

project

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```
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.5.2
```

```
##
```

```
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(MASS)
```

```
##
```

```
## Attaching package: 'MASS'
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
##      select
```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 3.5.2
```

```
library(purrr)
```

```
## Warning: package 'purrr' was built under R version 3.5.2
```

```
library(leaps)
```

```
library(glmnet)
```

```
## Warning: package 'glmnet' was built under R version 3.5.2
```

```
## Loading required package: Matrix
```

```
## Loading required package: foreach
```

```
## Warning: package 'foreach' was built under R version 3.5.2
```

```
##
```

```
## Attaching package: 'foreach'
```

```
## The following objects are masked from 'package:purrr':
```

```
##
```

```
##      accumulate, when
```

```
## Loaded glmnet 2.0-16
```

Data Cleaning

```
#Uploading Dataset
CPS.data <- read.csv("Chicago_Public_Schools_-_Progress_Report_Cards__2011-2012_.csv")

#Cleaning Data
CPS.data$Link <- NULL
CPS.data$Phone.Number <- NULL
CPS.data$State <- NULL
CPS.data$Street.Address <- NULL
CPS.data$Location <- NULL
CPS.data$City <- NULL
CPS.data$RCDTS.Code <- NULL

#Removing NDA values from variables and changing the values to NA
for(i in names(CPS.data)) {
  for(j in 1:nrow(CPS.data)) {
    if(isTRUE(CPS.data[j,i] == "NDA")) { CPS.data[j, i] = NA}
  }
}

#View
head(CPS.data)
```

```
##      School.ID
## 1      610038
## 2      610281
## 3      610185
## 4      609993
## 5      610513
## 6      610212
##
##                                     Name.of.School
## 1                                Abraham Lincoln Elementary School
## 2 Adam Clayton Powell Paideia Community Academy Elementary School
## 3                                Adlai E Stevenson Elementary School
## 4                                Agustin Lara Elementary Academy
## 5                                Air Force Academy High School
## 6                                Albany Park Multicultural Academy
##      Elementary..Middle..or.High.School ZIP.Code
## 1                                ES      60614
## 2                                ES      60649
## 3                                ES      60652
## 4                                ES      60609
## 5                                HS      60609
## 6                                MS      60625
##
##      Network.Manager      Collaborative.Name
## 1      Fullerton Elementary Network NORTH-NORTHWEST SIDE COLLABORATIVE
## 2      Skyway Elementary Network      SOUTH SIDE COLLABORATIVE
## 3      Midway Elementary Network      SOUTHWEST SIDE COLLABORATIVE
## 4      Pershing Elementary Network      SOUTHWEST SIDE COLLABORATIVE
## 5      Southwest Side High School Network      SOUTHWEST SIDE COLLABORATIVE
## 6      O'Hare Elementary Network NORTH-NORTHWEST SIDE COLLABORATIVE
##      Adequate.Yearly.Progress.Made. Track.Schedule
## 1      No      Standard
```

## 2	No	Track_E
## 3	No	Standard
## 4	No	Track_E
## 5	<NA>	Standard
## 6	Yes	Standard
##	CPS.Performance.Policy.Status	CPS.Performance.Policy.Level
## 1	Not on Probation	Level 1
## 2	Not on Probation	Level 1
## 3	Not on Probation	Level 2
## 4	Not on Probation	Level 1
## 5	Not on Probation	Not Enough Data
## 6	Not on Probation	Level 1
##	Healthy.Schools.Certified.	Safety.Icon Safety.Score
## 1	Yes Very Strong	99
## 2	No Average	54
## 3	No Strong	61
## 4	No Average	56
## 5	Yes Average	49
## 6	No Strong	66
##	Family.Involvement.Icon	Family.Involvement.Score Environment.Icon
## 1	Very Strong	99 Strong
## 2	Strong	66 Strong
## 3	<NA>	<NA> Average
## 4	Average	44 Average
## 5	Strong	60 Strong
## 6	Weak	37 Strong
##	Environment.Score	Instruction.Icon Instruction.Score Leaders.Icon
## 1	74 Strong	66 Strong
## 2	74 Very Strong	84 Strong
## 3	50 Weak	36 <NA>
## 4	45 Weak	37 Strong
## 5	60 Average	55 Average
## 6	66 Strong	71 Average
##	Leaders.Score	Teachers.Icon Teachers.Score Parent.Engagement.Icon
## 1	65 Strong	70 Strong
## 2	63 Strong	76 Weak
## 3	<NA>	<NA> Average
## 4	65 Average	48 Average
## 5	45 Average	54 Average
## 6	43 Average	50 Weak
##	Parent.Engagement.Score	Parent.Environment.Icon Parent.Environment.Score
## 1	56 Average	47
## 2	46 Average	50
## 3	47 Weak	41
## 4	53 Strong	58
## 5	53 Average	49
## 6	46 Average	51
##	Average.Student.Attendance	Rate.of.Misconducts..per.100.students.
## 1	96.0	2.0
## 2	95.6	15.7
## 3	95.7	2.3
## 4	95.5	10.4
## 5	93.3	15.6
## 6	97.0	2.3

##	Average.Teacher.Attendance		
## 1	96.4		
## 2	95.3		
## 3	94.7		
## 4	95.8		
## 5	96.9		
## 6	96.9		
##	Individualized.Education.Program.Compliance.Rate Pk.2.Literacy..		
## 1	95.8	80.1	
## 2	100.0	62.4	
## 3	98.3	53.7	
## 4	100.0	76.9	
## 5	100.0	<NA>	
## 6	100.0	<NA>	
##	Pk.2.Math.. Gr3.5.Grade.Level.Math.. Gr3.5.Grade.Level.Read..		
## 1	43.3	89.6	84.9
## 2	51.7	21.9	15.1
## 3	26.6	38.3	34.7
## 4	<NA>	26	24.7
## 5	<NA>	<NA>	<NA>
## 6	<NA>	<NA>	<NA>
##	Gr3.5.Keep.Pace.Read.. Gr3.5.Keep.Pace.Math.. Gr6.8.Grade.Level.Math..		
## 1	60.7	62.6	81.9
## 2	29	42.8	38.5
## 3	43.7	57.3	48.8
## 4	61.8	49.7	39.2
## 5	<NA>	<NA>	<NA>
## 6	<NA>	<NA>	60.7
##	Gr6.8.Grade.Level.Read.. Gr6.8.Keep.Pace.Math.. Gr6.8.Keep.Pace.Read..		
## 1	85.2	52	62.4
## 2	27.4	44.8	42.7
## 3	39.2	46.8	44
## 4	27.2	69.7	60.6
## 5	<NA>	<NA>	<NA>
## 6	39.8	53.7	59.8
##	Gr.8.Explore.Math.. Gr.8.Explore.Read.. ISAT.Exceeding.Math..		
## 1	66.3	77.9	69.7
## 2	14.1	34.4	16.8
## 3	7.5	21.9	18.3
## 4	9.1	18.2	11.1
## 5	<NA>	<NA>	NA
## 6	17.5	20.8	34.5
##	ISAT.Exceeding.Reading.. ISAT.Value.Add.Math ISAT.Value.Add.Read		
## 1	64.4	0.2	0.9
## 2	16.5	0.7	1.4
## 3	15.5	-0.9	-1.0
## 4	9.6	0.9	2.4
## 5	NA	NA	NA
## 6	15.6	0.2	0.3
##	ISAT.Value.Add.Color.Math ISAT.Value.Add.Color.Read		
## 1	Yellow	Green	
## 2	Green	Green	
## 3	Red	Red	
## 4	Green	Green	

## 5	<NA>	<NA>
## 6	Yellow	Yellow
##	Students.Taking..Algebra..	Students.Passing..Algebra..
## 1	67.1	54.5
## 2	17.2	27.3
## 3	<NA>	<NA>
## 4	42.9	25
## 5	<NA>	<NA>
## 6	29.2	50
##	X9th.Grade.EXPLORE..2009.	X9th.Grade.EXPLORE..2010.
## 1	<NA>	<NA>
## 2	<NA>	<NA>
## 3	<NA>	<NA>
## 4	<NA>	<NA>
## 5	14.6	14.8
## 6	<NA>	<NA>
##	X10th.Grade.PLAN..2009.	X10th.Grade.PLAN..2010.
## 1	<NA>	<NA>
## 2	<NA>	<NA>
## 3	<NA>	<NA>
## 4	<NA>	<NA>
## 5	<NA>	16
## 6	<NA>	<NA>
##	Net.Change.EXPLORE.and.PLAN	X11th.Grade.Average.ACT..2011.
## 1	<NA>	<NA>
## 2	<NA>	<NA>
## 3	<NA>	<NA>
## 4	<NA>	<NA>
## 5	1.4	<NA>
## 6	<NA>	<NA>
##	Net.Change.PLAN.and.ACT	College.Eligibility.. Graduation.Rate..
## 1	<NA>	<NA>
## 2	<NA>	<NA>
## 3	<NA>	<NA>
## 4	<NA>	<NA>
## 5	<NA>	<NA>
## 6	<NA>	<NA>
##	College.Enrollment.Rate..	College.Enrollment..number.of.students.
## 1	<NA>	813
## 2	<NA>	521
## 3	<NA>	1324
## 4	<NA>	556
## 5	<NA>	302
## 6	<NA>	266
##	General.Services.Route	Freshman.on.Track.Rate.. X_COORDINATE
## 1	33	<NA>
## 2	46	<NA>
## 3	44	<NA>
## 4	42	<NA>
## 5	40	91.8
## 6	31	<NA>
##	Y_COORDINATE	Latitude Longitude Community.Area.Number
## 1	1915829	41.92450 -87.64452
## 2	1856209	41.76032 -87.55674

```
## 3      1851012 41.74711 -87.73170      70
## 4      1873959 41.80976 -87.67214      61
## 5      1880745 41.82815 -87.63279      34
## 6      1932692 41.97114 -87.70963      14
```

```
## Community.Area.Name Ward Police.District
```

```
## 1      LINCOLN PARK 43      18
## 2      SOUTH SHORE 7      4
## 3      ASHBURN 13      8
## 4      NEW CITY 20      9
## 5      ARMOUR SQUARE 11      9
## 6      ALBANY PARK 39      17
```

```
#Data that only describes the numeric variables
```

```
numeric.data <- CPS.data[, map_lgl(CPS.data, is.numeric)]
```

```
head(numeric.data)
```

```
## School.ID ZIP.Code Safety.Score Environment.Score Instruction.Score
```

```
## 1      610038      60614      99      74      66
## 2      610281      60649      54      74      84
## 3      610185      60652      61      50      36
## 4      609993      60609      56      45      37
## 5      610513      60609      49      60      55
## 6      610212      60625      66      66      71
```

```
## Average.Student.Attendance Rate.of.Misconducts..per.100.students.
```

```
## 1      96.0      2.0
## 2      95.6      15.7
## 3      95.7      2.3
## 4      95.5      10.4
## 5      93.3      15.6
## 6      97.0      2.3
```

```
## Average.Teacher.Attendance
```

```
## 1      96.4
## 2      95.3
## 3      94.7
## 4      95.8
## 5      96.9
## 6      96.9
```

```
## Individualized.Education.Program.Compliance.Rate ISAT.Exceeding.Math..
```

```
## 1      95.8      69.7
## 2      100.0      16.8
## 3      98.3      18.3
## 4      100.0      11.1
## 5      100.0      NA
## 6      100.0      34.5
```

```
## ISAT.Exceeding.Reading.. ISAT.Value.Add.Math ISAT.Value.Add.Read
```

```
## 1      64.4      0.2      0.9
## 2      16.5      0.7      1.4
## 3      15.5      -0.9      -1.0
## 4      9.6      0.9      2.4
## 5      NA      NA      NA
## 6      15.6      0.2      0.3
```

```
## College.Enrollment..number.of.students. General.Services.Route
```

```
## 1      813      33
## 2      521      46
## 3      1324      44
```

```
## 4          556          42
## 5          302          40
## 6          266          31
##   X_COORDINATE Y_COORDINATE Latitude Longitude Community.Area.Number Ward
## 1      1171699      1915829 41.92450 -87.64452           7      43
## 2      1196130      1856209 41.76032 -87.55674          43      7
## 3      1148427      1851012 41.74711 -87.73170          70     13
## 4      1164504      1873959 41.80976 -87.67214          61     20
## 5      1175178      1880745 41.82815 -87.63279          34     11
## 6      1153858      1932692 41.97114 -87.70963          14     39
##   Police.District
## 1              18
## 2               4
## 3               8
## 4               9
## 5               9
## 6              17
```

```
# Erin's section
```

```
# Charles' section
```

```
# Norma's section
```

Ryan's Section

Ideas:

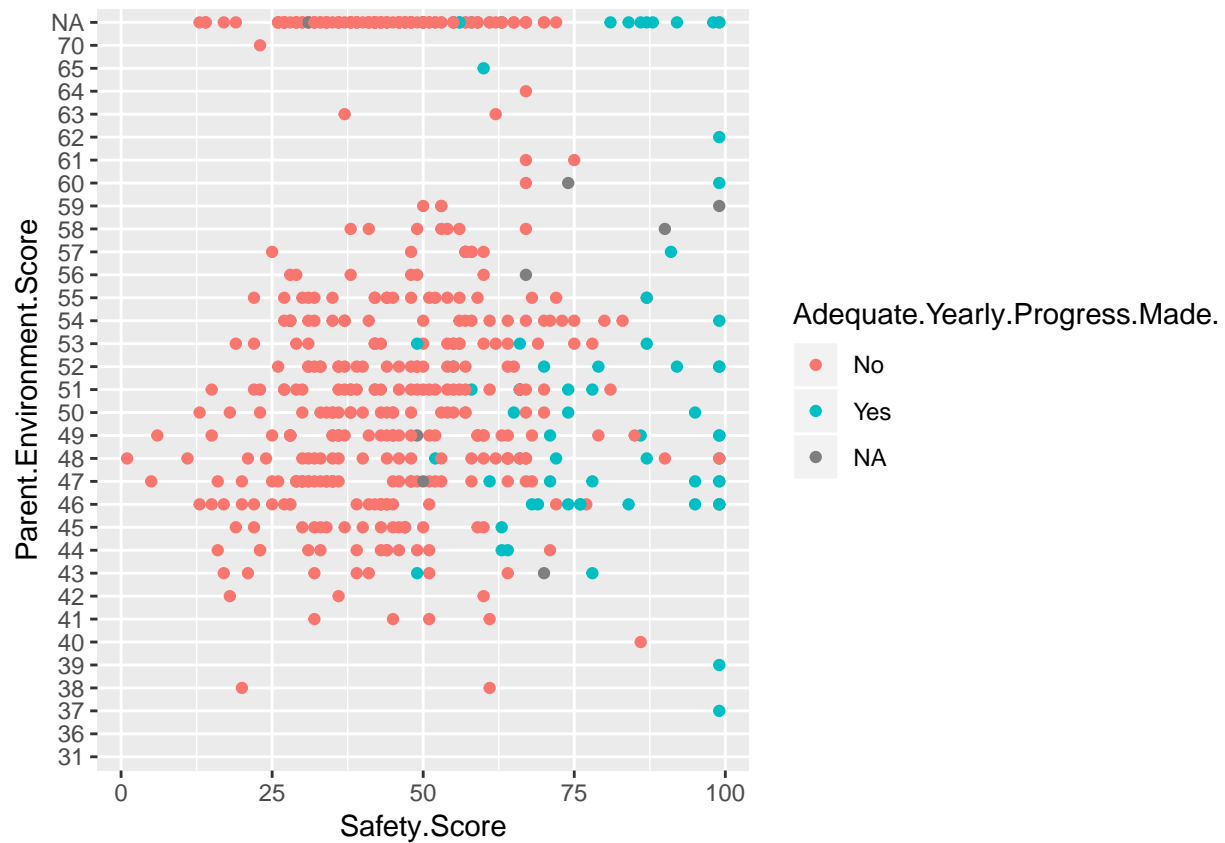
- Other Variables connection to classification
- Are there certain ways to categorize elementary middle and high school?

```
#Safety and Parents
```

```
ggplot(CPS.data) +
```

