## Program Summary - Project.sas

## **Execution Environment**

Author: sasdemo

File: /folders/myfolders/Project/Project.sas SAS Platform: Linux LIN X64 2.6.32-696.20.1.el6.x86 64

SAS Host: LOCALHOST SAS Version: 9.04.01M5P09132017

SAS Locale: en\_US

Submission Time: 12/3/2018, 8:07:14 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/70.0.3538.110 Safari/537.36

Application Server: LOCALHOST.LOCALDOMAIN

```
Code: Project.sas
```

```
/*Final Project
*Author Jonathan Wilson
*Date 11/7/2018
options leftmargin=.5in rightmargin=1in orientation=landscape nocenter;
ods pdf file="/folders/myfolders/Project/FinalProjectSummary.pdf";
/*Read in data sets*/
%let path=/folders/myfolders/Project;
libname project "&path";
/*Creating the domains data set*/
data domainsA;
    infile "&path/Domains FormA.csv" dlm=',' firstobs=2 dsd;
    input ItemId Domain :$255. DomainNum QuestionNum;/*Domain :$255. use this to capture a long string of chars*/
run;
data domainsB;
    infile "&path/Domains FormB.csv" dlm=',' firstobs=2 dsd;
    input ItemId Domain :$255. DomainNum QuestionNum;/*Domain :$255. use this to capture a long string of chars*/
/*Creating the answers data sets*/
data FormAanswers;
    infile "&path/FormA.csv" dlm=',' obs=1;
    input qID $ (Q1-Q150) ($);
data FormBanswers;
    infile "&path/FormB.csv" dlm=',' obs=1;
    input qID $ (Q1-Q150) ($);
run:
/*Creating the tests data sets*/
data FormAtests:
    infile "&path/FormA.csv" dlm=',' firstobs=2 dsd;
    input sID (Q1-Q150) ($);/*Use columns(array) to count the number of columns in Excel. (Q1-Q150) ($) is a char range*/
run:
data FormBtests;
    infile "&path/FormB.csv" dlm=',' firstobs=2 dsd;
    input sID (Q1-Q150) ($);/*Use columns(array) to count the number of columns in Excel. (Q1-Q150) ($) is a char range*/
run;
/*Step 1*/
/*Calculate the answers for each test: Form A*/
data resultsA;
    set FormAanswers FormAtests;
    array tests(150) $1 Q1-Q150;
    array key(150) $1 k1-k150;
    array match(150) m1-m150;
    retain k1-k150;
```

```
/* populate key array */
    if qID = "AAAAKEY" then do;
        do i = 1 to 150;
           key(i) = tests(i);
        end;
    end;
    else do;
        do QuestionNum= 1 to 150;
            if key(QuestionNum) ne tests(QuestionNum) then match(QuestionNum) = 0;
            else match(OuestionNum) = 1;
            matches = match(QuestionNum);
            output;
        end;
    end;
    keep matches QuestionNum sID;
/*Calculate the answers for each test: Form B*/
data resultsB;
    set FormBanswers FormBtests;
    array tests(150) $1 Q1-Q150;
    array key(150) $1 k1-k150;
    array match(150) m1-m150;
    retain k1-k150;
   populate key array */
    if qID = "BBBBKEY" then do;
        do i = 1 to 150;
            key(i) = tests(i);
        end;
    end;
    else do;
        do QuestionNum= 1 to 150;
            if key(QuestionNum) ne tests(QuestionNum) then match(QuestionNum) = 0;
            else match(QuestionNum) = 1;
            matches = match(QuestionNum);
            output;
        end;
    end;
    keep matches QuestionNum sID;
run:
/*Merge domains and results STEP 2*/
/*Set A*/
/*Sort by QuestionNum */
proc sort data=resultsA out=resultsA;
   by QuestionNum;
run:
proc sort data=domainsA out=domainsA;
   by QuestionNum;
run;
data domainsMergeResultsA;
   merge resultsA domainsA;
    by QuestionNum;
run;
/*Set B*/
/*Sort by QuestionNum */
proc sort data=resultsB out=resultsB;
   by QuestionNum;
proc sort data=domainsB out=domainsB;
   by QuestionNum;
data domainsMergeResultsB;
   merge resultsB domainsB;
    by QuestionNum;
run;
```

