В	5
51.0%	В	120
50.0%	Α	10
46.0%	Α	16
42.9%	В	143
42.0%	Α	3
42.0%	Α	36
40.8%	В	87
40.8%	В	131
40.0%	A	106
40.0%	A	116
38.0%	B A	44
38.0%	A	69
36.7%	В	2
36.7%	В	7
36.0%	Α	25
36.0%	Α	98
34.7%	В	128
34.0%	Α	55
34.0%	Α	63
32.7%	В	57
32.7%	В	86
32.0%	Α	23
30.6%	В	82
30.6%	В	95
30.0%	A	11
30.0% 28.6%	A	82 146
28.6%	B A	146
28.0%	A	30
26.5%	В	43
26.5%	В	119
24.5%	В	69
24.5%	В	77
24.0%	Α	120
20.4%	В	12

Question Percentage	Form	Question Number
20.0%	Α	127
18.0%	Α	126
16.3%	В	50
16.3%	В	137
16.0%	Α	1
16.0%	Α	94
14.3%	В	52
14.3%	В	70
14.3%	В	85
14.3%	В	90
14.3%	В	115
14.0%	Α	125
12.0%	Α	90
10.2%	В	93
8.2%	В	125
8.0%	Α	99
8.0%	Α	139
6.1%	В	1
6.0%	Α	148
4.1%	В	83
4.1%	В	140