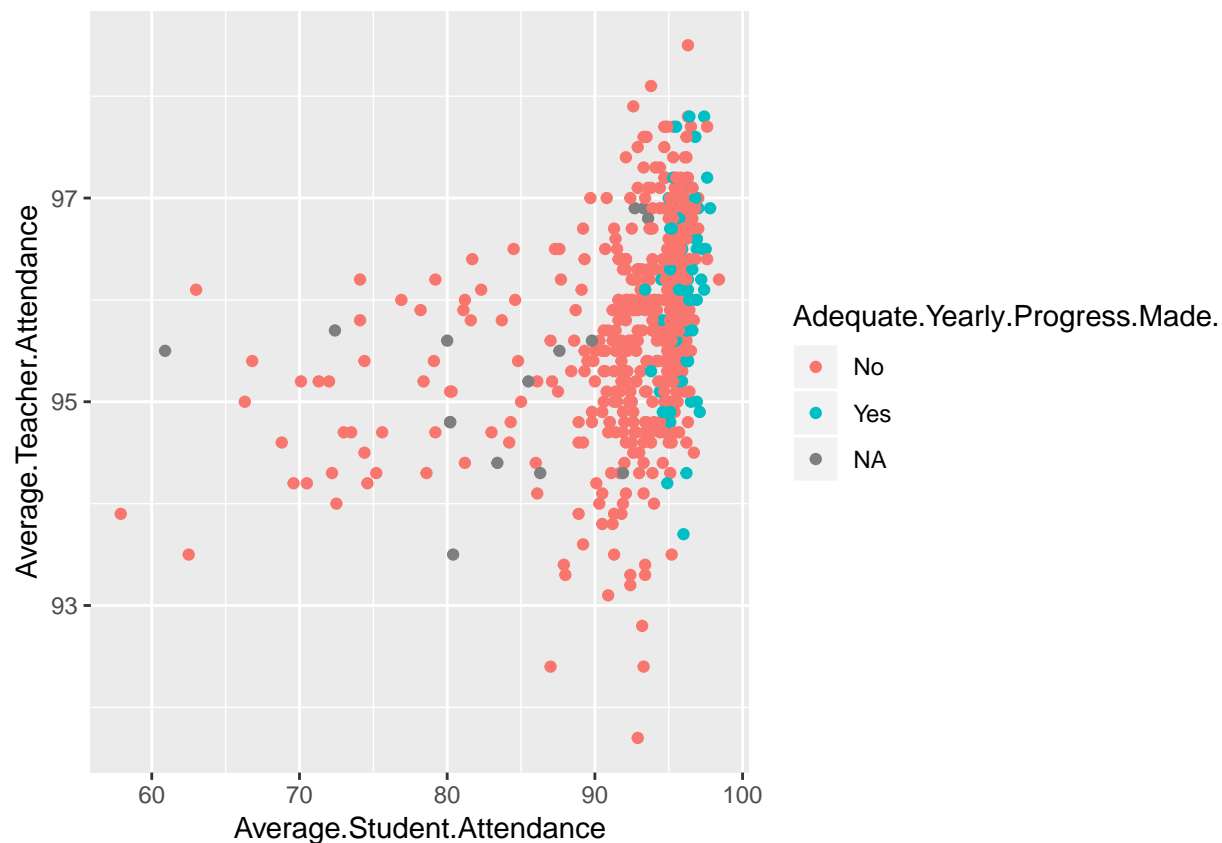
```
  geom_point(aes(x = Safety.Score, y = Parent.Environment.Score, col = Adequate.Yearly.Progress.Made.))
```

```
## Warning: Removed 53 rows containing missing values (geom_point).
```



```
#Attendance
ggplot(filter(CPS.data, Average.Teacher.Attendance != 0)) +
  geom_point(aes(x = Average.Student.Attendance, y = Average.Teacher.Attendance, col = Adequate.Yearly.
```

```
## Warning: package 'bindrcpp' was built under R version 3.5.2
## Warning: Removed 1 rows containing missing values (geom_point).
```

```
#
```

```
numeric.data
```

```
##      School.ID ZIP.Code Safety.Score Environment.Score Instruction.Score
## 1      610038    60614          99              74             66
## 2      610281    60649          54              74             84
## 3      610185    60652          61              50             36
## 4      609993    60609          56              45             37
## 5      610513    60609          49              60             55
## 6      610212    60625          66              66             71
## 7      609720    60618          88              62             52
## 8      610342    60622          67              30             18
## 9      610524    60618          70              67             51
## 10     610209    60625          43              28             37
## 11     609799    60618          99              64             46
## 12     609947    60609          49              31             33
## 13     609963    60657          73              60             59
## 14     610210    60622          31              32             45
## 15     609808    60628          28              58             60
## 16     610028    60628          19              22             13
## 17     610098    60651          37              37             35
## 18     609788    60643          46              39             58
## 19     610334    60624          52              51             53
## 20     610131    60608          45              32             28
## 21     610316    60617          81              60             73
## 22     609780    60647          38              27             35
```

## 23	610339	60621	23	35	42
## 24	610320	60622	57	12	14
## 25	609837	60637	48	37	63
## 26	610060	60607	86	57	46
## 27	609869	60636	31	54	32
## 28	610084	60655	99	85	82
## 29	610229	60622	59	58	61
## 30	610277	60615	32	64	76
## 31	609951	60653	NA	NA	NA
## 32	610161	60636	33	48	59
## 33	610171	60617	27	43	54
## 34	610037	60609	36	60	60
## 35	609887	60619	47	47	52
## 36	609836	60634	87	70	64
## 37	610268	60619	NA	NA	NA
## 38	609941	60636	15	41	48
## 39	610287	60652	48	52	40
## 40	609820	60657	99	78	65
## 41	400018	60644	38	41	33
## 42	610169	60637	23	38	34
## 43	610501	60644	38	45	53
## 44	609786	60619	32	38	32
## 45	609871	60655	NA	NA	NA
## 46	609922	60639	75	67	66
## 47	609764	60608	46	44	45
## 48	610265	60621	36	35	58
## 49	610290	60621	27	55	48
## 50	610076	60647	50	47	32
## 51	610150	60637	39	51	50
## 52	610175	60615	45	40	39
## 53	610087	60638	NA	NA	NA
## 54	609969	60637	63	77	76
## 55	610106	60651	27	29	31
## 56	610317	60632	55	49	43
## 57	610381	60615	41	42	43
## 58	609821	60617	61	85	99
## 59	609827	60619	51	58	70
## 60	610353	60632	58	59	72
## 61	609729	60641	48	36	29
## 62	610039	60618	68	66	75
## 63	610238	60621	54	67	63
## 64	609839	60652	35	12	12
## 65	610345	60653	26	2	1
## 66	610148	60609	54	63	52
## 67	609679	60639	59	53	51
## 68	610005	60623	42	82	72
## 69	609879	60652	44	27	30
## 70	609966	60623	40	41	43
## 71	610366	60643	32	34	32
## 72	610030	60615	36	35	40
## 73	609996	60608	53	50	35
## 74	609833	60617	25	40	44
## 75	609732	60634	26	29	34
## 76	609875	60647	58	44	34

## 77	609986	60636	16	32	38
## 78	609813	60637	20	79	82
## 79	609883	60619	55	49	51
## 80	610194	60624	41	44	48
## 81	609897	60636	24	62	71
## 82	610248	60634	66	40	22
## 83	610340	60634	58	57	53
## 84	609753	60655	87	49	47
## 85	609754	60653	32	23	35
## 86	609674	60617	27	21	30
## 87	609899	60631	78	66	50
## 88	609705	60628	36	41	32
## 89	609863	60622	66	57	55
## 90	609790	60620	25	28	34
## 91	610347	60636	36	50	51
## 92	610499	60623	60	51	46
## 93	610170	60632	59	59	63
## 94	610004	60628	14	28	34
## 95	609781	60609	45	64	57
## 96	609873	60623	27	51	52
## 97	610063	60623	NA	NA	NA
## 98	609804	60645	52	47	48
## 99	610083	60656	NA	NA	NA
## 100	610380	60615	50	45	54
## 101	609870	60623	39	31	29
## 102	609835	60651	42	49	50
## 103	610223	60621	30	34	36
## 104	610221	60624	48	81	66
## 105	609704	60623	43	42	32
## 106	610402	60618	NA	NA	NA
## 107	609885	60609	41	42	35
## 108	609859	60659	47	47	52
## 109	610515	60641	NA	NA	NA
## 110	610077	60629	28	32	39
## 111	610198	60617	34	20	1
## 112	610533	60639	NA	NA	NA
## 113	609751	60653	NA	NA	NA
## 114	610266	60637	19	25	49
## 115	610188	60628	46	65	71
## 116	610352	60652	61	57	58
## 117	610254	60623	46	66	69
## 118	609736	60615	27	35	47
## 119	610132	60628	99	66	88
## 120	609901	60646	99	51	53
## 121	610523	60631	95	52	49
## 122	609819	60615	1	13	22
## 123	609815	60649	33	55	50
## 124	610246	60609	47	34	48
## 125	609881	60624	38	66	52
## 126	609862	60617	22	40	54
## 127	609909	60608	NA	NA	NA
## 128	610012	60610	50	62	41
## 129	609904	60644	30	37	55
## 130	610006	60629	77	50	49

## 131	609735	60609	34	45	37
## 132	610315	60643	27	44	48
## 133	609708	60641	26	28	23
## 134	609913	60636	44	52	56
## 135	610233	60621	29	43	50
## 136	610227	60623	44	49	53
## 137	610195	60643	86	64	59
## 138	610119	60622	51	50	61
## 139	609852	60625	70	53	51
## 140	610235	60651	31	44	50
## 141	609682	60609	30	32	19
## 142	610073	60612	99	95	95
## 143	609712	60619	13	28	28
## 144	609973	60623	60	43	42
## 145	610065	60637	31	47	40
## 146	609916	60637	30	65	63
## 147	610203	60629	NA	NA	NA
## 148	610543	60632	67	53	63
## 149	610137	60630	71	49	42
## 150	609908	60643	36	49	43
## 151	609918	60626	42	47	37
## 152	609874	60656	44	12	1
## 153	610319	60609	60	47	44
## 154	610057	60629	31	41	34
## 155	610541	60618	53	53	58
## 156	610308	60612	NA	NA	NA
## 157	610120	60629	51	43	47
## 158	609917	60628	29	17	43
## 159	610258	60653	20	37	46
## 160	610096	60632	35	40	48
## 161	609924	60620	34	61	71
## 162	609927	60620	11	20	22
## 163	610215	60623	49	48	47
## 164	610067	60629	23	37	54
## 165	610114	60609	38	45	39
## 166	610020	60644	37	49	64
## 167	610112	60621	30	53	57
## 168	609800	60628	46	55	66
## 169	609939	60619	27	30	45
## 170	609926	60610	87	60	55
## 171	609958	60632	46	30	45
## 172	610144	60618	48	33	34
## 173	610165	60639	NA	NA	NA
## 174	610503	60624	60	84	72
## 175	609854	60622	86	99	99
## 176	610245	60644	44	39	37
## 177	609930	60647	16	14	16
## 178	610163	60631	NA	NA	NA
## 179	610010	60657	72	60	59
## 180	609737	60625	70	42	51
## 181	609709	60629	14	29	37
## 182	610009	60607	65	40	42
## 183	610072	60620	28	58	55
## 184	610293	60624	61	65	77

## 185	609779	60645	59	59	64
## 186	610062	60609	49	33	40
## 187	610196	60660	61	62	60
## 188	609849	60655	76	57	36
## 189	609761	60628	33	40	48
## 190	610305	60644	NA	NA	NA
## 191	610048	60610	43	49	40
## 192	610139	60628	59	66	75
## 193	609795	60644	39	32	36
## 194	609760	60627	53	37	34
## 195	609845	60827	25	33	30
## 196	610219	60617	58	33	43
## 197	609739	60617	46	36	36
## 198	609900	60628	23	43	58
## 199	609693	60624	74	77	80
## 200	610202	60624	6	30	41
## 201	609920	60623	44	48	48
## 202	610187	60640	49	46	57
## 203	610285	60636	35	43	31
## 204	610383	60623	43	46	44
## 205	609857	60618	64	58	47
## 206	610241	60624	26	65	76
## 207	609741	60629	42	34	29
## 208	609726	60628	64	44	49
## 209	610182	60659	78	67	62
## 210	610068	60639	35	34	33
## 211	610124	60619	28	45	63
## 212	610192	60647	28	26	31
## 213	610158	60707	68	41	50
## 214	609974	60657	92	61	56
## 215	609985	60624	29	26	63
## 216	610122	60660	58	32	22
## 217	609972	60625	43	57	49
## 218	609856	60633	38	30	30
## 219	610040	60639	NA	NA	NA
## 220	610092	60644	41	68	76
## 221	610279	60619	33	42	55
## 222	609861	60643	45	39	61
## 223	610297	60649	NA	NA	NA
## 224	609798	60641	64	67	69
## 225	609768	60621	31	37	44
## 226	609850	60613	65	48	38
## 227	610052	60617	28	31	30
## 228	610058	60644	42	47	56
## 229	609713	60637	29	34	43
## 230	610390	60660	64	64	42
## 231	610110	60653	49	64	93
## 232	610273	60623	31	63	98
## 233	610384	60623	58	66	65
## 234	610078	60613	67	50	51
## 235	609848	60827	39	36	39
## 236	610532	60632	34	27	27
## 237	610125	60608	57	57	62
## 238	610276	60653	44	46	38