run;

```
/*Combine merged sets STEP 3*/
data combinedMerge;
   set domainsMergeResultsA domainsMergeResultsB;
/* by sID; */
    remain = mod(sID, 2);
        if remain=0 then
            Form='B';
        else Form='A';
    drop remain;
run;
/*STEP 4*/
/*Aggregations on students*/
proc means data=combinedMerge sum mean nonobs maxdec=0 noprint;
/* by sID; */
   class DomainNum sID;
    var matches;
    ID Form;
    output out=studentResults (drop=_TYPE_ _FREQ_)
        mean=percent sum=score;
run;
/*STEP 5 sort by Students*/
proc sort data=studentResults out=sortedStudentResults;
   by sID;
    where sID ne .;/*take out sIDs with no values*/
run;
/*STEP 6 Transformation and Section A*/
data transformStudents;
    set sortedStudentResults;
    retain os op ds1 ds2 ds3 ds4 ds5 dp1 dp2 dp3 dp4 dp5;
    array scores_array(*) os op ds1 dp1 ds2 dp2 ds3 dp3 ds4 dp4 ds5 dp5;
    by sID;
    if first.sID then i=0;
    i+1;
    scores_array(i) = score;
    i+1;
    scores_array(i) = percent;
    if last.sID then output;
    drop percent score i domainNum;
    label
           os = "Overall Score"
            op = "Overall Percentage"
            ds1 = "Domain 1 Score"
            ds2 = "Domain 2 Score"
            ds3 = "Domain 3 Score"
            ds4 = "Domain 4 Score"
            ds5 = "Domain 5 Score"
            dp1 = "Domain 1 Percentage"
            dp2 = "Domain 2 Percentage"
            dp3 = "Domain 3 Percentage"
            dp4 = "Domain 4 Percentage"
            dp5 = "Domain 5 Percentage"
            sID = "Student";
run:
footnote1 'Final Project STAT 124';
/* Student Scores Sorted by Student ID */
proc print data=transformStudents label noobs;
    format op percent7.1
            dp1 percent7.1
            dp2 percent7.1
            dp3 percent7.1
            dp4 percent7.1
            dp5 percent7.1;
    var sID Form os op ds1 ds2 ds3 ds4 ds5 dp1 dp2 dp3 dp4 dp5;
    title1 'Section A - Student Scores Sorted by Student ID';
```

```
proc sort data=transformStudents out=sortedHighestToLowestScores;
   by descending os;
/* Student Scores Sorted Highest to Lowest Overall Score */
proc print data=sortedHighestToLowestScores label noobs;
    format op percent7.1
            dp1 percent7.1
            dp2 percent7.1
            dp3 percent7.1
            dp4 percent7.1
            dp5 percent7.1;
    var sID Form op os dp1 dp2 dp3 dp4 dp5 ds1 ds2 ds3 ds4 ds5;
    title1 'Section A - Student Scores Sorted Highest to Lowest Overall Score';
run;
data boxplot;
    set studentResults;
    keep DomainNum percent;
    where DomainNum ne .;
run:
/* Box Plot */
PROC SGPLOT DATA = boxplot;
            percent="Student Percentages"
    label
            DomainNum="Domain";
    format percent percent7.1;
   VBOX percent
   / category = DomainNum;
   title 'Section A: Distribution of Student Percents by Domain Number';
RUN;
/*STEP 7*/
proc means data=combinedMerge mean nonobs nway maxdec=0 noprint;
    class QuestionNum Form;
    var matches;
    output out=questionAggs (drop=_TYPE_ _FREQ_)
        mean=percent;
run;
proc sort data=questionAggs out=questionAggsSorted;
    by Form QuestionNum;
run;
proc print data=questionAggsSorted label noobs;
    format percent percent7.1;
    label percent="Question Percentage" QuestionNum="Question Number";
    var Form QuestionNum percent;
    title1 'Section B: Question Analysis Sorted by Exam Form and Question Number';
proc sort data=questionAggs out=questionAggsSortedByQuestionPer;
    by descending percent;
run:
proc print data=questionAggsSortedByQuestionPer label noobs;
    format percent percent7.1;
    label percent="Question Percentage" QuestionNum="Question Number";
    var percent Form QuestionNum;
    title1 'Section B: Question Analysis Sorted by Question Percentage';
run;
ods pdf close;
Log: Project.sas
Notes (97)
          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
73
 74
          /*Final Project
```

```
12/3/2018
  75
   76
  77
  78
  79
  81
   82
  83
   84
  85
  86
   87
   88
  89
   90
  91
  92
  93
  94
   95
  96
  97
   98
  99
   100
```

```
*Author Jonathan Wilson
           *Date 11/7/2018
           options leftmargin=.5in rightmargin=1in orientation=landscape nocenter;
           ods pdf file="/folders/myfolders/Project/FinalProjectSummary.pdf";
NOTE: Writing ODS PDF output to DISK destination "/folders/myfolders/Project/FinalProjectSummary.pdf", printer "PDF".
           /*Read in data sets*/
           %let path=/folders/myfolders/Project;
           libname project "&path";
NOTE: Libref PROJECT was successfully assigned as follows:
      Engine:
                    V9
      Physical Name: /folders/myfolders/Project
           /*Creating the domains data set*/
           data domainsA;
           infile "&path/Domains FormA.csv" dlm=',' firstobs=2 dsd;
           input ItemId Domain :$255. DomainNum QuestionNum;/*Domain :$255. use this to capture a long string of chars*/
NOTE: The infile "/folders/myfolders/Project/Domains FormA.csv" is:
      Filename=/folders/myfolders/Project/Domains FormA.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---
      Last Modified=25Nov2018:15:49:08,
      File Size (bytes)=7047
NOTE: 150 records were read from the infile "/folders/myfolders/Project/Domains FormA.csv".
      The minimum record length was 40.
      The maximum record length was 62.
NOTE: The data set WORK.DOMAINSA has 150 observations and 4 variables.
NOTE: DATA statement used (Total process time):
      real time
                         0.02 seconds
      cpu time
                          0.00 seconds
           infile "&path/Domains FormB.csv" dlm=',' firstobs=2 dsd;
           input ItemId Domain :$255. DomainNum QuestionNum;/*Domain :$255. use this to capture a long string of chars*/
NOTE: The infile "/folders/myfolders/Project/Domains FormB.csv" is:
      Filename=/folders/myfolders/Project/Domains FormB.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---
      Last Modified=25Nov2018:15:49:08,
      File Size (bytes)=7047
NOTE: 150 records were read from the infile "/folders/myfolders/Project/Domains FormB.csv".
      The minimum record length was 40.
      The maximum record length was 62.
NOTE: The data set WORK.DOMAINSB has 150 observations and 4 variables.
NOTE: DATA statement used (Total process time):
      real time
                         0.02 seconds
      cpu time
                          0.02 seconds
           /*Creating the answers data sets*/
           data FormAanswers;
           infile "&path/FormA.csv" dlm=',' obs=1;
           input qID $ (Q1-Q150) ($);
           run;
NOTE: The infile "/folders/myfolders/Project/FormA.csv" is:
      Filename=/folders/myfolders/Project/FormA.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---
      Last Modified=25Nov2018:15:08:52,
      File Size (bytes)=15503
NOTE: 1 record was read from the infile "/folders/myfolders/Project/FormA.csv".
      The minimum record length was 307.
      The maximum record length was 307.
NOTE: The data set WORK.FORMAANSWERS has 1 observations and 151 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.01 seconds
      cpu time
                          0.01 seconds
102
103
           data FormBanswers;
           infile "&path/FormB.csv" dlm=',' obs=1;
104
```

```
12/3/2018
   105
   106
   107
   108
  109
  110
   111
   112
```

```
input qID $ (Q1-Q150) ($);
NOTE: The infile "/folders/myfolders/Project/FormB.csv" is:
      Filename=/folders/myfolders/Project/FormB.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---
      Last Modified=25Nov2018:15:08:52,
      File Size (bytes)=15201
NOTE: 1 record was read from the infile "/folders/myfolders/Project/FormB.csv".
      The minimum record length was 307.
      The maximum record length was 307.
NOTE: The data set WORK.FORMBANSWERS has 1 observations and 151 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.01 seconds
      cpu time
                          0.01 seconds
           /*Creating the tests data sets*/
           data FormAtests:
           infile "&path/FormA.csv" dlm=',' firstobs=2 dsd;
           input sID (Q1-Q150) ($);/*Use columns(array) to count the number of columns in Excel. (Q1-Q150) ($) is a char range*/
NOTE: The infile "/folders/myfolders/Project/FormA.csv" is:
      Filename=/folders/myfolders/Project/FormA.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx---
      Last Modified=25Nov2018:15:08:52,
      File Size (bytes)=15503
NOTE: 50 records were read from the infile "/folders/myfolders/Project/FormA.csv".
      The minimum record length was 301.
      The maximum record length was 302.
NOTE: The data set WORK.FORMATESTS has 50 observations and 151 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.01 seconds
      cpu time
                          0.02 seconds
113
114
           data FormBtests:
           infile "&path/FormB.csv" dlm=',' firstobs=2 dsd;
115
116
           input sID (Q1-Q150) ($);/*Use columns(array) to count the number of columns in Excel. (Q1-Q150) ($) is a char range*/
117
NOTE: The infile "/folders/myfolders/Project/FormB.csv" is:
      Filename=/folders/myfolders/Project/FormB.csv,
      Owner Name=root, Group Name=vboxsf,
      Access Permission=-rwxrwx--
      Last Modified=25Nov2018:15:08:52,
      File Size (bytes)=15201
NOTE: 49 records were read from the infile "/folders/myfolders/Project/FormB.csv".
      The minimum record length was 301.
      The maximum record length was 303.
NOTE: The data set WORK.FORMBTESTS has 49 observations and 151 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.01 seconds
      cpu time
                          0.01 seconds
118
119
           /*Step 1*/
120
           /*Calculate the answers for each test: Form A*/
121
           data resultsA;
122
           set FormAanswers FormAtests;
123
124
           array tests(150) $1 Q1-Q150;
125
           array key(150) $1 k1-k150;
126
           array match(150) m1-m150;
127
128
           retain k1-k150;
129
           /* populate key array */
130
           if qID = "AAAAKEY" then do;
131
132
           do i = 1 to 150;
133
           key(i) = tests(i);
134
           end:
135
           end;
136
137
           else do;
           do QuestionNum= 1 to 150;
138
```

```
NOTE: There were 7500 observations read from the data set WORK.RESULTSA.
NOTE: There were 150 observations read from the data set WORK.DOMAINSA.
NOTE: The data set WORK.DOMAINSMERGERESULTSA has 7500 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.03 seconds
      cpu time
                          0.02 seconds
190
191
           /*Set B*/
           /*Sort by QuestionNum */
192
193
           proc sort data=resultsB out=resultsB;
194
           by QuestionNum;
195
           run:
NOTE: There were 7350 observations read from the data set WORK.RESULTSB.
NOTE: The data set WORK.RESULTSB has 7350 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.02 seconds
      cpu time
                          0.01 seconds
196
197
           proc sort data=domainsB out=domainsB;
           by QuestionNum;
198
199
           run;
NOTE: There were 150 observations read from the data set WORK.DOMAINSB.
NOTE: The data set WORK.DOMAINSB has 150 observations and 4 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.00 seconds
      cpu time
                          0.01 seconds
200
           data domainsMergeResultsB;
201
           merge resultsB domainsB;
202
           by QuestionNum;
203
           run;
NOTE: There were 7350 observations read from the data set WORK.RESULTSB.
NOTE: There were 150 observations read from the data set WORK.DOMAINSB.
NOTE: The data set WORK.DOMAINSMERGERESULTSB has 7350 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.02 seconds
      cpu time
                          0.02 seconds
204
205
           /*Combine merged sets STEP 3*/
           data combinedMerge;
206
           set domainsMergeResultsA domainsMergeResultsB;
207
208
           /* by sID; */
           remain = mod(sID, 2);
209
                   if remain=0 then
210
                   Form='B';
211
212
                   else Form='A';
213
               drop remain;
214
           run:
NOTE: There were 7500 observations read from the data set WORK.DOMAINSMERGERESULTSA.
NOTE: There were 7350 observations read from the data set WORK.DOMAINSMERGERESULTSB.
NOTE: The data set WORK.COMBINEDMERGE has 14850 observations and 7 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.04 seconds
                          0.03 seconds
      cpu time
215
           /*STEP 4*/
216
217
           /*Aggregations on students*/
218
219
           proc means data=combinedMerge sum mean nonobs maxdec=0 noprint;
           /* by sID; */
220
221
           class DomainNum sID;
           var matches;
222
              ID Form:
223
           output out=studentResults (drop=_TYPE_ _FREQ_)
224
225
           mean=percent sum=score;
226
           run;
NOTE: There were 14850 observations read from the data set WORK.COMBINEDMERGE.
NOTE: The data set WORK.STUDENTRESULTS has 600 observations and 5 variables.
NOTE: PROCEDURE MEANS used (Total process time):
      real time
                          0.03 seconds
```