## 239	610103	60649	17	28	29
## 240	610256	60653	NA	NA	NA
## 241	609797	60612	63	70	58
## 242	609766	60641	57	33	20
## 243	609912	60630	55	40	38
## 244	610070	60640	71	48	38
## 245	610066	60619	99	57	52
## 246	609803	60613	99	76	74
## 247	609983	60609	22	22	24
## 248	610047	60619	39	32	28
## 249	610074	60647	45	26	22
## 250	610200	60617	32	39	39
## 251	610107	60622	83	67	58
## 252	609891	60616	30	25	46
## 253	610044	60651	39	39	40
## 254	610174	60632	38	57	58
## 255	610213	60637	NA	NA	NA
## 256	610217	60616	49	50	46
## 257	610274	60623	67	61	75
## 258	609772	60617	56	44	46
## 259	610093	60619	42	27	28
## 260	609796	60630	63	49	47
## 261	610031	60622	44	43	38
## 262	610271	60612	35	42	67
## 263	609932	60628	NA	NA	NA
## 264	610173	60621	38	47	58
## 265	609942	60647	75	68	52
## 266	610216	60608	60	70	91
## 267	609789	60641	35	70	81
## 268	609894	60616	59	57	46
## 269	610089	60618	80	75	59
## 270	610243	60612	52	44	54
## 271	609829	60632	50	39	38
## 272	609866	60618	87	65	39
## 273	609893	60638	74	69	79
## 274	609959	60616	32	37	37
## 275	610176	60643	32	43	51
## 276	609898	60629	42	33	34
## 277	609919	60637	13	37	55
## 278	609718	60638	53	32	27
## 279	610263	60637	42	53	42
## 280	610228	60608	65	45	24
## 281	609694	60629	51	44	41
## 282	609971	60620	51	61	61
## 283	609975	60651	44	49	61
## 284	609964	60609	33	29	43
## 285	610026	60638	64	49	54
## 286	610207	60643	74	24	31
## 287	609782	60618	95	75	60
## 288	610126	60616	NA	NA	NA
## 289	610054	60617	72	53	39
## 290	609723	60624	51	45	46
## 291	609710	60628	NA	NA	NA
## 292	609954	60624	44	39	43

## 293	610180	60608	37	54	64
## 294	610199	60643	60	56	63
## 295	610111	60630	75	61	68
## 296	609775	60636	48	64	58
## 297	610184	60623	66	70	67
## 298	610269	60640	56	67	41
## 299	610130	60619	26	63	62
## 300	609864	60620	NA	NA	NA
## 301	609937	60656	60	50	51
## 302	610225	60643	45	41	28
## 303	609828	60622	71	68	51
## 304	610159	60641	44	21	20
## 305	609865	60626	61	57	49
## 306	610313	60622	57	37	40
## 307	609950	60623	NA	NA	NA
## 308	610242	60613	50	55	59
## 309	609938	60623	32	29	28
## 310	610041	60634	57	49	56
## 311	610015	60608	36	56	53
## 312	609925	60612	58	42	45
## 313	610043	60639	43	32	22
## 314	610189	60640	37	51	68
## 315	610218	60617	33	49	40
## 316	610019	60621	62	69	56
## 317	610129	60608	50	35	37
## 318	610022	60626	NA	NA	NA
## 319	610253	60623	67	58	26
## 320	610000	60644	67	90	69
## 321	610280	60617	31	24	20
## 322	610016	60620	76	57	63
## 323	609716	60639	32	32	28
## 324	609746	60615	63	48	56
## 325	609719	60613	64	52	43
## 326	610368	60628	28	16	30
## 327	610033	60614	99	62	52
## 328	610520	60622	66	36	52
## 329	609910	60641	54	48	27
## 330	610133	60624	NA	NA	NA
## 331	610034	60623	NA	NA	NA
## 332	610024	60623	NA	NA	NA
## 333	609907	60624	33	49	52
## 334	610298	60620	79	51	67
## 335	610036	60651	21	36	64
## 336	609738	60614	65	44	49
## 337	609807	60652	42	34	28
## 338	609834	60623	45	52	66
## 339	610325	60618	56	32	28
## 340	609809	60647	57	43	46
## 341	609773	60657	53	23	21
## 342	609774	60614	NA	NA	NA
## 343	610156	60644	42	49	62
## 344	610094	60657	58	34	30
## 345	610117	60629	50	42	38
## 346	610237	60609	40	58	59

## 347	610108	60636	5	33	40
## 348	609818	60639	37	42	34
## 349	609817	60625	59	33	38
## 350	610205	60640	56	47	25
## 351	610369	60620	38	54	66
## 352	610197	60622	63	59	71
## 353	609722	60612	41	43	31
## 354	609872	60608	45	42	45
## 355	610128	60643	50	50	48
## 356	610544	60629	54	61	81
## 357	610017	60623	60	55	64
## 358	609756	60632	43	37	45
## 359	610502	60612	41	38	34
## 360	610081	60616	74	53	63
## 361	610177	60607	87	48	53
## 362	610206	60638	67	46	44
## 363	610053	60629	15	17	17
## 364	610152	60619	43	37	41
## 365	610154	60624	40	48	43
## 366	610539	60634	54	37	41
## 367	610355	60613	99	95	80
## 368	610312	60619	NA	NA	NA
## 369	610127	60625	62	49	58
## 370	610046	60634	55	42	38
## 371	609888	60612	57	68	73
## 372	610365	60612	53	53	39
## 373	610535	60623	50	59	59
## 374	610240	60623	37	34	22
## 375	609935	60617	49	37	32
## 376	610362	60628	27	35	49
## 377	609928	60653	22	32	33
## 378	610055	60624	35	65	66
## 379	609832	60638	63	35	38
## 380	610244	60644	NA	NA	NA
## 381	610208	60628	15	41	46
## 382	609830	60651	30	30	45
## 383	610011	60659	64	62	66
## 384	610018	60615	57	31	37
## 385	609725	60643	40	25	38
## 386	610257	60612	53	66	63
## 387	610075	60608	28	42	14
## 388	610082	60655	84	58	38
## 389	610086	60643	31	42	44
## 390	610385	60623	48	47	42
## 391	609806	60649	31	41	50
## 392	609952	60609	NA	NA	NA
## 393	609960	60638	55	51	56
## 394	610134	60623	48	73	83
## 395	610348	60624	49	80	99
## 396	609876	60632	43	41	46
## 397	610231	60616	67	65	60
## 398	609692	60620	52	33	42
## 399	610085	60642	50	27	23
## 400	610284	60626	NA	NA	NA

## 401	610323	60617	17	37	25
## 402	609792	60618	55	50	47
## 403	609730	60660	48	45	42
## 404	609793	60621	48	74	73
## 405	609961	60617	36	61	55
## 406	609810	60634	67	49	35
## 407	609691	60639	42	39	25
## 408	610354	60625	67	53	51
## 409	609749	60625	99	99	88
## 410	609762	60643	28	30	35
## 411	609744	60659	99	81	34
## 412	610051	60639	34	17	13
## 413	610099	60631	99	69	68
## 414	610529	60622	56	39	24
## 415	610201	60634	70	47	40
## 416	610300	60620	30	48	54
## 417	609997	60621	21	23	41
## 418	610105	60656	99	88	71
## 419	610329	60608	55	34	44
## 420	610389	60624	NA	NA	NA
## 421	609811	60617	18	28	27
## 422	610367	60644	35	47	53
## 423	610059	60614	67	35	46
## 424	610021	60651	NA	NA	NA
## 425	610115	60637	28	42	48
## 426	610116	60649	NA	NA	NA
## 427	609988	60618	45	46	43
## 428	610003	60620	51	45	54
## 429	609676	60616	29	31	37
## 430	610146	60619	36	42	56
## 431	609707	60621	29	33	40
## 432	609791	60621	28	47	57
## 433	610395	60616	46	34	55
## 434	610145	60634	60	35	30
## 435	609867	60608	NA	NA	NA
## 436	610147	60645	81	68	62
## 437	609777	60608	36	34	14
## 438	610090	60615	66	34	37
## 439	609981	60638	33	31	27
## 440	610304	60612	53	59	78
## 441	610013	60608	43	49	55
## 442	610135	60641	62	46	32
## 443	610138	60647	68	54	57
## 444	609842	60629	38	45	56
## 445	609902	60628	NA	NA	NA
## 446	610141	60613	46	42	41
## 447	609769	60616	90	52	39
## 448	609903	60632	48	38	41
## 449	610291	60629	59	46	35
## 450	610239	60609	29	37	46
## 451	610102	60620	44	49	49
## 452	609702	60612	43	50	48
## 453	610234	60647	42	66	73
## 454	609695	60625	51	43	42

## 455	610350	60619	68	63	58
## 456	609906	60644	37	64	71
## 457	609929	60609	46	63	63
## 458	609979	60616	63	54	36
## 459	610045	60617	19	40	51
## 460	609956	60638	79	56	59
## 461	610391	60636	66	75	85
## 462	610252	60612	48	51	65
## 463	609759	60622	44	39	34
## 464	610029	60622	55	39	37
## 465	609733	60626	30	34	34
## 466	610091	60628	31	52	33
## 467	610282	60651	31	56	59
## 468	609826	60623	36	34	20
## 469	610056	60623	37	44	58
## 470	610027	60620	52	42	42
## 471	610250	60610	64	54	53
## 472	609995	60646	64	55	58
## 473	609853	60647	55	59	39
## 474	609943	60628	34	48	52
## 475	610155	60646	99	76	61
## 476	609805	60620	35	44	53
## 477	609968	60647	NA	NA	NA
## 478	610157	60632	57	41	39
## 479	610283	60621	30	38	22
## 480	610521	60636	35	51	54
## 481	610534	60610	NA	NA	NA
## 482	610226	60629	NA	NA	NA
## 483	610160	60628	17	47	54
## 484	609990	60605	84	34	36
## 485	610530	60637	NA	NA	NA
## 486	609745	60636	NA	NA	NA
## 487	610183	60644	35	57	71
## 488	610357	60623	70	92	87
## 489	609880	60645	99	99	99
## 490	609933	60626	39	35	27
## 491	609976	60660	72	52	44
## 492	609724	60659	58	48	47
## 493	610191	60659	78	55	43
## 494	610405	60612	NA	NA	NA
## 495	610249	60632	99	99	99
## 496	610396	60629	48	39	40
## 497	610506	60621	45	55	53
## 498	609921	60623	42	19	22
## 499	609991	60623	41	53	65
## 500	609728	60625	42	42	37
## 501	610178	60628	46	31	53
## 502	609794	60625	91	64	56
## 503	609987	60609	33	67	78
## 504	609851	60608	34	39	45
## 505	609896	60622	72	59	46
## 506	610002	60617	67	77	73
## 507	610295	60643	NA	NA	NA
## 508	610220	60625	85	56	54

## 509	609715	60632	36	36	35
## 510	610321	60618	39	11	1
## 511	609895	60620	56	48	51
## 512	610394	60640	50	61	62
## 513	610504	60609	NA	NA	NA
## 514	609989	60612	50	64	72
## 515	609944	60633	62	51	64
## 516	610518	60644	42	52	52
## 517	610363	60613	NA	NA	NA
## 518	610095	60614	71	52	66
## 519	609680	60610	98	80	77
## 520	609955	60620	25	7	11
## 521	610264	60621	29	62	68
## 522	609855	60632	NA	NA	NA
## 523	610179	60634	55	43	45
## 524	610121	60612	43	34	44
## 525	609740	60622	51	41	38
## 526	610032	60643	32	47	53
## 527	609727	60653	NA	NA	NA
## 528	609978	60628	22	1	1
## 529	610100	60651	29	36	40
## 530	610224	60628	23	55	47
## 531	610542	60645	67	41	28
## 532	609755	60607	95	69	67
## 533	610230	60646	99	77	67
## 534	610251	60612	69	78	81
## 535	610299	60621	18	30	29
## 536	610109	60652	49	39	56
## 537	610101	60610	NA	NA	NA
## 538	609945	60640	70	74	61
## 539	610143	60615	48	37	26
## 540	610364	60827	47	33	42
## 541	609884	60634	67	60	78
## 542	609967	60608	56	50	52
## 543	609994	60625	NA	NA	NA
## 544	609812	60612	36	58	78
## 545	610023	60612	47	44	47
## 546	609734	60631	61	37	32
## 547	610136	60614	90	51	24
## 548	610142	60637	69	22	12
## 549	610153	60620	34	42	50
## 550	610167	60609	40	38	41
## 551	609698	60652	20	18	29
## 552	610061	60653	52	62	65
## 553	610104	60631	64	29	27
## 554	609678	60605	92	64	67
## 555	610193	60617	27	35	40
## 556	610123	60623	78	99	99
## 557	609949	60641	57	44	35
## 558	610097	60639	52	70	62
## 559	609711	60636	22	39	42
## 560	610232	60616	NA	NA	NA
## 561	610336	60616	49	42	48
## 562	610172	60609	32	46	55

## 563	609844	60637	13	33	35
## 564	610088	60647	41	56	32
## 565	609977	60637	70	80	66
## 566	610392	60623	51	49	47
##	Average.Student.Attendance Rate.of.Misconducts..per.100.students.				
## 1		96.0			2.0
## 2		95.6			15.7
## 3		95.7			2.3
## 4		95.5			10.4
## 5		93.3			15.6
## 6		97.0			2.3
## 7		96.3			2.1
## 8		94.7			28.1
## 9		92.7			7.1
## 10		96.4			22.5
## 11		96.3			6.3
## 12		92.5			27.4
## 13		95.3			12.5
## 14		92.5			185.5
## 15		94.9			2.9
## 16		90.1			31.2
## 17		94.6			24.8
## 18		95.6			28.5
## 19		80.3			14.0
## 20		96.9			0.6
## 21		96.3			33.4
## 22		94.3			5.3
## 23		91.4			34.3
## 24		95.4			77.5
## 25		94.6			6.2
## 26		97.4			0.7
## 27		91.8			29.0
## 28		97.5			4.9
## 29		94.6			36.5
## 30		90.5			24.9
## 31		95.5			5.4
## 32		94.2			31.2
## 33		92.8			11.8
## 34		90.8			21.6
## 35		94.8			32.2
## 36		96.1			2.3
## 37		87.9			41.6
## 38		92.1			43.5
## 39		95.5			28.5
## 40		96.5			0.7
## 41		76.0			12.4
## 42		90.5			8.6
## 43		70.1			21.5
## 44		92.1			52.1
## 45		60.9			0.0
## 46		95.3			1.3
## 47		83.7			17.2
## 48		91.3			26.9
## 49		95.5			0.3

## 50	93.0	45.5
## 51	88.9	64.1
## 52	94.7	0.3
## 53	80.2	0.8
## 54	94.2	17.9
## 55	90.6	65.8
## 56	96.3	2.6
## 57	92.3	16.2
## 58	95.5	29.4
## 59	94.9	8.9
## 60	96.5	1.9
## 61	81.2	13.8
## 62	95.8	1.8
## 63	91.7	18.8
## 64	94.8	27.8
## 65	91.9	70.5
## 66	95.1	11.1
## 67	86.0	9.7
## 68	94.4	0.0
## 69	95.7	35.6
## 70	95.3	8.5
## 71	93.4	11.5
## 72	92.0	55.6
## 73	94.9	4.7
## 74	92.7	30.7
## 75	79.2	30.4
## 76	95.6	33.8
## 77	89.2	80.6
## 78	92.8	14.1
## 79	93.8	39.5
## 80	93.9	12.3
## 81	93.8	16.9
## 82	96.3	6.0
## 83	93.1	6.3
## 84	92.8	5.2
## 85	90.3	28.2
## 86	68.8	33.3
## 87	95.9	9.3
## 88	74.4	49.8
## 89	95.5	2.4
## 90	91.7	25.3
## 91	92.5	64.2
## 92	91.4	2.9
## 93	95.4	8.9
## 94	94.1	36.9
## 95	95.2	12.5
## 96	92.5	100.5
## 97	95.9	4.7
## 98	95.5	10.5
## 99	91.9	0.0
## 100	91.3	5.4
## 101	94.7	18.1
## 102	92.6	153.9
## 103	91.6	73.8

## 104	94.8	5.7
## 105	86.1	18.6
## 106	96.7	0.0
## 107	90.7	26.3
## 108	95.3	14.8
## 109	97.3	0.0
## 110	93.4	19.6
## 111	95.1	16.6
## 112	94.7	7.0
## 113	92.9	4.4
## 114	92.5	38.4
## 115	94.6	22.8
## 116	95.4	0.7
## 117	94.2	4.4
## 118	62.5	24.4
## 119	97.6	0.0
## 120	96.9	3.4
## 121	96.1	6.9
## 122	89.3	82.0
## 123	92.9	28.0
## 124	95.0	10.3
## 125	93.4	20.3
## 126	95.1	24.9
## 127	95.3	2.4
## 128	88.9	16.0
## 129	93.3	17.4
## 130	95.4	12.2
## 131	78.4	13.0
## 132	93.8	31.0
## 133	84.3	10.3
## 134	91.6	47.5
## 135	89.7	67.2
## 136	95.8	11.6
## 137	95.6	6.8
## 138	95.2	7.6
## 139	95.1	2.9
## 140	94.3	3.0
## 141	90.6	17.3
## 142	95.5	12.2
## 143	84.8	47.1
## 144	96.6	2.8
## 145	88.0	95.7
## 146	89.9	101.2
## 147	95.8	2.1
## 148	92.2	3.0
## 149	95.4	23.4
## 150	92.9	34.0
## 151	96.8	10.0
## 152	95.9	2.7
## 153	96.1	5.5
## 154	93.4	43.4
## 155	96.8	43.8
## 156	80.0	0.0
## 157	96.3	1.2

## 158	93.4	29.0
## 159	90.0	156.6
## 160	95.6	9.4
## 161	93.4	24.5
## 162	93.7	33.6
## 163	95.1	7.1
## 164	93.5	9.1
## 165	90.6	20.7
## 166	91.9	39.6
## 167	91.9	39.0
## 168	92.5	6.5
## 169	91.9	2.1
## 170	95.9	5.6
## 171	96.6	87.3
## 172	97.0	8.7
## 173	95.8	2.1
## 174	96.8	7.2
## 175	96.9	1.7
## 176	79.2	28.0
## 177	94.7	16.8
## 178	72.4	0.0
## 179	94.7	19.9
## 180	87.0	4.0
## 181	72.5	19.5
## 182	95.0	3.1
## 183	92.0	10.0
## 184	92.1	26.0
## 185	96.3	8.1
## 186	93.2	7.8
## 187	96.3	6.0
## 188	94.4	13.8
## 189	71.3	23.4
## 190	92.6	3.3
## 191	91.0	44.0
## 192	93.5	14.6
## 193	93.9	14.4
## 194	91.6	8.9
## 195	90.9	15.6
## 196	95.5	5.6
## 197	80.2	12.7
## 198	93.8	18.2
## 199	93.6	2.0
## 200	91.4	65.5
## 201	95.9	3.3
## 202	95.2	77.0
## 203	91.9	41.5
## 204	87.5	16.4
## 205	95.0	6.1
## 206	91.5	58.8
## 207	89.3	4.3
## 208	87.1	0.1
## 209	95.8	0.8
## 210	95.0	24.4
## 211	96.1	3.1

## 212	93.8	13.7
## 213	96.2	2.6
## 214	96.9	1.2
## 215	93.8	13.4
## 216	96.7	5.8
## 217	96.2	23.4
## 218	95.2	6.0
## 219	96.2	0.0
## 220	95.1	27.9
## 221	91.8	43.1
## 222	95.1	8.4
## 223	72.0	43.4
## 224	95.0	21.3
## 225	72.2	24.0
## 226	95.9	6.0
## 227	92.6	44.4
## 228	91.9	40.0
## 229	70.5	18.5
## 230	92.9	15.4
## 231	93.2	9.5
## 232	92.1	20.9
## 233	92.2	7.5
## 234	96.2	3.0
## 235	92.9	49.0
## 236	95.5	14.8
## 237	95.5	15.9
## 238	91.1	36.1
## 239	92.1	24.6
## 240	90.5	47.9
## 241	95.4	0.7
## 242	87.6	3.7
## 243	94.2	1.7
## 244	96.5	1.2
## 245	96.2	0.0
## 246	96.4	2.1
## 247	95.4	48.8
## 248	94.9	12.4
## 249	95.1	22.1
## 250	91.8	45.4
## 251	95.5	3.2
## 252	91.4	134.8
## 253	93.2	11.2
## 254	97.0	13.9
## 255	92.2	8.0
## 256	97.8	1.3
## 257	94.7	1.4
## 258	96.0	5.0
## 259	88.9	5.0
## 260	95.7	7.4
## 261	94.1	14.3
## 262	93.1	17.2
## 263	91.3	4.9
## 264	92.0	3.9
## 265	95.8	5.6

## 266	95.1	2.9
## 267	95.1	5.6
## 268	93.8	43.3
## 269	95.6	1.9
## 270	95.9	4.6
## 271	95.6	0.2
## 272	95.9	1.4
## 273	95.6	10.8
## 274	98.4	0.3
## 275	93.2	40.8
## 276	95.3	13.1
## 277	92.9	37.1
## 278	83.0	22.0
## 279	94.1	28.2
## 280	94.9	3.8
## 281	78.2	7.5
## 282	93.0	8.7
## 283	92.9	30.8
## 284	94.4	7.5
## 285	95.4	14.9
## 286	97.2	0.3
## 287	96.2	4.5
## 288	95.5	19.2
## 289	95.7	5.4
## 290	74.1	42.9
## 291	81.2	21.6
## 292	95.2	3.2
## 293	92.4	20.1
## 294	95.9	23.4
## 295	96.3	12.8
## 296	91.9	32.9
## 297	96.2	5.9
## 298	94.0	8.8
## 299	93.5	20.8
## 300	94.0	26.0
## 301	95.3	10.2
## 302	92.4	11.1
## 303	95.9	4.3
## 304	95.9	8.0
## 305	95.6	16.4
## 306	95.0	29.0
## 307	95.8	3.6
## 308	96.5	13.7
## 309	96.1	16.8
## 310	95.5	2.2
## 311	96.4	5.3
## 312	95.2	4.4
## 313	95.4	16.1
## 314	94.9	11.0
## 315	95.0	21.6
## 316	94.8	8.2
## 317	95.8	5.1
## 318	96.0	15.6
## 319	90.5	113.5

## 320	96.0	7.7
## 321	83.4	116.9
## 322	96.3	12.0
## 323	74.4	12.9
## 324	88.4	5.9
## 325	87.7	8.5
## 326	90.0	27.5
## 327	96.8	7.0
## 328	95.1	5.6
## 329	96.1	5.7
## 330	92.9	3.9
## 331	91.0	18.8
## 332	96.3	3.2
## 333	94.7	20.8
## 334	97.4	0.3
## 335	91.8	37.7
## 336	84.6	9.2
## 337	95.0	94.9
## 338	96.7	3.2
## 339	95.1	5.1
## 340	94.7	9.2
## 341	95.2	32.6
## 342	96.6	3.7
## 343	92.6	83.4
## 344	95.5	5.3
## 345	95.0	5.0
## 346	93.7	11.4
## 347	89.2	26.7
## 348	95.2	9.8
## 349	95.4	3.9
## 350	94.3	17.8
## 351	92.5	35.7
## 352	95.8	3.2
## 353	66.8	19.7
## 354	95.9	7.3
## 355	94.0	20.5
## 356	95.5	19.7
## 357	96.8	19.4
## 358	85.0	9.1
## 359	91.3	4.5
## 360	96.8	1.3
## 361	97.1	0.0
## 362	96.3	5.3
## 363	93.1	64.6
## 364	93.9	30.9
## 365	95.5	95.1
## 366	95.1	4.3
## 367	94.9	10.8
## 368	95.5	3.1
## 369	95.5	10.3
## 370	95.9	3.7
## 371	94.4	12.7
## 372	93.3	25.8
## 373	90.4	44.3

## 374	90.9	13.2
## 375	95.1	5.9
## 376	94.9	18.1
## 377	91.8	40.2
## 378	93.3	39.4
## 379	94.6	51.8
## 380	79.1	24.4
## 381	91.5	39.1
## 382	91.3	16.6
## 383	95.7	8.1
## 384	91.4	3.4
## 385	84.2	11.1
## 386	93.6	73.9
## 387	80.4	251.6
## 388	96.0	2.9
## 389	93.3	76.6
## 390	89.2	22.4
## 391	92.1	75.9
## 392	95.5	3.8
## 393	94.5	9.8
## 394	91.6	54.2
## 395	92.9	57.7
## 396	95.1	2.4
## 397	94.7	9.2
## 398	78.6	2.1
## 399	80.2	58.3
## 400	96.2	3.1
## 401	75.6	61.8
## 402	96.2	0.2
## 403	81.7	41.3
## 404	93.4	6.0
## 405	93.9	25.9
## 406	95.6	6.6
## 407	88.6	15.3
## 408	95.6	20.1
## 409	95.7	2.8
## 410	74.6	33.4
## 411	89.8	5.3
## 412	93.4	2.2
## 413	95.5	0.3
## 414	94.2	13.7
## 415	96.4	25.8
## 416	92.6	31.5
## 417	87.0	139.8
## 418	96.5	2.3
## 419	97.6	1.4
## 420	66.3	10.2
## 421	92.2	55.7
## 422	92.7	20.0
## 423	95.0	11.4
## 424	92.0	47.1
## 425	94.9	16.6
## 426	89.8	90.7
## 427	95.1	4.3

## 428	93.6	46.9
## 429	76.9	21.5
## 430	92.4	33.3
## 431	73.5	26.4
## 432	92.1	28.9
## 433	96.2	3.7
## 434	95.8	8.2
## 435	96.2	5.7
## 436	96.4	3.0
## 437	93.9	16.0
## 438	95.6	3.5
## 439	92.1	25.5
## 440	92.1	4.3
## 441	96.0	9.4
## 442	94.2	3.7
## 443	96.1	1.7
## 444	97.6	3.9
## 445	94.9	22.3
## 446	94.9	8.1
## 447	86.3	3.7
## 448	95.3	10.3
## 449	95.0	21.8
## 450	94.9	44.2
## 451	94.4	25.4
## 452	57.9	19.9
## 453	93.7	5.6
## 454	81.1	8.7
## 455	96.0	0.4
## 456	89.8	30.1
## 457	95.1	10.1
## 458	96.6	11.3
## 459	90.7	14.0
## 460	95.2	5.0
## 461	92.7	2.1
## 462	94.4	6.9
## 463	69.6	20.6
## 464	94.8	0.9
## 465	81.6	14.7
## 466	93.8	35.6
## 467	90.7	52.8
## 468	96.3	24.3
## 469	92.4	31.0
## 470	94.7	23.4
## 471	95.1	44.6
## 472	95.1	3.7
## 473	95.4	18.5
## 474	93.6	54.2
## 475	96.3	1.5
## 476	95.0	44.5
## 477	93.9	14.2
## 478	96.8	7.4
## 479	90.9	29.5
## 480	93.0	57.8
## 481	96.4	0.0

## 482	95.8	3.7
## 483	89.5	84.7
## 484	95.3	12.7
## 485	93.6	22.4
## 486	85.5	13.1
## 487	92.5	24.1
## 488	95.6	9.7
## 489	96.2	2.8
## 490	92.1	34.8
## 491	95.6	55.6
## 492	87.6	7.6
## 493	96.4	1.9
## 494	96.6	6.5
## 495	96.2	9.2
## 496	95.9	10.5
## 497	87.3	8.2
## 498	95.4	2.7
## 499	90.8	23.9
## 500	82.3	9.7
## 501	92.1	67.1
## 502	96.6	1.9
## 503	91.2	61.8
## 504	94.4	3.4
## 505	95.2	0.3
## 506	94.8	0.0
## 507	95.2	0.5
## 508	96.1	0.4
## 509	89.3	5.8
## 510	94.0	18.1
## 511	95.8	24.0
## 512	88.7	8.1
## 513	NA	0.0
## 514	92.8	10.3
## 515	95.5	2.5
## 516	84.5	25.0
## 517	96.4	7.7
## 518	95.1	2.1
## 519	93.4	0.7
## 520	95.5	35.4
## 521	92.4	75.5
## 522	86.1	4.0
## 523	95.5	4.9
## 524	95.6	15.1
## 525	74.1	16.9
## 526	93.9	20.1
## 527	63.0	22.0
## 528	92.1	90.0
## 529	93.7	16.3
## 530	91.2	7.6
## 531	94.9	6.8
## 532	94.6	1.2
## 533	96.2	1.0
## 534	94.9	29.5
## 535	91.7	28.9