284

run;

```
cpu time
                          0.04 seconds
227
228
           /*STEP 5 sort by Students*/
229
           proc sort data=studentResults out=sortedStudentResults;
230
           by sID;
           where sID ne .;/*take out sIDs with no values*/
231
232
NOTE: There were 594 observations read from the data set WORK.STUDENTRESULTS.
      WHERE sID not = .;
NOTE: The data set WORK.SORTEDSTUDENTRESULTS has 594 observations and 5 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.00 seconds
      cpu time
                          0.01 seconds
233
234
           /*STEP 6 Transformation and Section A*/
           data transformStudents;
235
           set sortedStudentResults;
236
237
238
           retain os op ds1 ds2 ds3 ds4 ds5 dp1 dp2 dp3 dp4 dp5;
239
           array scores_array(*) os op ds1 dp1 ds2 dp2 ds3 dp3 ds4 dp4 ds5 dp5;
240
           by sID;
241
242
           if first.sID then i=0;
243
244
           i+1:
245
           scores_array(i) = score;
246
           i+1;
247
           scores_array(i) = percent;
248
249
           if last.sID then output;
250
251
           drop percent score i domainNum:
           label os = "Overall Score"
252
253
           op = "Overall Percentage"
254
           ds1 = "Domain 1 Score"
           ds2 = "Domain 2 Score"
255
           ds3 = "Domain 3 Score"
256
           ds4 = "Domain 4 Score"
257
           ds5 = "Domain 5 Score"
258
           dp1 = "Domain 1 Percentage"
259
260
           dp2 = "Domain 2 Percentage"
           dp3 = "Domain 3 Percentage"
261
           dp4 = "Domain 4 Percentage"
262
           dp5 = "Domain 5 Percentage'
263
264
           sID = "Student";
265
           run;
NOTE: There were 594 observations read from the data set WORK.SORTEDSTUDENTRESULTS.
NOTE: The data set WORK.TRANSFORMSTUDENTS has 99 observations and 14 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.01 seconds
      cpu time
                          0.01 seconds
266
267
           footnote1 'Final Project STAT 124';
268
269
           /* Student Scores Sorted by Student ID */
270
           proc print data=transformStudents label noobs;
271
           format op percent7.1
272
           dp1 percent7.1
273
           dp2 percent7.1
274
           dp3 percent7.1
275
           dp4 percent7.1
276
           dp5 percent7.1;
277
           var sID Form os op ds1 ds2 ds3 ds4 ds5 dp1 dp2 dp3 dp4 dp5;
           title1 'Section A - Student Scores Sorted by Student ID';
278
279
280
NOTE: There were 99 observations read from the data set WORK.TRANSFORMSTUDENTS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time
                          0.84 seconds
      cpu time
                          0.83 seconds
281
282
           proc sort data=transformStudents out=sortedHighestToLowestScores;
283
           by descending os;
```

```
NOTE: There were 99 observations read from the data set WORK.TRANSFORMSTUDENTS.
NOTE: The data set WORK.SORTEDHIGHESTTOLOWESTSCORES has 99 observations and 14 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.00 seconds
      cpu time
                          0.01 seconds
285
286
           /* Student Scores Sorted Highest to Lowest Overall Score */
287
           proc print data=sortedHighestToLowestScores label noobs;
288
           format op percent7.1
289
           dp1 percent7.1
290
           dp2 percent7.1
           dp3 percent7.1
291
292
           dp4 percent7.1
293
           dp5 percent7.1;
           var sID Form op os dp1 dp2 dp3 dp4 dp5 ds1 ds2 ds3 ds4 ds5;
294
295
           title1 'Section A - Student Scores Sorted Highest to Lowest Overall Score';
296
NOTE: There were 99 observations read from the data set WORK.SORTEDHIGHESTTOLOWESTSCORES.
NOTE: PROCEDURE PRINT used (Total process time):
      real time
                          0.93 seconds
                          0.94 seconds
      cpu time
298
299
           data boxplot;
300
           set studentResults;
301
           keep DomainNum percent;
302
           where DomainNum ne .:
303
           run;
NOTE: There were 500 observations read from the data set WORK.STUDENTRESULTS.
      WHERE DomainNum not = .:
NOTE: The data set WORK.BOXPLOT has 500 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time
                          0.00 seconds
      cpu time
                          0.01 seconds
304
305
           /* Box Plot */
306
           PROC SGPLOT DATA = boxplot;
307
           label percent="Student Percentages"
308
           DomainNum="Domain":
309
           format percent percent7.1;
310
              VBOX percent
              / category = DomainNum;
311
312
313
              title 'Section A: Distribution of Student Percents by Domain Number';
           RUN;
NOTE: Since no format is assigned, the numeric category variable will use the default of BEST6.
NOTE: PROCEDURE SGPLOT used (Total process time):
      real time
                          0.71 seconds
                          0.42 seconds
      cpu time
NOTE: There were 500 observations read from the data set WORK.BOXPLOT.
315
316
317
           /*STEP 7*/
318
           proc means data=combinedMerge mean nonobs nway maxdec=0 noprint;
319
           class QuestionNum Form;
320
           var matches;
           output out=questionAggs (drop=_TYPE_ _FREQ_)
321
322
           mean=percent;
323
           run;
NOTE: There were 14850 observations read from the data set WORK.COMBINEDMERGE.
NOTE: The data set WORK.QUESTIONAGGS has 300 observations and 3 variables.
NOTE: PROCEDURE MEANS used (Total process time):
      real time
                          0.03 seconds
      cpu time
                          0.03 seconds
324
325
           proc sort data=questionAggs out=questionAggsSorted;
326
           by Form QuestionNum;
327
           run;
NOTE: There were 300 observations read from the data set WORK.OUESTIONAGGS.
```

```
NOTE: The data set WORK.QUESTIONAGGSSORTED has 300 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.00 seconds
                          0.01 seconds
      cpu time
328
           proc print data=questionAggsSorted label noobs;
329
330
           format percent percent7.1;
331
           label percent="Question Percentage" QuestionNum="Question Number";
332
           var Form QuestionNum percent;
           title1 'Section B: Question Analysis Sorted by Exam Form and Question Number';
333
334
{\tt NOTE:} \  \, {\tt There were 300 \ observations \ read \ from \ the \ data \ set \ WORK.QUESTIONAGGSSORTED.}
NOTE: At least one W.D format was too small for the number to be printed. The decimal may be shifted by the "BEST" format.
NOTE: PROCEDURE PRINT used (Total process time):
      real time
                          0.75 seconds
                          0.75 seconds
      cpu time
335
336
           proc sort data=questionAggs out=questionAggsSortedByQuestionPer;
337
           by descending percent;
338
           run;
NOTE: There were 300 observations read from the data set WORK.QUESTIONAGGS.
NOTE: The data set WORK.QUESTIONAGGSSORTEDBYQUESTIONPER has 300 observations and 3 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time
                          0.00 seconds
      cpu time
                          0.01 seconds
339
340
           proc print data=questionAggsSortedByQuestionPer label noobs;
341
           format percent percent7.1;
342
           label percent="Question Percentage" QuestionNum="Question Number";
343
           var percent Form QuestionNum;
344
           title1 'Section B: Question Analysis Sorted by Question Percentage';
345
NOTE: There were 300 observations read from the data set WORK.QUESTIONAGGSSORTEDBYQUESTIONPER.
NOTE: At least one W.D format was too small for the number to be printed. The decimal may be shifted by the "BEST" format.
NOTE: PROCEDURE PRINT used (Total process time):
      real time
                          0.66 seconds
      cpu time
                          0.65 seconds
346
           ods pdf close;
NOTE: ODS PDF printed 33 pages to /folders/myfolders/Project/FinalProjectSummary.pdf.
347
           OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
348
361
```

## Results: Project.sas

## Section A - Student Scores Sorted 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	А	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	А	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	А	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	А	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	A	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	A	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	А	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%
23	Α	115	76.7%	22	26	28	21	18	73.3%	74.3%	93.3%	70.0%	72.0%

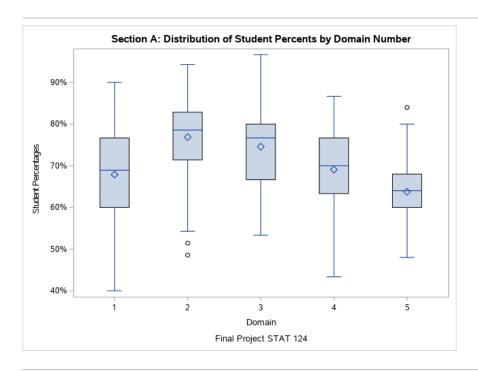
24 25 26 27 28	В	84				Score	Score	Score	Percentage	Percentage	Percentage	Percentage	Percentage
26 27		04	56.0%	15	22	17	18	12	50.0%	62.9%	56.7%	60.0%	48.0%
27	Α	114	76.0%	23	29	25	21	16	76.7%	82.9%	83.3%	70.0%	64.0%
	В	113	75.3%	22	25	23	25	18	73.3%	71.4%	76.7%	83.3%	72.0%
	В	92	61.3% 65.3%	13	27 30	16	18	14	43.3% 60.0%	77.1% 85.7%	53.3% 66.7%	73.3% 60.0%	56.0% 48.0%
29	A	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	Α	106	70.7%	18	28	23	23	14	60.0%	80.0%	76.7%	76.7%	56.0%
32	В	78	52.0%	12	20	16	14	16	40.0%	57.1%	53.3%	46.7%	64.0%
33	Α	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 36	В	115	76.7% 78.0%	24 25	26	26 25	22	17	80.0%	74.3% 88.6%	86.7% 83.3%	73.3% 73.3%	68.0% 56.0%
37	A	113	75.3%	21	27	25	23	17	70.0%	77.1%	83.3%	76.7%	68.0%
38	В	92	61.3%	18	25	23	13	13	60.0%	71.4%	76.7%	43.3%	52.0%
39	А	117	78.0%	25	26	29	21	16	83.3%	74.3%	96.7%	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	A	95	63.3%	14	25	17	20	19	46.7%	71.4%	56.7%	66.7%	76.0%
42	B A	112	74.7% 78.7%	24	29	23	22	14	73.3%	82.9% 88.6%	76.7% 76.7%	73.3% 86.7%	56.0% 64.0%
44	В	85	56.7%	17	21	19	15	13	56.7%	60.0%	63.3%	50.0%	52.0%
45	Α	100	66.7%	19	25	24	19	13	63.3%	71.4%	80.0%	63.3%	52.0%
46	В	105	70.0%	21	27	22	21	14	70.0%	77.1%	73.3%	70.0%	56.0%
47	Α	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 50	В	114 99	76.0% 66.0%	21 19	29	24	23	17	70.0% 63.3%	82.9% 71.4%	80.0% 70.0%	76.7% 66.7%	68.0% 56.0%
51	A	113	75.3%	20	30	23	22	18	66.7%	85.7%	76.7%	73.3%	72.0%
52	В	104	69.3%	21	28	21	17	17	70.0%	80.0%	70.0%	56.7%	68.0%
53	Α	98	65.3%	19	20	24	20	15	63.3%	57.1%	80.0%	66.7%	60.0%
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 57	B A	104	69.3% 68.7%	22 17	29	20	21 19	12	73.3% 56.7%	82.9% 77.1%	70.0%	70.0% 63.3%	48.0% 76.0%
58	В	99	66.0%	20	24	18	21	16	66.7%	68.6%	60.0%	70.0%	64.0%
59	Α	119	79.3%	21	29	25	25	19	70.0%	82.9%	83.3%	83.3%	76.0%
60	В	116	77.3%	22	32	22	23	17	73.3%	91.4%	73.3%	76.7%	68.0%
61	Α	106	70.7%	17	25	26	21	17	56.7%	71.4%	86.7%	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 65	A	97 122	64.7% 81.3%	19	33	25 24	17	12	63.3% 76.7%	68.6% 94.3%	83.3%	56.7% 80.0%	48.0% 72.0%
66	В	107	71.3%	22	28	22	19	16	73.3%	80.0%	73.3%	63.3%	64.0%
67	А	122	81.3%	25	29	25	24	19	83.3%	82.9%	83.3%	80.0%	76.0%
68	В	108	72.0%	21	29	22	21	15	70.0%	82.9%	73.3%	70.0%	60.0%
69	A	119	79.3%	24	29	24	24	18	80.0%	82.9%	80.0%	80.0%	72.0%
70 71	B A	103	68.7%	16 17	30 18	20	19	15 16	53.3%	85.7%	66.7%	73.3%	60.0%
72	В	110	73.3%	22	31	23	19	15	73.3%	51.4% 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	Α	119	79.3%	22	29	26	26	16	73.3%	82.9%	86.7%	86.7%	64.0%
76	В	112	74.7%	24	28	20	21	19	80.0%	80.0%	66.7%	70.0%	76.0%
77 78	В	115	58.7% 76.7%	13	23	20	15 21	17	43.3% 73.3%	65.7% 82.9%	66.7% 80.0%	50.0% 70.0%	68.0% 76.0%
79	A	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	А	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	112	74.7%	20	29	19	25	19	66.7%	82.9%	63.3%	83.3%	76.0%
84 85	B A	102 88	68.0% 58.7%	25 17	26 25	18	18 15	15 14	83.3% 56.7%	74.3% 71.4%	60.0% 56.7%	60.0% 50.0%	60.0% 56.0%
86	В	106	70.7%	21	32	21	17	15	70.0%	91.4%	70.0%	56.7%	60.0%
87	A	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	Α	106	70.7%	20	28	22	18	18	66.7%	80.0%	73.3%	60.0%	72.0%
90	В	101	67.3%	17	30	24	15	15	56.7%	85.7%	80.0%	50.0%	60.0%
91 92	A B	111	74.0% 78.0%	24	27	24	24	12	80.0% 80.0%	77.1% 80.0%	80.0% 86.7%	80.0% 73.3%	48.0% 68.0%
92	A	100	66.7%	24	28	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%
99	В	106 110	70.7% 73.3%	18	26 28	23	23	16	60.0% 80.0%	74.3% 80.0%	76.7% 66.7%	76.7% 70.0%	64.0% 68.0%