## 536	96.9	1.2
## 537	95.1	4.5
## 538	96.1	6.0
## 539	93.5	37.2
## 540	93.3	48.5
## 541	95.5	2.1
## 542	95.2	6.7
## 543	96.5	3.0
## 544	92.8	59.0
## 545	92.4	17.7
## 546	89.1	9.8
## 547	93.5	73.9
## 548	95.1	6.7
## 549	93.0	22.5
## 550	95.7	14.4
## 551	75.2	5.8
## 552	95.3	26.0
## 553	95.7	6.9
## 554	93.8	4.5
## 555	90.3	27.3
## 556	91.8	5.7
## 557	95.6	5.9
## 558	95.6	3.5
## 559	73.0	63.6
## 560	91.6	17.0
## 561	93.3	14.8
## 562	92.3	230.6
## 563	91.2	27.0
## 564	95.2	3.6
## 565	93.9	12.4
## 566	91.6	4.0
##	Average.Teacher.Attendance	
## 1	96.4	
## 2	95.3	
## 3	94.7	
## 4	95.8	
## 5	96.9	
## 6	96.9	
## 7	96.2	
## 8	95.0	
## 9	96.9	
## 10	95.9	
## 11	95.9	
## 12	95.0	
## 13	97.4	
## 14	96.0	
## 15	94.7	
## 16	94.2	
## 17	95.2	
## 18	95.0	
## 19	95.1	
## 20	96.6	
## 21	95.4	
## 22	96.0	

## 23	95.5
## 24	95.6
## 25	94.4
## 26	96.1
## 27	95.4
## 28	96.5
## 29	95.6
## 30	94.9
## 31	96.0
## 32	95.8
## 33	95.2
## 34	95.1
## 35	95.6
## 36	96.1
## 37	93.4
## 38	95.3
## 39	97.1
## 40	95.0
## 41	0.0
## 42	94.1
## 43	95.2
## 44	96.4
## 45	95.5
## 46	96.8
## 47	95.8
## 48	93.9
## 49	96.6
## 50	96.3
## 51	93.9
## 52	94.8
## 53	94.8
## 54	95.4
## 55	95.0
## 56	95.9
## 57	95.6
## 58	96.9
## 59	94.9
## 60	96.9
## 61	96.0
## 62	96.3
## 63	94.3
## 64	95.6
## 65	94.7
## 66	96.1
## 67	94.4
## 68	94.7
## 69	95.6
## 70	95.2
## 71	93.4
## 72	94.4
## 73	96.0
## 74	94.7
## 75	96.2
## 76	96.2

## 77	93.6
## 78	95.5
## 79	97.1
## 80	96.9
## 81	94.6
## 82	96.1
## 83	96.1
## 84	95.2
## 85	95.6
## 86	94.6
## 87	95.2
## 88	95.4
## 89	96.9
## 90	96.4
## 91	96.2
## 92	96.6
## 93	97.1
## 94	96.3
## 95	93.5
## 96	96.7
## 97	95.9
## 98	95.4
## 99	94.3
## 100	96.7
## 101	97.2
## 102	96.2
## 103	95.9
## 104	97.2
## 105	95.2
## 106	94.5
## 107	95.5
## 108	95.4
## 109	96.5
## 110	94.8
## 111	94.3
## 112	96.9
## 113	96.3
## 114	95.6
## 115	96.4
## 116	95.8
## 117	95.4
## 118	93.5
## 119	97.2
## 120	96.6
## 121	96.6
## 122	95.5
## 123	95.9
## 124	94.7
## 125	94.7
## 126	95.0
## 127	97.7
## 128	94.8
## 129	97.3
## 130	94.9

## 131	95.2
## 132	96.7
## 133	94.8
## 134	96.0
## 135	97.0
## 136	95.2
## 137	96.2
## 138	97.0
## 139	96.7
## 140	95.4
## 141	95.7
## 142	97.7
## 143	95.4
## 144	96.8
## 145	93.3
## 146	95.4
## 147	97.2
## 148	0.0
## 149	96.0
## 150	95.7
## 151	96.7
## 152	96.2
## 153	97.4
## 154	93.3
## 155	0.0
## 156	95.6
## 157	97.2
## 158	96.1
## 159	95.2
## 160	95.8
## 161	95.9
## 162	94.7
## 163	97.0
## 164	95.1
## 165	95.3
## 166	94.0
## 167	94.9
## 168	95.9
## 169	96.3
## 170	95.3
## 171	96.0
## 172	96.7
## 173	97.0
## 174	96.6
## 175	96.0
## 176	94.7
## 177	95.4
## 178	95.7
## 179	94.7
## 180	95.6
## 181	94.0
## 182	97.0
## 183	94.8
## 184	96.0

## 185	96.3
## 186	96.0
## 187	95.8
## 188	95.1
## 189	95.2
## 190	94.9
## 191	94.8
## 192	96.2
## 193	96.4
## 194	96.4
## 195	94.7
## 196	95.9
## 197	95.1
## 198	98.1
## 199	96.8
## 200	95.1
## 201	95.6
## 202	96.1
## 203	95.2
## 204	95.1
## 205	96.3
## 206	96.5
## 207	96.4
## 208	95.2
## 209	95.7
## 210	94.9
## 211	96.2
## 212	94.7
## 213	96.6
## 214	96.5
## 215	95.9
## 216	95.8
## 217	94.6
## 218	96.1
## 219	97.2
## 220	95.8
## 221	95.6
## 222	96.9
## 223	95.2
## 224	96.2
## 225	94.3
## 226	96.0
## 227	94.5
## 228	96.4
## 229	94.2
## 230	95.9
## 231	92.8
## 232	95.2
## 233	96.0
## 234	96.2
## 235	96.3
## 236	96.2
## 237	95.0
## 238	94.3

## 239	94.6
## 240	93.8
## 241	96.6
## 242	95.5
## 243	95.6
## 244	96.3
## 245	94.3
## 246	96.0
## 247	96.5
## 248	97.7
## 249	95.8
## 250	95.9
## 251	96.5
## 252	94.7
## 253	95.7
## 254	97.0
## 255	95.5
## 256	96.9
## 257	97.5
## 258	96.8
## 259	94.6
## 260	96.3
## 261	96.3
## 262	95.3
## 263	93.5
## 264	95.5
## 265	97.0
## 266	95.3
## 267	96.1
## 268	95.9
## 269	96.3
## 270	96.5
## 271	96.1
## 272	96.5
## 273	96.7
## 274	96.2
## 275	96.3
## 276	95.6
## 277	91.7
## 278	94.7
## 279	97.3
## 280	96.5
## 281	95.9
## 282	96.0
## 283	97.1
## 284	95.7
## 285	95.3
## 286	96.2
## 287	96.7
## 288	96.7
## 289	95.5
## 290	95.8
## 291	94.4
## 292	94.6

## 293	93.3
## 294	95.4
## 295	94.8
## 296	95.5
## 297	97.4
## 298	94.8
## 299	95.4
## 300	94.0
## 301	96.5
## 302	97.0
## 303	96.9
## 304	95.3
## 305	95.1
## 306	96.8
## 307	97.0
## 308	97.7
## 309	96.2
## 310	95.1
## 311	96.3
## 312	95.8
## 313	95.4
## 314	95.3
## 315	95.3
## 316	96.0
## 317	96.4
## 318	96.9
## 319	95.5
## 320	97.1
## 321	94.4
## 322	95.4
## 323	94.5
## 324	95.3
## 325	96.2
## 326	95.5
## 327	97.6
## 328	94.8
## 329	97.0
## 330	97.5
## 331	94.8
## 332	98.5
## 333	95.1
## 334	97.8
## 335	95.3
## 336	96.0
## 337	96.6
## 338	96.7
## 339	95.6
## 340	97.7
## 341	96.8
## 342	97.1
## 343	97.9
## 344	95.9
## 345	95.8
## 346	94.7

## 347	94.6
## 348	95.5
## 349	95.7
## 350	95.2
## 351	94.6
## 352	96.9
## 353	95.4
## 354	96.6
## 355	96.0
## 356	0.0
## 357	96.9
## 358	95.0
## 359	95.3
## 360	97.0
## 361	94.9
## 362	97.8
## 363	95.3
## 364	96.7
## 365	96.8
## 366	0.0
## 367	94.2
## 368	96.1
## 369	96.7
## 370	97.0
## 371	97.1
## 372	97.6
## 373	0.0
## 374	95.7
## 375	96.3
## 376	96.1
## 377	93.9
## 378	94.6
## 379	95.8
## 380	95.4
## 381	95.0
## 382	95.0
## 383	96.2
## 384	95.7
## 385	94.6
## 386	97.1
## 387	93.5
## 388	96.1
## 389	94.1
## 390	96.7
## 391	96.4
## 392	96.2
## 393	96.2
## 394	95.8
## 395	95.6
## 396	95.9
## 397	96.3
## 398	94.3
## 399	94.8
## 400	95.6

## 401	94.7
## 402	96.7
## 403	96.4
## 404	97.0
## 405	95.0
## 406	96.6
## 407	95.6
## 408	96.0
## 409	96.8
## 410	94.2
## 411	95.6
## 412	95.1
## 413	95.6
## 414	0.0
## 415	95.8
## 416	94.8
## 417	92.4
## 418	95.5
## 419	96.4
## 420	95.0
## 421	95.3
## 422	95.6
## 423	95.2
## 424	95.9
## 425	96.3
## 426	94.9
## 427	95.9
## 428	95.4
## 429	96.0
## 430	94.6
## 431	94.7
## 432	96.4
## 433	97.6
## 434	95.7
## 435	96.3
## 436	95.1
## 437	95.8
## 438	95.9
## 439	95.8
## 440	97.4
## 441	96.7
## 442	95.9
## 443	96.2
## 444	97.7
## 445	95.5
## 446	95.7
## 447	94.3
## 448	96.8
## 449	95.3
## 450	96.0
## 451	96.9
## 452	93.9
## 453	96.2
## 454	95.9

## 455	93.7
## 456	94.8
## 457	96.8
## 458	97.1
## 459	95.3
## 460	95.6
## 461	95.9
## 462	94.8
## 463	94.2
## 464	96.2
## 465	95.8
## 466	96.3
## 467	96.5
## 468	96.9
## 469	95.0
## 470	96.0
## 471	95.8
## 472	96.6
## 473	95.8
## 474	96.0
## 475	95.4
## 476	94.6
## 477	95.7
## 478	96.4
## 479	93.1
## 480	94.5
## 481	97.8
## 482	96.5
## 483	95.4
## 484	97.2
## 485	96.3
## 486	95.2
## 487	96.0
## 488	95.7
## 489	95.4
## 490	95.2
## 491	96.0
## 492	96.5
## 493	96.0
## 494	95.7
## 495	95.5
## 496	96.6
## 497	96.5
## 498	94.7
## 499	97.0
## 500	96.1
## 501	96.3
## 502	96.3
## 503	95.6
## 504	97.3
## 505	96.7
## 506	95.4
## 507	95.2
## 508	95.1

## 509	95.3
## 510	96.0
## 511	95.2
## 512	95.9
## 513	95.6
## 514	96.2
## 515	96.4
## 516	96.5
## 517	96.4
## 518	96.3
## 519	96.1
## 520	95.0
## 521	93.2
## 522	94.1
## 523	97.2
## 524	95.9
## 525	96.2
## 526	95.7
## 527	96.1
## 528	94.1
## 529	96.7
## 530	93.8
## 531	0.0
## 532	94.9
## 533	95.7
## 534	96.4
## 535	95.1
## 536	95.0
## 537	97.0
## 538	95.8
## 539	94.8
## 540	94.4
## 541	95.9
## 542	96.9
## 543	96.9
## 544	94.7
## 545	95.1
## 546	96.1
## 547	97.6
## 548	94.9
## 549	94.3
## 550	95.7
## 551	94.3
## 552	95.2
## 553	96.1
## 554	95.3
## 555	94.0
## 556	95.2
## 557	95.9
## 558	95.8
## 559	94.7
## 560	95.9
## 561	92.4
## 562	95.0

## 563	95.9	
## 564	96.4	
## 565	94.3	
## 566	96.0	
##	Individualized.Education.Program.Compliance.Rate	ISAT.Exceeding.Math..
## 1	95.8	69.7
## 2	100.0	16.8
## 3	98.3	18.3
## 4	100.0	11.1
## 5	100.0	NA
## 6	100.0	34.5
## 7	99.4	NA
## 8	100.0	18.0
## 9	100.0	NA
## 10	100.0	19.9
## 11	99.3	64.0
## 12	92.1	20.8
## 13	97.4	13.8
## 14	100.0	8.6
## 15	94.7	11.6
## 16	96.4	5.0
## 17	100.0	9.7
## 18	100.0	18.0
## 19	100.0	NA
## 20	100.0	12.3
## 21	100.0	27.5
## 22	100.0	14.5
## 23	100.0	7.7
## 24	100.0	11.1
## 25	100.0	21.4
## 26	100.0	70.4
## 27	100.0	12.6
## 28	100.0	92.8
## 29	98.5	37.2
## 30	100.0	8.2
## 31	100.0	24.8
## 32	100.0	7.5
## 33	98.9	7.6
## 34	100.0	4.8
## 35	100.0	22.0
## 36	99.1	47.4
## 37	100.0	9.2
## 38	95.6	13.8
## 39	100.0	15.1
## 40	97.9	54.2
## 41	98.2	NA
## 42	100.0	6.1
## 43	98.6	NA
## 44	97.7	7.9
## 45	100.0	NA
## 46	98.9	11.0
## 47	99.5	NA
## 48	100.0	7.9
## 49	100.0	17.4