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	Α	81.3%	122	83.3%	82.9%	83.3%	80.0%	76.0%	25	29	25	24	19
81	Α	81.3%	122	70.0%	91.4%	86.7%	86.7%	68.0%	21	32	26	26	17
82	В	81.3%	122	76.7%	85.7%	76.7%	83.3%	84.0%	23	30	23	25	21
2	В	80.7%	121	86.7%	88.6%	83.3%	80.0%	60.0%	26	31	25	24	15
48	В	80.7%	121	90.0%	88.6%	80.0%	76.7%	64.0%	27	31	24	23	16
79	Α	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	Α	78.0%	117	83.3%	74.3%	96.7%	70.0%	64.0%	25	26	29	21	16
73	Α	78.0%	117	80.0%	80.0%	93.3%	70.0%	64.0%	24	28	28	21	16
92	В	78.0%	117	80.0%	80.0%	86.7%	73.3%	68.0%	24	28	26	22	17
97	Α	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	Α	75.3%	113	70.0%	77.1%	83.3%	76.7%	68.0%	21	27	25	23	17
51	Α	75.3%	113	66.7%	85.7%	76.7%	73.3%	72.0%	20	30	23	22	18
42	В	74.7%	112	80.0%	82.9%	76.7%	73.3%	56.0%	24	29	23	22	14
76	В	74.7%	112	80.0%	80.0%	66.7%	70.0%	76.0%	24	28	20	21	19
83	Α	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%	108	76.7%	91.4%	66.7%	53.3%	68.0%	23	32	20	16	17
12	В	71.3%	107	60.0%	85.7%	76.7%	63.3%	68.0%	18	30	23	19	17
13		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		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	В	69.3%	104	70.0%	80.0%	70.0%	56.7%	68.0%	21	28	21	17	17
56	В	69.3%	104	73.3%	82.9%	66.7%	70.0%	48.0%	22	29	20	21	12
87	Α	69.3%	104	73.3%	60.0%	76.7%	73.3%	64.0%	22	21	23	22	16
1	Α	68.7%	103	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	Α	66.7%	100	63.3%	71.4%	80.0%	63.3%	52.0%	19	25	24	19	13
93	Α	66.7%	100	66.7%	60.0%	63.3%	80.0%	64.0%	20	21	19	24	16
	Α	66.0%	99	63.3%	68.6%	70.0%	70.0%	56.0%	19	24	21	21	14

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
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
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	А	65.3%	98	63.3%	57.1%	80.0%	66.7%	60.0%	19	20	24	20	15
63	А	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	А	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	А	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	А	58.7%	88	43.3%	65.7%	66.7%	50.0%	68.0%	13	23	20	15	17
85	А	58.7%	88	56.7%	71.4%	56.7%	50.0%	56.0%	17	25	17	15	14
19	А	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

Final Project STAT 124



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%
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%

A       20         A       21         A       21         A       22         A       24         A       26         A       26         A       28         A       29         A       30         A       31         A       32         A       33         A       35         A       36         A       36         A       39         A       40         A       41         A       42         A       43         A       44         A       45         A       46         A       49         A       50         A       51         A       52         A       54         A       55         A       56	88.0% 74.0% 98.0% 32.0% 96.0%
A 22 A 23 A 24 A 25 A 26 A 30 A 31 A 32 A 33 A 34 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56 A 56 A 56	98.0% 32.0%
A 23 A 24 A 25 A 26 A 26 A 27 A 28 A 29 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	32.0%
A 24 A 25 A 26 A 26 A 27 A 28 A 29 A 30 A 31 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	
A 25 A 26 A 27 A 28 A 29 A 30 A 31 A 32 A 33 A 34 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	96.0%
A 26 A 27 A 28 A 29 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	
A 27 A 28 A 29 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 36 A 37 A 38 A 40 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	36.0%
A 28 A 29 A 30 A 31 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	78.0%
A 29 A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	76.0%
A 30 A 31 A 32 A 33 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	56.0%
A 31 A 32 A 33 A 34 A 34 A 35 A 39 A 40 A 41 A 42 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56 B	80.0%
A 32 A 33 A 34 A 35 A 36 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56	28.0%
A 33 A 34 A 34 A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56 B	94.0%
A 34 A 35 A 36 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	94.0%
A 35 A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	54.0%
A 36 A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	54.0%
A 37 A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	52.0%
A 38 A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	42.0%
A 39 A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56	86.0%
A 40 A 41 A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56	98.0%
A 41 A 42 A 43 A 44 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	100%
A 42 A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	90.0%
A 43 A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	90.0%
A 44 A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	78.0%
A 45 A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	38.0%
A 46 A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	94.0%
A 47 A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 56	90.0%
A 48 A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	84.0%
A 49 A 50 A 51 A 52 A 53 A 54 A 55 A 56	72.0%
A 50 A 51 A 52 A 53 A 54 A 55 A 56	84.0%
A 51 A 52 A 53 A 54 A 55 A 56	68.0%
A 53 A 54 A 55 A 56	94.0%
A 54 A 55 A 56	76.0%
A 55 A 56	80.0%
A 56	82.0%
	34.0%
	54.0%
A 57	94.0%
A 58	82.0%
A 59	96.0%
A 60	98.0%
A 61	98.0%
A 62	86.0%
A 63	34.0%
A 64	98.0%
A 65	96.0%
A 66	92.0%
A 67	96.0%
A 68	88.0%
A 69	38.0%
A 70	86.0%
A 71 A 72	98.0% 92.0%
A 73 A 74	68.0% 68.0%
A 74	68.0%
A 76	86.0%
A 70	64.0%
A 78	60.0%
A 79	96.0%
A 80	72.0%
A 81	98.0%
A 82	30.0%
A 83	90.0%
A 84	52.0%
A 85	94.0%
A 86	90.0%
A 87	90.0%
A 88	80.0%
A 89	96.0%
A 90	12.0%
A 91	
A 92	56.0%
A 93	56.0% 96.0%
A 94	
A 95	96.0%
A 96	96.0% 84.0%
A 97	96.0% 84.0% 16.0%
A 98	96.0% 84.0% 16.0% 98.0%