## 50	98.5	24.0
## 51	97.9	2.5
## 52	100.0	10.8
## 53	100.0	NA
## 54	98.5	27.5
## 55	92.9	3.4
## 56	100.0	18.6
## 57	97.6	NA
## 58	96.0	36.5
## 59	100.0	15.5
## 60	100.0	13.9
## 61	98.9	NA
## 62	100.0	24.8
## 63	96.9	7.9
## 64	100.0	11.8
## 65	98.4	4.3
## 66	100.0	19.8
## 67	99.4	NA
## 68	100.0	12.2
## 69	99.5	23.1
## 70	92.0	10.1
## 71	100.0	17.4
## 72	100.0	5.0
## 73	100.0	16.7
## 74	100.0	10.9
## 75	99.6	NA
## 76	100.0	16.0
## 77	100.0	4.8
## 78	100.0	12.9
## 79	100.0	9.4
## 80	100.0	13.1
## 81	100.0	9.8
## 82	100.0	41.9
## 83	97.1	NA
## 84	96.8	NA
## 85	100.0	NA
## 86	99.1	NA
## 87	97.0	50.6
## 88	100.0	NA
## 89	92.6	42.0
## 90	100.0	8.1
## 91	100.0	12.1
## 92	98.7	NA
## 93	100.0	17.1
## 94	100.0	9.7
## 95	100.0	7.6
## 96	100.0	3.9
## 97	100.0	25.2
## 98	97.6	22.0
## 99	100.0	NA
## 100	100.0	23.7
## 101	100.0	13.6
## 102	98.4	10.3
## 103	96.2	5.5

## 104	100.0	25.9
## 105	99.6	NA
## 106	100.0	NA
## 107	100.0	3.3
## 108	100.0	33.5
## 109	100.0	57.8
## 110	97.3	10.0
## 111	100.0	12.4
## 112	100.0	14.6
## 113	100.0	NA
## 114	98.1	8.3
## 115	100.0	24.7
## 116	100.0	22.0
## 117	100.0	11.0
## 118	100.0	NA
## 119	100.0	78.8
## 120	100.0	60.2
## 121	98.6	27.7
## 122	96.7	7.9
## 123	98.3	5.6
## 124	100.0	26.4
## 125	94.7	6.8
## 126	98.7	16.7
## 127	93.8	13.6
## 128	98.7	8.2
## 129	98.9	16.1
## 130	96.6	16.4
## 131	100.0	NA
## 132	100.0	7.4
## 133	99.6	NA
## 134	100.0	9.8
## 135	100.0	4.5
## 136	97.6	15.0
## 137	96.0	37.2
## 138	100.0	9.1
## 139	98.9	19.6
## 140	100.0	9.1
## 141	100.0	NA
## 142	100.0	30.1
## 143	88.0	NA
## 144	100.0	21.6
## 145	90.5	3.2
## 146	100.0	0.6
## 147	100.0	17.5
## 148	100.0	NA
## 149	98.5	31.4
## 150	100.0	8.9
## 151	100.0	9.8
## 152	93.8	32.8
## 153	100.0	11.5
## 154	98.6	4.1
## 155	100.0	8.9
## 156	100.0	NA
## 157	96.9	23.2

## 158	100.0	12.4
## 159	100.0	0.0
## 160	99.4	11.3
## 161	100.0	25.2
## 162	97.1	8.0
## 163	100.0	15.1
## 164	100.0	5.7
## 165	100.0	4.6
## 166	100.0	11.3
## 167	98.6	8.4
## 168	100.0	13.7
## 169	98.8	7.6
## 170	100.0	55.1
## 171	100.0	24.0
## 172	100.0	15.5
## 173	100.0	10.6
## 174	100.0	37.6
## 175	100.0	57.6
## 176	100.0	NA
## 177	100.0	12.2
## 178	100.0	NA
## 179	100.0	23.9
## 180	99.2	NA
## 181	99.1	NA
## 182	100.0	26.5
## 183	96.8	7.9
## 184	94.5	4.2
## 185	99.4	30.4
## 186	98.6	22.7
## 187	98.8	25.4
## 188	98.9	24.9
## 189	98.5	NA
## 190	100.0	46.2
## 191	100.0	4.6
## 192	100.0	14.8
## 193	100.0	22.0
## 194	100.0	NA
## 195	100.0	9.4
## 196	99.0	30.4
## 197	99.5	NA
## 198	97.9	10.1
## 199	100.0	NA
## 200	100.0	10.0
## 201	100.0	8.0
## 202	100.0	11.9
## 203	100.0	11.1
## 204	95.6	NA
## 205	100.0	23.4
## 206	100.0	4.0
## 207	100.0	NA
## 208	100.0	NA
## 209	99.0	52.4
## 210	100.0	14.4
## 211	100.0	16.0

## 212	98.7	3.1
## 213	100.0	19.6
## 214	100.0	75.1
## 215	100.0	25.6
## 216	100.0	25.5
## 217	100.0	15.2
## 218	100.0	17.1
## 219	97.0	23.5
## 220	100.0	7.1
## 221	98.0	6.9
## 222	94.8	27.7
## 223	100.0	NA
## 224	98.6	27.3
## 225	99.1	NA
## 226	100.0	26.9
## 227	100.0	3.4
## 228	98.2	9.4
## 229	100.0	NA
## 230	100.0	NA
## 231	100.0	15.3
## 232	100.0	2.0
## 233	85.4	NA
## 234	100.0	27.6
## 235	100.0	7.7
## 236	100.0	11.6
## 237	95.2	10.7
## 238	94.4	4.8
## 239	100.0	3.4
## 240	100.0	6.5
## 241	100.0	14.3
## 242	100.0	NA
## 243	100.0	30.7
## 244	100.0	15.4
## 245	100.0	73.3
## 246	88.4	61.3
## 247	100.0	12.6
## 248	100.0	14.1
## 249	98.1	15.5
## 250	100.0	8.7
## 251	100.0	21.8
## 252	97.7	2.2
## 253	100.0	10.2
## 254	99.6	18.3
## 255	100.0	5.4
## 256	100.0	51.1
## 257	100.0	8.9
## 258	100.0	19.3
## 259	100.0	11.4
## 260	98.4	49.1
## 261	98.6	8.3
## 262	100.0	20.2
## 263	100.0	50.0
## 264	100.0	25.7
## 265	99.1	24.9

## 266	97.0	17.4
## 267	97.7	15.2
## 268	100.0	7.7
## 269	100.0	22.0
## 270	98.1	32.8
## 271	100.0	25.9
## 272	100.0	45.3
## 273	96.2	43.8
## 274	96.9	45.0
## 275	86.9	12.9
## 276	100.0	8.9
## 277	91.4	4.0
## 278	99.3	NA
## 279	100.0	9.1
## 280	100.0	6.3
## 281	100.0	NA
## 282	97.8	13.8
## 283	100.0	11.9
## 284	100.0	20.1
## 285	99.1	32.6
## 286	100.0	17.7
## 287	98.6	45.3
## 288	100.0	54.9
## 289	99.1	18.9
## 290	100.0	NA
## 291	95.7	17.8
## 292	100.0	24.2
## 293	100.0	6.3
## 294	100.0	14.6
## 295	99.2	25.3
## 296	100.0	16.4
## 297	99.0	17.9
## 298	98.1	19.5
## 299	100.0	10.7
## 300	100.0	6.4
## 301	97.3	34.4
## 302	100.0	5.4
## 303	100.0	29.1
## 304	100.0	14.8
## 305	100.0	16.9
## 306	100.0	16.7
## 307	99.0	NA
## 308	96.7	18.1
## 309	100.0	14.3
## 310	100.0	21.1
## 311	93.8	7.8
## 312	100.0	13.3
## 313	100.0	9.1
## 314	100.0	18.3
## 315	100.0	13.7
## 316	100.0	22.3
## 317	100.0	16.1
## 318	100.0	22.8
## 319	100.0	5.9

## 320	100.0	20.6
## 321	100.0	0.0
## 322	91.8	24.2
## 323	99.5	NA
## 324	99.4	69.5
## 325	100.0	NA
## 326	100.0	8.2
## 327	100.0	55.5
## 328	100.0	33.8
## 329	99.5	21.0
## 330	100.0	14.2
## 331	98.0	3.3
## 332	100.0	26.3
## 333	100.0	13.3
## 334	100.0	88.0
## 335	98.6	4.0
## 336	100.0	NA
## 337	100.0	9.4
## 338	93.9	11.3
## 339	100.0	11.6
## 340	100.0	18.4
## 341	98.1	27.5
## 342	93.2	52.6
## 343	100.0	1.7
## 344	97.9	38.2
## 345	97.3	15.9
## 346	98.7	16.5
## 347	100.0	7.8
## 348	100.0	20.6
## 349	98.7	26.6
## 350	97.7	14.2
## 351	96.6	7.6
## 352	100.0	25.6
## 353	98.4	NA
## 354	100.0	14.8
## 355	100.0	22.4
## 356	98.7	13.0
## 357	98.9	24.3
## 358	100.0	NA
## 359	100.0	NA
## 360	95.9	47.2
## 361	96.7	77.2
## 362	98.3	32.3
## 363	99.3	6.8
## 364	98.0	8.7
## 365	100.0	23.1
## 366	97.7	11.2
## 367	100.0	21.2
## 368	100.0	21.0
## 369	100.0	35.5
## 370	99.3	29.5
## 371	100.0	29.4
## 372	98.0	6.1
## 373	72.7	NA

## 374	97.9	3.5
## 375	100.0	17.8
## 376	100.0	17.3
## 377	100.0	3.6
## 378	100.0	17.9
## 379	94.0	23.1
## 380	100.0	1.7
## 381	95.7	6.1
## 382	100.0	8.8
## 383	100.0	37.5
## 384	100.0	21.6
## 385	99.5	52.0
## 386	100.0	16.3
## 387	100.0	0.0
## 388	98.5	39.5
## 389	100.0	14.6
## 390	100.0	NA
## 391	100.0	6.3
## 392	98.6	23.2
## 393	96.5	19.3
## 394	93.5	4.5
## 395	100.0	11.7
## 396	94.0	16.2
## 397	100.0	16.5
## 398	100.0	NA
## 399	98.1	1.3
## 400	99.0	23.2
## 401	100.0	NA
## 402	99.1	21.7
## 403	100.0	NA
## 404	100.0	22.6
## 405	100.0	14.7
## 406	98.4	27.8
## 407	100.0	NA
## 408	100.0	19.6
## 409	98.4	NA
## 410	98.6	NA
## 411	100.0	NA
## 412	98.9	11.3
## 413	100.0	50.5
## 414	100.0	42.6
## 415	100.0	48.8
## 416	100.0	7.0
## 417	97.9	5.0
## 418	98.4	75.1
## 419	100.0	30.2
## 420	99.6	NA
## 421	100.0	8.2
## 422	94.1	4.8
## 423	100.0	18.1
## 424	97.2	9.6
## 425	100.0	6.2
## 426	100.0	5.6
## 427	100.0	12.5

## 428	98.5	20.6
## 429	98.0	NA
## 430	89.3	3.5
## 431	97.6	NA
## 432	100.0	5.0
## 433	100.0	17.5
## 434	99.5	24.0
## 435	100.0	9.6
## 436	100.0	34.3
## 437	98.0	10.1
## 438	100.0	35.0
## 439	97.9	4.9
## 440	100.0	NA
## 441	100.0	18.0
## 442	100.0	22.9
## 443	100.0	24.2
## 444	100.0	19.4
## 445	100.0	18.2
## 446	100.0	18.9
## 447	100.0	NA
## 448	96.1	17.6
## 449	96.1	15.6
## 450	98.4	14.4
## 451	100.0	5.1
## 452	99.1	NA
## 453	98.6	15.2
## 454	99.2	NA
## 455	100.0	20.1
## 456	100.0	12.9
## 457	100.0	9.6
## 458	99.1	45.1
## 459	100.0	2.7
## 460	100.0	22.1
## 461	100.0	61.7
## 462	100.0	24.4
## 463	99.6	NA
## 464	100.0	9.3
## 465	94.4	NA
## 466	98.1	13.4
## 467	100.0	9.8
## 468	100.0	8.0
## 469	94.5	4.2
## 470	97.8	20.9
## 471	100.0	20.5
## 472	98.6	29.5
## 473	98.6	17.1
## 474	100.0	13.5
## 475	92.9	49.1
## 476	97.7	9.8
## 477	98.9	10.4
## 478	100.0	18.7
## 479	100.0	4.2
## 480	100.0	5.9
## 481	100.0	100.0

## 482	98.9	15.9
## 483	100.0	3.6
## 484	100.0	54.2
## 485	100.0	20.8
## 486	100.0	NA
## 487	100.0	10.7
## 488	100.0	NA
## 489	100.0	93.6
## 490	100.0	7.6
## 491	99.3	28.6
## 492	97.9	NA
## 493	100.0	45.7
## 494	100.0	40.7
## 495	100.0	27.3
## 496	100.0	13.4
## 497	100.0	NA
## 498	96.4	8.4
## 499	96.0	4.6
## 500	100.0	NA
## 501	100.0	17.1
## 502	100.0	79.0
## 503	100.0	8.5
## 504	100.0	2.1
## 505	97.5	34.0
## 506	100.0	23.4
## 507	100.0	19.1
## 508	100.0	27.2
## 509	99.7	NA
## 510	97.2	18.6
## 511	100.0	24.2
## 512	98.3	23.3
## 513	100.0	NA
## 514	100.0	30.0
## 515	100.0	22.0
## 516	100.0	NA
## 517	100.0	46.0
## 518	100.0	46.2
## 519	100.0	NA
## 520	100.0	9.9
## 521	100.0	28.6
## 522	100.0	13.3
## 523	96.6	36.5
## 524	89.0	22.6
## 525	96.7	NA
## 526	100.0	25.8
## 527	100.0	NA
## 528	95.2	9.4
## 529	100.0	10.8
## 530	100.0	5.7
## 531	100.0	16.9
## 532	100.0	99.5
## 533	92.3	52.9
## 534	100.0	20.3
## 535	100.0	9.2

## 536		100.0	28.4
## 537		100.0	40.8
## 538		100.0	30.8
## 539		98.2	5.8
## 540		100.0	7.9
## 541		100.0	31.5
## 542		100.0	19.2
## 543		99.3	19.3
## 544		100.0	10.2
## 545		100.0	10.6
## 546		99.7	80.2
## 547		95.0	16.0
## 548		98.8	31.8
## 549		96.4	10.6
## 550		100.0	12.2
## 551		99.6	NA
## 552		100.0	15.5
## 553		98.8	35.1
## 554		100.0	NA
## 555		97.8	2.9
## 556		92.9	8.1
## 557		99.4	26.1
## 558		100.0	11.2
## 559		100.0	NA
## 560		100.0	24.3
## 561		96.8	7.8
## 562		100.0	8.1
## 563		100.0	6.8
## 564		100.0	12.0
## 565		100.0	17.5
## 566		100.0	NA
##	ISAT.Exceeding.Reading..	ISAT.Value.Add.Math	ISAT.Value.Add.Read
## 1	64.4	0.2	0.9
## 2	16.5	0.7	1.4
## 3	15.5	-0.9	-1.0
## 4	9.6	0.9	2.4
## 5	NA	NA	NA
## 6	15.6	0.2	0.3
## 7	NA	NA	NA
## 8	12.8	-1.8	0.1
## 9	NA	NA	NA
## 10	14.2	0.3	-0.4
## 11	57.9	0.0	0.3
## 12	11.1	1.7	-0.5
## 13	21.3	0.6	0.6
## 14	5.7	-0.4	-1.2
## 15	1.9	0.5	-1.5
## 16	5.6	0.5	-0.1
## 17	7.1	-0.3	0.7
## 18	15.7	1.9	1.9
## 19	NA	NA	NA
## 20	11.4	-1.5	-1.3
## 21	26.4	0.1	1.0
## 22	3.0	-1.9	-1.5

## 23	7.8	-0.4	-0.1
## 24	6.2	0.7	0.1
## 25	20.4	-1.2	0.1
## 26	62.7	0.6	0.8
## 27	7.5	0.5	0.2
## 28	92.3	1.6	2.3
## 29	34.5	-0.2	0.3
## 30	4.3	1.2	0.7
## 31	14.4	0.0	-1.6
## 32	4.2	-1.1	-2.5
## 33	5.4	-1.1	-0.7
## 34	3.9	-0.4	-2.8
## 35	15.7	-0.3	0.7
## 36	34.2	0.3	0.1
## 37	2.8	1.1	-0.9
## 38	4.5	0.3	-1.3
## 39	9.5	0.4	-0.6
## 40	53.3	1.3	2.1
## 41	NA	NA	NA
## 42	5.2	0.2	-0.4
## 43	NA	NA	NA
## 44	5.1	1.1	1.2
## 45	NA	NA	NA
## 46	11.0	0.2	1.0
## 47	NA	NA	NA
## 48	1.5	0.7	0.9
## 49	9.6	0.1	-0.1
## 50	7.5	1.4	0.2
## 51	2.0	-0.1	-1.1
## 52	19.6	0.0	1.6
## 53	NA	NA	NA
## 54	21.9	0.4	0.0
## 55	1.6	-0.2	-1.4
## 56	11.4	0.8	0.2
## 57	NA	NA	NA
## 58	22.0	1.3	0.6
## 59	14.3	0.0	-0.4
## 60	10.3	-0.7	1.5
## 61	NA	NA	NA
## 62	15.1	1.2	0.9
## 63	5.6	-0.2	0.9
## 64	9.1	-0.6	0.6
## 65	2.4	-0.7	-2.4
## 66	8.4	2.0	0.0
## 67	NA	NA	NA
## 68	4.7	0.5	-1.0
## 69	13.6	0.5	0.3
## 70	5.8	0.5	0.2
## 71	15.9	1.8	0.0
## 72	6.1	-1.2	-1.1
## 73	11.5	-0.8	0.0
## 74	6.8	0.9	-0.1
## 75	NA	NA	NA
## 76	6.9	-0.2	-0.8

## 77	2.6	-0.1	-0.6
## 78	8.8	1.5	-0.4
## 79	6.8	2.8	-0.5
## 80	9.7	-1.0	0.1
## 81	5.6	1.1	-0.6
## 82	30.3	-0.1	1.8
## 83	NA	NA	NA
## 84	NA	NA	NA
## 85	NA	NA	NA
## 86	NA	NA	NA
## 87	40.2	0.5	1.4
## 88	NA	NA	NA
## 89	30.5	1.1	1.6
## 90	5.7	-0.5	-0.3
## 91	8.1	0.3	0.7
## 92	NA	NA	NA
## 93	13.8	0.8	1.5
## 94	8.1	-1.8	-1.7
## 95	10.0	-0.3	-2.0
## 96	8.8	-0.3	1.0
## 97	10.3	-0.2	0.5
## 98	17.6	1.1	1.9
## 99	NA	NA	NA
## 100	8.5	-0.9	-1.8
## 101	8.2	0.1	0.3
## 102	5.9	-1.0	-1.4
## 103	1.5	1.0	-0.6
## 104	21.0	2.0	0.7
## 105	NA	NA	NA
## 106	NA	NA	NA
## 107	0.5	0.4	-1.2
## 108	21.8	0.6	-0.5
## 109	52.0	0.6	2.1
## 110	5.7	-0.8	-1.2
## 111	9.9	-0.5	-0.6
## 112	8.6	-0.7	-0.7
## 113	NA	NA	NA
## 114	5.8	-0.2	-0.7
## 115	17.2	2.8	1.8
## 116	16.3	0.8	1.5
## 117	10.4	-1.5	0.4
## 118	NA	NA	NA
## 119	79.6	1.7	-0.2
## 120	56.8	0.0	0.5
## 121	32.6	-0.6	-0.4
## 122	4.3	-1.4	-1.9
## 123	7.6	-0.2	0.0
## 124	21.3	0.3	0.3
## 125	10.9	1.0	1.7
## 126	5.7	1.0	-0.1
## 127	13.6	0.6	1.3
## 128	1.3	2.0	0.2
## 129	8.0	1.9	0.4
## 130	11.7	0.0	0.8

## 131	NA	NA	NA
## 132	7.4	1.9	1.2
## 133	NA	NA	NA
## 134	8.6	-0.2	-0.3
## 135	3.2	-0.1	-1.0
## 136	9.4	-0.1	0.7
## 137	35.7	0.0	-0.4
## 138	5.9	-1.1	-0.8
## 139	17.6	0.4	1.0
## 140	8.0	0.1	0.8
## 141	NA	NA	NA
## 142	27.3	-0.5	-0.3
## 143	NA	NA	NA
## 144	13.7	-0.3	1.2
## 145	3.5	-0.4	-1.6
## 146	2.6	-1.0	-1.0
## 147	13.0	0.7	0.3
## 148	NA	NA	NA
## 149	24.5	-0.8	-0.1
## 150	7.7	0.9	-0.4
## 151	7.9	-0.2	0.1
## 152	25.5	-0.5	-0.1
## 153	9.3	-0.3	-0.5
## 154	4.3	0.1	-0.7
## 155	7.5	-1.0	-0.1
## 156	NA	NA	NA
## 157	13.8	0.7	1.1
## 158	7.8	-0.7	-1.7
## 159	0.7	-1.6	-0.2
## 160	8.2	-0.8	-1.2
## 161	14.1	1.4	0.1
## 162	5.7	-1.1	-2.1
## 163	4.9	-1.1	-0.7
## 164	5.7	-0.6	0.2
## 165	3.1	-0.3	-0.4
## 166	5.9	0.9	1.5
## 167	6.5	0.4	0.0
## 168	8.4	0.7	0.1
## 169	5.6	0.2	0.2
## 170	50.2	0.8	1.4
## 171	18.1	0.6	1.7
## 172	9.8	0.2	0.5
## 173	10.2	-0.2	-1.1
## 174	25.4	1.6	1.9
## 175	47.6	3.1	4.9
## 176	NA	NA	NA
## 177	5.8	-2.1	-1.1
## 178	NA	NA	NA
## 179	15.2	0.3	0.0
## 180	NA	NA	NA
## 181	NA	NA	NA
## 182	22.3	-1.0	-0.8
## 183	3.2	-0.7	0.3
## 184	6.3	-0.3	0.4

## 185	19.5	0.7	-0.2
## 186	21.3	0.0	0.9
## 187	16.2	-0.8	1.1
## 188	24.5	-0.6	-0.8
## 189	NA	NA	NA
## 190	20.0	NA	NA
## 191	4.7	-1.1	-1.2
## 192	17.8	0.7	0.7
## 193	15.3	1.2	0.7
## 194	NA	NA	NA
## 195	8.0	-0.8	-0.6
## 196	24.7	0.4	0.8
## 197	NA	NA	NA
## 198	3.8	0.9	0.9
## 199	NA	NA	NA
## 200	3.5	-0.7	-2.6
## 201	6.6	-0.4	-0.6
## 202	9.7	0.5	1.1
## 203	6.5	0.0	-0.3
## 204	NA	NA	NA
## 205	15.8	-0.3	-0.5
## 206	7.3	-1.6	-1.3
## 207	NA	NA	NA
## 208	NA	NA	NA
## 209	42.8	0.6	-0.2
## 210	11.0	-0.8	-0.5
## 211	13.1	-0.2	0.1
## 212	2.5	-0.2	-0.8
## 213	17.3	-0.5	0.0
## 214	66.0	1.8	2.2
## 215	19.2	0.5	0.1
## 216	20.5	-1.9	-1.4
## 217	10.2	-0.3	0.3
## 218	12.3	-0.3	-0.2
## 219	10.5	-0.8	-0.3
## 220	6.0	0.6	-0.5
## 221	4.6	1.9	0.3
## 222	26.7	-0.7	0.5
## 223	NA	NA	NA
## 224	21.4	-0.8	-0.5
## 225	NA	NA	NA
## 226	16.3	0.2	-0.2
## 227	3.4	-0.7	0.1
## 228	5.6	-0.4	-0.8
## 229	NA	NA	NA
## 230	NA	NA	NA
## 231	10.1	0.3	-0.3
## 232	2.0	0.2	-0.8
## 233	NA	NA	NA
## 234	21.3	1.1	1.9
## 235	7.2	-1.5	-0.8
## 236	9.2	-1.8	-0.8
## 237	12.8	-0.4	0.4
## 238	4.3	0.2	0.2

## 239	6.7	-0.4	0.7
## 240	6.4	NA	NA
## 241	5.1	0.5	0.5
## 242	NA	NA	NA
## 243	25.6	1.0	0.3
## 244	15.9	-0.8	-0.6
## 245	74.1	-1.1	-0.7
## 246	50.1	0.9	-0.4
## 247	6.8	-0.1	0.5
## 248	5.1	0.7	-0.9
## 249	11.6	-0.6	-0.4
## 250	3.6	-0.4	-1.2
## 251	11.1	0.7	-0.2
## 252	1.1	-1.4	-0.2
## 253	8.2	0.2	0.6
## 254	12.7	1.1	1.5
## 255	5.4	-1.3	-0.6
## 256	23.8	-0.1	-1.0
## 257	5.0	-0.4	-1.0
## 258	15.9	0.5	-0.4
## 259	7.1	-0.7	1.0
## 260	41.8	0.2	0.2
## 261	6.2	-0.3	-1.3
## 262	11.7	2.9	0.9
## 263	13.0	NA	NA
## 264	12.9	3.6	3.2
## 265	17.6	-0.8	-0.7
## 266	12.5	0.2	0.3
## 267	12.4	0.7	0.5
## 268	9.5	-0.2	0.6
## 269	20.7	-0.5	-0.1
## 270	14.4	3.5	3.5
## 271	16.0	0.1	-0.1
## 272	39.0	-0.7	0.9
## 273	25.3	2.6	0.5
## 274	25.7	1.0	0.5
## 275	8.3	0.6	-0.2
## 276	9.6	-1.5	-0.7
## 277	4.0	-1.3	-1.5
## 278	NA	NA	NA
## 279	3.8	1.4	0.1
## 280	3.9	-0.9	-0.2
## 281	NA	NA	NA
## 282	7.7	1.2	0.4
## 283	10.0	0.0	0.9
## 284	6.1	1.0	-0.2
## 285	19.7	0.4	-0.3
## 286	24.1	-0.3	1.0
## 287	34.8	1.2	1.1
## 288	39.2	NA	NA
## 289	14.5	-0.9	-0.8
## 290	NA	NA	NA
## 291	15.6	-2.9	-0.8
## 292	19.5	1.5	2.1

## 293	3.2	1.1	-0.9
## 294	18.4	0.2	0.4
## 295	15.1	0.5	0.3
## 296	20.9	-0.8	3.0
## 297	7.3	1.7	1.1
## 298	10.8	1.0	-0.2
## 299	20.9	0.1	1.6
## 300	4.6	0.8	0.6
## 301	33.5	-0.1	0.2
## 302	4.1	-0.9	0.5
## 303	22.2	0.4	0.6
## 304	11.9	-0.6	0.2
## 305	7.1	0.3	-1.2
## 306	11.3	-0.3	-1.1
## 307	NA	NA	NA
## 308	10.9	1.0	1.0
## 309	7.6	0.4	0.1
## 310	15.6	0.7	1.7
## 311	6.6	0.1	-0.7
## 312	10.5	-0.3	-0.6
## 313	8.3	-0.2	-0.3
## 314	12.4	-0.5	-0.1
## 315	14.7	-1.0	-0.4
## 316	16.2	1.9	1.1
## 317	11.0	1.7	0.0
## 318	15.0	-0.2	-0.6
## 319	4.0	-1.7	-0.6
## 320	9.3	0.8	-0.8
## 321	0.0	-0.4	-0.8
## 322	30.9	-0.4	0.7
## 323	NA	NA	NA
## 324	31.0	-1.1	-0.5
## 325	NA	NA	NA
## 326	6.1	0.3	-0.4
## 327	49.5	0.3	-0.3
## 328	38.0	1.1	2.0
## 329	14.2	1.1	0.8
## 330	6.9	-3.5	-5.0
## 331	4.0	-2.1	-2.2
## 332	15.8	NA	NA
## 333	7.7	2.0	1.0
## 334	86.4	1.0	0.5
## 335	5.0	-0.5	-0.1
## 336	NA	NA	NA
## 337	9.4	-1.0	0.0
## 338	11.4	0.6	1.5
## 339	7.8	-0.6	-0.3
## 340	8.2	-1.6	-1.0
## 341	27.5	0.2	-0.9
## 342	46.1	0.4	0.3
## 343	7.8	-0.8	0.1
## 344	42.4	0.2	0.0
## 345	13.7	-3.1	-0.6
## 346	4.0	0.7	-0.8