Form	Question Number	Question Percentage
A A	99	8.0% 54.0%
A		100%
	101	
Α	102	100%
A	103	96.0%
A	104	58.0%
Α	105	60.0%
Α	106	40.0%
Α	107	86.0%
Α	108	96.0%
Α	109	88.0%
Α	110	52.0%
Α	111	60.0%
Α	112	76.0%
Α	113	52.0%
Α	114	56.0%
Α	115	88.0%
A	116	40.0%
A	117	54.0%
A	118	94.0%
		68.0%
Α	119	
A	120	24.0%
A	121	70.0%
A	122	96.0%
Α	123	66.0%
Α	124	96.0%
Α	125	14.0%
Α	126	18.0%
Α	127	20.0%
Α	128	58.0%
A	129	100%
Α	130	98.0%
A	131	94.0%
Α	132	92.0%
A	133	90.0%
A	134	68.0%
A	135	98.0%
A	136	84.0%
A	137	88.0%
Α .	138	60.0%
A	139	8.0%
Α .	140	66.0%
Α	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%
Α	148	6.0%
A	149	76.0%
A	150	88.0%
В	1	6.1%
В	2	36.7%
В	3	83.7%
		100%
В	4	
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%
В	15	98.0%
В	16	71.4%
В	17	83.7%
В	18	93.9%
В	19	75.5%
В	20	100%
В	21	77.6%
В	22	85.7%
В	23	71.4%
В	24	75.5%
В	25	93.9%
	26	100%
В		

Form	Question Number	Question Percentage
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	34	98.0%
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%
В	59	79.6%
В	60	55.1%
В	61	95.9%
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%
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%
D		

Form	Question Number	Question Percentage
В	107	59.2%
В	108	79.6%
В	109	91.8%
В	110	83.7%
В	111	89.8%
В	112	100%
В	113	87.8%
В	114	61.2%
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%
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%

Final Project STAT 124

Section B: Question Analysis Sorted by Question Percentage

Question Percentage	Form	Question Number
100%	В	4
100%	Α	9
100%	В	14
100%	В	20
100%	В	26
100%	Α	39
100%	В	58
100%	В	98
100%	Α	101
100%	Α	102
100%	В	112
100%	В	123
100%	Α	129
100%	Α	147
100%	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

Question Percentage	Form	Question Number
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%	A	92
	A	
96.0%		103
96.0%	Α	108
96.0%	Α	122
96.0%	Α	124
96.0%	Α	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
	В	
95.9%	_	129
95.9%	В	142
94.0%	Α	4
94.0%	Α	31
94.0%	Α	32
94.0%	Α	45
94.0%	Α	51
94.0%	Α	57
94.0%	Α	85
94.0%	Α	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%	Α	72
92.0%	A	132
	_	
92.0%	A	143
91.8%	В	11
91.8%	В	36
91.8%	В	56
91.8%	В	72
91.8%	В	75
91.8%	В	88
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%	Α	40
90.0%	Α	41
90.0%	Α	46
90.0%	A	83
90.0%	A	86
	_	
90.0%	A	87
90.0%	Α	96
90.0%	Α	133
89.8%	В	13
89.8%	В	48
89.8%	В	71
89.8%	В	111
89.8%	В	126
89.8%	В	136
88.0%	A	8
00.0%	A	20
88.0%		

88.0% A 68 88.0% A 109 88.0% A 115 88.0% A 137 88.0% A 150 87.8% B 37 87.8% B 46 87.8% B 113 86.0% A 62 86.0% A 62 86.0% A 70 86.0% A 70 86.0% A 76 86.0% A 107 85.7% B 122 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 136 83.7% B 17 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B			
88.0% A 109 88.0% A 115 88.0% A 150 88.0% A 150 87.8% B 37 87.8% B 46 87.8% B 113 86.0% A 62 86.0% A 62 86.0% A 70 86.0% A 70 86.0% A 70 86.0% A 70 86.0% A 107 85.7% B 122 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 105 83.7% B	Question Percentage	Form	Question Number
88.0% A 115 88.0% A 137 88.0% A 150 87.8% B 37 87.8% B 46 67.8% B 113 86.0% A 62 86.0% A 62 86.0% A 70 86.0% A 70 86.0% A 70 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 47 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B 104 84.0% A 144 80.0% A 229 80.0% A 229 80.0% A 229 80.0% A 229 80.0% A 266 80.0% A 76.0% A 144 80.0% A 227 80.0% A 144 80.0% A 228 80.0% A 238 80.0% A 238		_	68
88.0% A 137 88.0% A 150 87.8% B 37 87.8% B 46 87.8% B 113 86.0% A 37 86.0% A 62 88.0% A 70 86.0% A 76 86.0% A 70 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 47 84.0% A 47 84.0% A 47 84.0% A 33 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B 106 84.0% A 22 85.0% A 32 8	88.0%	Α	109
88.0% A 150 87.8% B 37 87.8% B 46 87.8% B 113 86.0% A 37 86.0% A 62 86.0% A 70 86.0% A 70 86.0% A 70 86.0% A 107 85.7% B 122 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 105 83.7% B 104 81.6% B 105 81.6%	88.0%	Α	115
87.8% B	88.0%	Α	137
87.8% B 46 87.8% B 113 86.0% A 37 86.0% A 62 86.0% A 76 86.0% A 76 86.0% A 76 86.0% A 76 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B 106 83.7% B 106 84.0% A 29 80.0% A 53 80.0% A 53 80.0% A 76 80.0% A 27 80.0% A 144 80.0% A 27 80.0% A 26 80.0% A 27 80.0% A 144 80.0% A 27 8	88.0%	Α	150
87.8% B 113 86.0% A 37 86.0% A 62 86.0% A 70 86.0% A 70 86.0% A 70 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 49 84.0% A 136 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B 104 81.6%	87.8%	В	37
86.0% A 37 86.0% A 62 86.0% A 70 86.0% A 76 86.0% A 107 85.7% B 222 85.7% B 148 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 105 84.0% A 54 85.0% A 54 86.0% A 77 86.0% A 146 877.6% B 201 876.0% A 144 876.	87.8%	В	46
86.0% A 62 86.0% A 70 86.0% A 76 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 55 84.0% A 47 84.0% A 49 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 105 83.7% B 104 81.6% A 144 81.	87.8%	В	113
86.0% A 70 86.0% A 76 86.0% A 76 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 5 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 17 83.7% B 17 83.7% B 105 83.7% B 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6% B 104 81.6% A 104 81.6%	86.0%	Α	37
86.0% A 76 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 55 84.0% A 47 84.0% A 49 84.0% A 49 84.0% A 136 83.7% B 17 83.7% B 105 83.7% B 104 81.6% B 106 79.6% B 108 7	86.0%	Α	62
86.0% A 76 86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 55 84.0% A 47 84.0% A 49 84.0% A 49 84.0% A 136 83.7% B 17 83.7% B 105 83.7% B 104 81.6% B 106 79.6% B 108 7	86.0%	Α	70
86.0% A 107 85.7% B 22 85.7% B 148 84.0% A 5 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 105 83.7% B 104 81.6% B 105 81.0% A 22 80.0% A 22 80.0% A 26 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 146 77.6% B 21 77.6% B 89 76.0% A 127 76.0% A 227 76.0% A 127 76.0% A 121 76.0% A 133 76.0% A 121 76.0% A 134 77.5% B 130		Α	76
85.7% B 148 84.0% A 5 84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 93 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 105 83.7% B 106 83.7% B 104 81.6% B 106 79.6% B 108 79.6% A 26 78.0% A 26 78.0% A 27 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 22 76.0% A 122 76.0% A 122 76.0% A 144 76.0% A		Α	
85.7% B 148 84.0% A 5 84.0% A 49 84.0% A 93 84.0% A 93 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 105 83.7% B 106 81.6% B 79 81.6% B 104 81.6% B 105 81.6% B 106 79.6% B 108 79.6% A 26 78.0% A 27 78.0% A 26 78.0% A 146 77.6% B 29 76.0% A 122 76.0% A 122 76.0% A 144 76.0%			
84.0% A		_	
84.0% A 47 84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 3 83.7% B 17 83.7% B 105 83.7% B 106 82.0% A 54 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 105 80.0% A 29 80.0% A 88 79.6% B 108 79.6% A 26 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 144 76.0% A 127 76.0% A 144 76.0% A 141 73.5% B 191 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 104 77.5% B 10		_	
84.0% A 49 84.0% A 93 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 105 83.0% A 58 81.6% B 79 81.6% B 104 81.6% B 105 80.0% A 29 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 108 79.6% A 77 78.0% A 26 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 144 77.6% B 221 77.6% B 89 76.0% A 127 76.0% A 127 76.0% A 127 76.0% A 144		_	
84.0% A 93 84.0% A 136 83.7% B 33 83.7% B 17 83.7% B 64 83.7% B 105 83.7% B 107 82.0% A 54 82.0% A 54 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 138 77.6% A 26 78.0% A 26 78.0% A 27 78.0% A 26 77.6% B 21 77.6% B 39 76.0% A 146 77.6% B 21 77.6% B 39 76.0% A 127 76.0% A 127 76.0% A 127 76.0% A 144 76.0% A 142 76.0% A 144 76			
84.0% A 136 83.7% B 3 83.7% B 17 83.7% B 64 83.7% B 105 83.7% B 106 82.0% A 54 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 53 80.0% A 53 80.0% A 63 879.6% B 106 79.6% B 108 79.6% A 26 78.0% A 27 76.0% A 146 77.6% B 21 77.6% B 89 76.0% A 127 76.0% A 127 76.0% A 127 76.0% A 127 76.0% A 144 76.0% A 14			
83.7% B 33.7% B 17 83.7% B 64 83.7% B 105 83.7% B 105 83.7% B 110 82.0% A 17 82.0% A 54 82.0% A 54 82.0% A 54 81.6% B 68 81.6% B 104 81.6% B 105 79.6% B 106 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 121 76.0% A 127 76.0% A 144 76.0% A 1			
83.7% B 17 83.7% B 64 83.7% B 105 83.7% B 110 82.0% A 17 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 106 79.6% B 108 79.6% B 138 78.0% A 77 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 144 76.0% A 133 76.0% A 22 76.0% A 144 76.0%			
83.7% B 64 83.7% B 105 83.7% B 105 83.7% B 110 82.0% A 17 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 104 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 106 79.6% B 106 79.6% B 108 79.6% A 26 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 39 76.0% A 12 76.0% A 12 76.0% A 12 76.0% A 144 76.5% B 19 75.5% B 19 75.5% B 24 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 91 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 91 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 23 70.0% A 121 68.0% A 74		_	
83.7% B 105 83.7% B 110 82.0% A 17 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 106 79.6% B 106 79.6% B 108 79.6% A 26 76.0% A 144 76.0% A 127 76.0% A 127 76.0% A 144 76.5% B 29 75.5% B 19 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 166 71.4% B 23 70.0% A 121		-	
83.7% B 110 82.0% A 17 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 88 79.6% B 106 79.6% B 106 79.6% B 108 79.6% B 138 78.0% A 77 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 89 76.0% A 121 77.6% B 89 76.0% A 123 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 144 76.5% B 19 75.5% B 19 75.5% B 10 75.5% B 100 75.5% B 101 75.5% B 102 75.5% B 104 75		В	64
82.0% A 17 82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 105 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 89 76.0% A 144 77.6% B 89 76.0% A 133 76.0% A 121 76.0% A 144 76.5% B 29 75.5% B 19 75.5% B 19 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 66 73.5% B 61 73.5% B 61 73.5% B 63 73.5% B 61 73.5% B 63 73.5% B 63 73.5% B 64 73.5% B 134 72.0% A 80 71.4% B 23 70.0% A 66 70.0% A 121	83.7%	В	105
82.0% A 54 82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 21 77.6% B 21 77.6% B 21 77.6% B 32 76.0% A 146 77.6% B 121 77.6% A 122 76.0% A 122 76.0% A 144 76.0% A 14	83.7%	В	110
82.0% A 58 81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 138 78.0% A 77 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 146 77.6% B 121 77.6% B 89 76.0% A 121 76.0% A 127 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 19 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 104 74.0% A 121	82.0%	А	17
81.6% B 68 81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 21 77.6% B 82 77.6% B 133 76.0% A 146 77.6% B 21 77.6% B 21 77.6% B 89 76.0% A 144 76.0% A 121 76.0% A 144 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 19 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 1	82.0%	Α	54
81.6% B 79 81.6% B 104 81.6% B 104 81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 88 79.6% B 59 79.6% B 108 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 77 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 146 77.6% B 21 77.6% B 89 76.0% A 121 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 19 75.5% B 24 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 102 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 66 73.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 162 70.0% A 102 70.0% A 102 70.0% A 102 70.0% A 103 70.0% A 104 70.0%	82.0%	А	58
81.6% B 104 81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 43 78.0% A 97 78.0% A 146 77.6% B 81 77.6% B 82 76.0% A 146 77.6% B 82 76.0% A 121 76.0% A 144 76.5% B 29 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 104 75.5% B 104 75.5% B 105 75.5% B 107 75.5% B	81.6%	В	68
81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 146 77.6% B 89 76.0% A 121 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 144 76.5% B 19 75.5% B 19 75.5% B 24 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 166 71.4% B 23 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 74	81.6%	В	79
81.6% B 124 80.0% A 29 80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 26 78.0% A 26 78.0% A 26 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 146 77.6% B 89 76.0% A 121 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 144 76.5% B 19 75.5% B 19 75.5% B 24 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 166 71.4% B 23 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 74	81.6%	В	104
80.0% A 29 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 121 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 19 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 19 73.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 102 75.5% B 104 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 102 75.5% B 104 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 104 74.0% A 141 74.0% A 141 73.5% B 63 73.5% B 104 74.0% A 141 74.0% A		В	124
80.0% A 53 80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 8 21 77.6% B 89 76.0% A 146 77.6% B 89 76.0% A 13 76.0% A 13 76.0% A 121 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 663 73.5% B 613 74.0% A 141 73.5% B 613 74.0% A 141 73.5% B 613 74.0% A 141 73.5% B 663 73.5% B 91 73.5% B 102 75.5% B 103 74.0% A 141 73.5% B 663 73.5% B 663 73.5% B 663 73.5% B 663 73.5% B 134 72.0% A 80 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 68.0% A 73 68.0% A 74		Α	
80.0% A 88 79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 43 78.0% A 97 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 82 76.0% A 13 76.0% A 22 76.0% A 13 76.0% A 127 76.0% A 127 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 144 76.5% B 19 75.5% B 19 75.5% B 19 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 66 73.5% B 61 73.5% B 61 73.5% B 61 73.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 66 73.5% B 61 73.5% B 61 73.5% B 61 73.5% B 61 73.5% B 134 72.0% A 80 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 68.0% A 73			
79.6% B 59 79.6% B 106 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 121 77.6% A 13 76.0% A 27 76.0% A 13 76.0% A 127 76.0% A 127 76.0% A 127 76.0% A 144 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 19 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 164 73.5% B 164 73.5% B 166 73.5% B 134 72.0% A 80 71.4% B 123 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 73			
79.6% B 108 79.6% B 108 79.6% B 108 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 13 76.0% A 13 76.0% A 27 76.0% A 13 76.0% A 121 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5%		_	
79.6% B 108 79.6% B 138 79.6% B 138 78.0% A 7 78.0% A 26 78.0% A 97 78.0% A 97 78.0% A 146 77.6% B 221 77.6% B 89 76.0% A 13 76.0% A 22 76.0% A 13 76.0% A 127 76.0% A 127 76.0% A 144 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 29 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 73		_	
79.6% B 138 78.0% A 76.0% A 26 78.0% A 97 78.0% A 97 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 13 76.0% A 13 76.0% A 13 76.0% A 12 76.0% A 12 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 74.0% A 141 73.5% B 63 74.0% A 141 73.5% B 63 74.0% A 141 73.5% B 130 74.0% A 141 74.0% A 141 73.5% B 63 74.0% A 141 74.0% A 141 73.5% B 63 74.0% A 141 74.0% A 141 74.0% A 141 74.0% A 141 73.5% B 63 74.0% A 141 75.5% B 134 76.0% A 160 76.0% A		_	
78.0% A 78.0% A 26 78.0% A 26 78.0% A 37.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 13 76.0% A 13 76.0% A 22 76.0% A 13 76.0% A 12 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 19 75.5% B 24 75.5% B 24 75.5% B 20 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 60 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 68.0% A 73			
78.0% A 26 78.0% A 43 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 133 76.0% A 22 76.0% A 133 76.0% A 127 76.0% A 121 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 30 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 102 74.0% A 141 73.5% B 63 73.5% B 102 74.0% A 141 73.5% B 102 75.5% B			
78.0% A 43 78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 22 76.0% A 13 76.0% A 27 76.0% A 121 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 130 74.0% A 141 73.5% B 63 73.5% B 102 75.5% B 130 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 73			
78.0% A 97 78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 2 76.0% A 13 76.0% A 52 76.0% A 122 76.0% A 144 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 29 75.5% B 29 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5			
78.0% A 146 77.6% B 21 77.6% B 89 76.0% A 2 76.0% A 13 76.0% A 27 76.0% A 52 76.0% A 112 76.0% A 114 76.0% A 144 76.0% A 144 75.5% B 19 75.5% B 29 75.5% B 30 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 164 73.5% B 165 73.5% B 130 74.0% A 141 73.5% B 166 73.5% B 134 72.0% A 80 71.4% B 166 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 68.0% A 73			
77.6% B 21 77.6% B 89 76.0% A 22 76.0% A 13 76.0% A 27 76.0% A 52 76.0% A 112 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 29 75.5% B 30 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 101 75.5% B 102 75.			
77.6% B 89 76.0% A 2 76.0% A 13 76.0% A 27 76.0% A 52 76.0% A 112 76.0% A 112 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 29 75.5% B 29 75.5% B 80 75.5% B 101 75.5% B 102 75.5		Α	
76.0% A 2 76.0% A 13 76.0% A 27 76.0% A 52 76.0% A 52 76.0% A 112 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 29 75.5% B 54 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 141 73.5% B 102 75.5% B 130 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 63 73.5% B 134 72.0% A 148 72.0% A 16 71.4% B	77.6%	В	21
76.0% A 13 76.0% A 27 76.0% A 27 76.0% A 52 76.0% A 112 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 80 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102 75	77.6%	В	89
76.0% A 27 76.0% A 52 76.0% A 112 76.0% A 144 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 80 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102	76.0%	Α	2
76.0% A 52 76.0% A 112 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 80 75.5% B 80 75.5% B 101 75.5% B 80 75.5% B	76.0%	A	13
76.0% A 112 76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 80 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 104 75.5% B 105 75.5% B 106 75.5% B 107 75.5% B 10	76.0%	Α	27
76.0% A 144 76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 54 75.5% B 80 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 163 73.5% B 134 72.0% A 48 72.0% A 48 72.0% A 48 72.0% A 48 72.0% A 66 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 123 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73	76.0%	Α	52
76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 54 75.5% B 54 75.5% B 80 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 211 74.0% A 141 73.5% B 66 73.5% B 91 73.5% B 91 73.5% B 103 74.0% A 80 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 68.0% A 74	76.0%	Α	112
76.0% A 149 75.5% B 19 75.5% B 24 75.5% B 29 75.5% B 54 75.5% B 54 75.5% B 80 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 103 74.0% A 211 74.0% A 141 73.5% B 66 73.5% B 91 73.5% B 91 73.5% B 103 74.0% A 80 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 39 68.0% A 74	76.0%	Α	144
75.5% B 19 75.5% B 24 75.5% B 24 75.5% B 29 75.5% B 54 75.5% B 54 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 80 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 62 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 74			
75.5% B 24 75.5% B 29 75.5% B 54 75.5% B 54 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 102 75.5% B 103 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 62 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 74		_	
75.5% B 29 75.5% B 54 75.5% B 80 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 74		_	
75.5% B 54 75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 69.4% B 49 68.0% A 73 68.0% A 74			
75.5% B 80 75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 39 68.0% A 73 68.0% A 74		_	
75.5% B 101 75.5% B 102 75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 63 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 74		_	
75.5% B 102 75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 6 73.5% B 63 73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 74			
75.5% B 130 74.0% A 21 74.0% A 141 73.5% B 6 73.5% B 63 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 73 68.0% A 74			
74.0% A 21 74.0% A 141 73.5% B 66 73.5% B 63 73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 74			
74.0% A 141 73.5% B 6 73.5% B 63 73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 74			
73.5% B 6 73.5% B 63 73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 66 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73			
73.5% B 63 73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 74		_	
73.5% B 91 73.5% B 91 73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74		_	
73.5% B 134 72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73			
72.0% A 48 72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73		_	
72.0% A 80 71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	73.5%	В	134
71.4% B 16 71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	72.0%	Α	48
71.4% B 23 70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	72.0%	А	80
70.0% A 6 70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	71.4%	В	16
70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	71.4%	В	23
70.0% A 121 69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74	70.0%	Α	6
69.4% B 39 69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74			
69.4% B 49 68.0% A 50 68.0% A 73 68.0% A 74			
68.0% A 50 68.0% A 73 68.0% A 74			
68.0% A 73 68.0% A 74			
68.0% A 74		_	
EN COLL I A	68.0%	A	74

Question Percentage	Form	Question Number
68.0%	Α	119
68.0%	Α	134
67.3%	В	8
67.3%	В	51
67.3%	В	74
66.0%	Α	12
66.0%	Α	14
66.0%	Α	15
66.0%	Α	123
66.0%	A	140
65.3%	В	55
65.3%	В	127
64.0%	Α	77
63.3%	В	9
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%	A	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%	В	76
59.2%	В	107
59.2%	В	133
	A	
58.0%	_	104
58.0%	Α	128
57.1%	В	30
56.0%	Α	28
56.0%	Α	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%	A	34
54.0%	А	56
54.0%	Α	100
54.0%	A	117
53.1%	В	97
53.1%	В	145
52.0%	A	18
52.0%	A	35
52.0%	Α	42
52.0%	А	84
52.0%	Α	110
52.0%	Α	113
51.0%	В	5
51.0%	В	120
50.0%	Α	10
46.0%	А	16
42.9%	В	143
42.0%	A	3
42.0%	A	36
	_	
40.8%	В	87
40.8%	В	131
40.0%	Α	106
40.0%	Α	116
38.8%	В	38
38.0%	A	44
38.0%	А	69
36.7%	В	2
36.7%	В	7
36.0%	Α	25
	A	
36.0%	_	98
34.7%	В	128
34.0%	А	55
34.0%	Α	63
32.7%	В	57
32.7%	В	86
JZ.1 70	-	. 30

		1
Question Percentage	Form	Question Number
32.0%	Α	23
30.6%	В	82
30.6%	В	95
30.0%	Α	11
30.0%	Α	82
28.6%	В	146
28.0%	Α	19
28.0%	Α	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
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

Final Project STAT 124