## 347	4.6	-0.3	-0.2
## 348	11.3	-0.2	0.2
## 349	23.7	-1.7	-0.4
## 350	13.5	-1.8	-1.5
## 351	9.2	-0.3	0.5
## 352	20.8	0.2	0.8
## 353	NA	NA	NA
## 354	8.7	0.0	1.1
## 355	18.5	0.1	0.9
## 356	11.9	-1.3	0.2
## 357	16.0	2.0	1.7
## 358	NA	NA	NA
## 359	NA	NA	NA
## 360	38.3	1.5	1.5
## 361	73.0	1.0	0.6
## 362	19.8	0.2	-0.4
## 363	4.6	-1.4	-0.6
## 364	5.5	0.2	1.0
## 365	17.1	2.8	0.2
## 366	12.0	-1.8	-0.3
## 367	28.6	-1.2	-0.8
## 368	16.1	0.0	-0.5
## 369	27.5	-0.3	0.0
## 370	23.7	-0.3	0.4
## 371	16.0	0.4	-1.6
## 372	4.4	1.3	-0.4
## 373	NA	NA	NA
## 374	1.7	-0.8	-1.9
## 375	12.9	-0.6	0.9
## 376	14.8	1.0	0.4
## 377	1.4	-1.3	-1.3
## 378	7.0	1.7	-1.1
## 379	24.8	-1.2	-1.1
## 380	2.6	-1.2	-0.7
## 381	4.6	0.6	0.5
## 382	5.4	-0.3	-0.6
## 383	23.7	0.3	0.6
## 384	7.8	-0.2	-1.2
## 385	38.2	-1.8	-1.0
## 386	8.4	2.8	0.5
## 387	0.0	-0.6	-0.1
## 388	39.2	-0.1	0.3
## 389	9.8	1.0	0.7
## 390	NA	NA	NA
## 391	4.3	1.2	-1.2
## 392	20.2	-1.2	0.2
## 393	15.6	-0.5	0.4
## 394	6.8	0.2	-0.6
## 395	7.5	0.7	-1.1
## 396	9.2	0.5	1.0
## 397	12.7	0.4	1.1
## 398	NA	NA	NA
## 399	0.0	-1.8	-1.6
## 400	10.9	NA	NA

## 401	NA	NA	NA
## 402	16.1	-0.8	-0.1
## 403	NA	NA	NA
## 404	8.9	1.9	-0.2
## 405	9.4	0.9	0.5
## 406	18.9	-0.3	-0.9
## 407	NA	NA	NA
## 408	13.7	-0.2	-0.3
## 409	NA	NA	NA
## 410	NA	NA	NA
## 411	NA	NA	NA
## 412	5.9	-0.9	-1.4
## 413	39.0	-1.8	-0.9
## 414	38.9	-0.6	-0.6
## 415	38.7	0.8	-0.5
## 416	6.0	0.3	0.5
## 417	3.0	-0.8	-2.3
## 418	54.7	1.1	-0.2
## 419	17.4	-0.6	-0.1
## 420	NA	NA	NA
## 421	5.9	2.4	0.6
## 422	9.8	0.9	2.3
## 423	17.0	-0.6	0.1
## 424	5.0	-1.1	-0.3
## 425	5.7	1.7	1.2
## 426	3.5	-0.2	-0.1
## 427	12.3	0.6	1.0
## 428	15.6	-0.5	-1.1
## 429	NA	NA	NA
## 430	3.4	-2.4	-0.4
## 431	NA	NA	NA
## 432	6.0	-0.1	0.9
## 433	21.4	-0.9	-0.5
## 434	14.7	-0.3	0.5
## 435	10.7	0.5	1.3
## 436	28.3	0.7	0.7
## 437	8.7	-0.5	0.3
## 438	36.0	-0.4	0.1
## 439	6.7	-0.2	-1.6
## 440	NA	NA	NA
## 441	12.8	-1.0	0.3
## 442	21.1	-0.2	0.8
## 443	19.4	0.5	1.2
## 444	12.2	-0.4	0.2
## 445	12.6	-0.7	-0.3
## 446	13.7	-0.4	-0.3
## 447	NA	NA	NA
## 448	11.4	-0.7	-0.1
## 449	7.6	0.0	-0.3
## 450	5.3	1.0	0.5
## 451	7.5	0.7	0.3
## 452	NA	NA	NA
## 453	5.4	-0.2	-1.0
## 454	NA	NA	NA

## 455	21.0	0.0	0.0
## 456	13.3	1.0	1.2
## 457	1.1	0.9	-0.9
## 458	29.9	-0.3	0.6
## 459	3.4	-1.4	-1.3
## 460	18.8	-0.4	0.6
## 461	37.6	-1.2	-0.8
## 462	15.4	0.4	1.0
## 463	NA	NA	NA
## 464	11.3	-0.4	-0.2
## 465	NA	NA	NA
## 466	12.5	0.6	1.4
## 467	5.6	-1.2	-1.7
## 468	6.2	-0.8	-0.6
## 469	5.8	-2.1	-0.8
## 470	21.2	-0.6	0.2
## 471	15.5	0.9	0.3
## 472	24.7	-0.1	0.0
## 473	11.0	-0.6	0.1
## 474	8.5	0.4	-0.7
## 475	34.5	2.2	0.3
## 476	12.2	0.2	0.7
## 477	11.0	-1.0	-0.9
## 478	12.7	-0.4	0.4
## 479	6.6	-1.7	0.9
## 480	3.2	0.0	-0.9
## 481	100.0	NA	NA
## 482	9.1	-0.5	-0.5
## 483	3.6	0.1	-1.4
## 484	48.8	1.0	1.5
## 485	0.0	NA	NA
## 486	NA	NA	NA
## 487	11.0	0.7	1.7
## 488	NA	NA	NA
## 489	93.6	0.2	-1.0
## 490	6.9	-0.5	0.0
## 491	23.2	0.3	0.1
## 492	NA	NA	NA
## 493	44.7	0.3	1.7
## 494	29.2	0.7	-0.2
## 495	16.5	0.5	0.7
## 496	9.7	-0.9	-0.2
## 497	NA	NA	NA
## 498	7.3	-0.1	0.9
## 499	3.8	0.1	0.0
## 500	NA	NA	NA
## 501	6.7	-0.4	-0.7
## 502	88.4	1.8	1.6
## 503	1.0	0.9	-2.3
## 504	4.9	-0.7	1.2
## 505	34.0	0.0	0.4
## 506	14.0	0.7	0.0
## 507	9.8	1.7	0.4
## 508	28.5	0.2	0.6

## 509	NA	NA	NA
## 510	4.0	-1.7	-2.2
## 511	23.2	0.1	0.9
## 512	2.3	0.8	-0.2
## 513	NA	NA	NA
## 514	10.3	2.1	-0.8
## 515	17.7	-1.1	-1.5
## 516	NA	NA	NA
## 517	35.7	0.4	0.6
## 518	35.9	1.0	1.3
## 519	NA	NA	NA
## 520	7.4	1.4	0.0
## 521	9.9	2.0	-0.3
## 522	5.7	0.7	0.7
## 523	27.5	0.6	0.1
## 524	20.9	-0.8	0.7
## 525	NA	NA	NA
## 526	15.7	2.2	1.0
## 527	NA	NA	NA
## 528	4.2	-0.5	-1.0
## 529	6.9	-0.3	-0.2
## 530	5.7	-0.9	-1.3
## 531	13.0	-2.2	-1.0
## 532	77.0	-1.2	-0.8
## 533	33.2	0.7	-0.4
## 534	20.9	2.7	2.3
## 535	3.8	0.0	-1.4
## 536	29.0	0.7	0.1
## 537	39.9	0.3	0.5
## 538	23.6	0.9	1.0
## 539	10.1	-0.7	0.0
## 540	5.0	0.4	0.4
## 541	27.9	0.4	1.3
## 542	9.6	0.4	0.7
## 543	15.3	0.5	-0.1
## 544	3.2	1.1	-0.9
## 545	8.4	0.3	-0.4
## 546	50.6	-3.1	-1.8
## 547	8.9	0.4	0.5
## 548	35.2	-0.8	1.5
## 549	5.6	-0.5	-1.6
## 550	7.9	-1.1	-0.5
## 551	NA	NA	NA
## 552	6.0	0.7	-0.3
## 553	29.6	0.2	0.0
## 554	NA	NA	NA
## 555	5.8	-0.9	0.2
## 556	5.5	0.3	-0.2
## 557	19.4	0.5	0.9
## 558	9.6	-0.1	-0.2
## 559	NA	NA	NA
## 560	27.9	1.1	2.5
## 561	15.5	0.4	3.3
## 562	1.7	0.7	-1.3

## 563	5.5	-0.2	-1.2
## 564	11.0	0.4	0.3
## 565	22.2	0.1	0.0
## 566	NA	NA	NA
##	College.Enrollment..number.of.students.	General.Services.Route	
## 1		813	33
## 2		521	46
## 3		1324	44
## 4		556	42
## 5		302	40
## 6		266	31
## 7		4368	35
## 8		620	35
## 9		232	33
## 10		1023	31
## 11		998	35
## 12		476	42
## 13		307	33
## 14		398	34
## 15		525	48
## 16		428	48
## 17		801	34
## 18		274	49
## 19		551	34
## 20		171	39
## 21		264	47
## 22		586	34
## 23		539	45
## 24		114	34
## 25		730	46
## 26		556	38
## 27		339	43
## 28		245	49
## 29		669	35
## 30		436	42
## 31		550	42
## 32		345	43
## 33		905	47
## 34		539	43
## 35		652	45
## 36		784	30
## 37		459	45
## 38		573	43
## 39		490	44
## 40		572	33
## 41		316	36
## 42		337	42
## 43		250	36
## 44		398	47
## 45		204	49
## 46		634	29
## 47		1683	39
## 48		302	45
## 49		301	45

## 50	429	34
## 51	350	42
## 52	325	46
## 53	137	44
## 54	340	46
## 55	549	34
## 56	691	39
## 57	550	42
## 58	286	47
## 59	766	45
## 60	792	39
## 61	2366	29
## 62	644	31
## 63	343	45
## 64	537	43
## 65	329	40
## 66	915	42
## 67	1415	29
## 68	315	36
## 69	1032	44
## 70	446	39
## 71	246	49
## 72	403	46
## 73	600	40
## 74	291	47
## 75	1890	30
## 76	622	35
## 77	407	43
## 78	310	42
## 79	551	46
## 80	430	36
## 81	331	43
## 82	601	30
## 83	502	30
## 84	579	49
## 85	483	40
## 86	833	47
## 87	650	30
## 88	688	48
## 89	309	35
## 90	602	43
## 91	531	43
## 92	409	37
## 93	1038	39
## 94	233	48
## 95	274	42
## 96	298	37
## 97	894	37
## 98	752	32
## 99	160	30
## 100	324	42
## 101	631	37
## 102	828	34
## 103	365	45

## 104	370	36
## 105	1456	37
## 106	200	35
## 107	357	45
## 108	1139	32
## 109	363	29
## 110	823	43
## 111	632	47
## 112	1001	29
## 113	915	40
## 114	381	46
## 115	310	49
## 116	543	44
## 117	556	37
## 118	318	42
## 119	192	48
## 120	468	30
## 121	431	30
## 122	244	42
## 123	783	46
## 124	1365	42
## 125	414	34
## 126	554	47
## 127	321	39
## 128	314	33
## 129	377	36
## 130	830	44
## 131	461	42
## 132	138	49
## 133	1716	29
## 134	419	43
## 135	182	45
## 136	1133	37
## 137	762	49
## 138	289	35
## 139	451	31
## 140	1111	36
## 141	473	42
## 142	344	35
## 143	458	46
## 144	988	37
## 145	471	46
## 146	238	46
## 147	1021	44
## 148	581	44
## 149	672	30
## 150	342	49
## 151	375	32
## 152	786	30
## 153	389	39
## 154	604	43
## 155	860	29
## 156	100	38
## 157	1560	44

## 158	344	49
## 159	112	40
## 160	1382	43
## 161	478	49
## 162	418	43
## 163	314	37
## 164	891	43
## 165	224	42
## 166	301	36
## 167	808	45
## 168	504	48
## 169	609	48
## 170	363	33
## 171	867	39
## 172	1195	29
## 173	949	29
## 174	220	36
## 175	269	35
## 176	354	36
## 177	619	34
## 178	260	30
## 179	495	33
## 180	1636	31
## 181	1052	43
## 182	606	38
## 183	237	45
## 184	315	36
## 185	1509	32
## 186	283	40
## 187	709	32
## 188	358	49
## 189	621	48
## 190	182	36
## 191	396	33
## 192	259	48
## 193	297	36
## 194	532	48
## 195	546	48
## 196	813	47
## 197	1524	47
## 198	504	48
## 199	828	34
## 200	321	36
## 201	713	37
## 202	280	32
## 203	402	43
## 204	371	37
## 205	688	31
## 206	245	36
## 207	1672	44
## 208	783	48
## 209	363	31
## 210	1499	29
## 211	549	48

## 212	893	34
## 213	605	29
## 214	569	33
## 215	259	36
## 216	977	32
## 217	1299	31
## 218	633	47
## 219	1334	29
## 220	393	36
## 221	448	46
## 222	588	49
## 223	731	46
## 224	672	31
## 225	561	45
## 226	611	32
## 227	472	47
## 228	458	36
## 229	1518	46
## 230	423	32
## 231	215	40
## 232	130	37
## 233	388	37
## 234	690	33
## 235	285	48
## 236	970	45
## 237	916	39
## 238	244	40
## 239	575	46
## 240	140	40
## 241	411	34
## 242	203	30
## 243	574	30
## 244	695	31
## 245	199	45
## 246	923	33
## 247	845	42
## 248	317	46
## 249	1125	29
## 250	449	47
## 251	491	35
## 252	306	40
## 253	593	34
## 254	1834	39
## 255	277	46
## 256	492	40
## 257	365	37
## 258	928	47
## 259	306	45
## 260	1181	31
## 261	474	34
## 262	364	37
## 263	340	48
## 264	355	42
## 265	786	35

## 266	501	39
## 267	800	29
## 268	249	40
## 269	638	31
## 270	328	38
## 271	510	39
## 272	668	31
## 273	590	44
## 274	664	40
## 275	553	49
## 276	1777	44
## 277	254	46
## 278	1589	44
## 279	537	42
## 280	409	39
## 281	967	44
## 282	476	45
## 283	554	36
## 284	679	42
## 285	733	44
## 286	317	49
## 287	580	33
## 288	258	40
## 289	841	47
## 290	726	38
## 291	1245	48
## 292	323	37
## 293	475	38
## 294	266	49
## 295	919	31
## 296	527	43
## 297	809	39
## 298	355	32
## 299	384	45
## 300	482	49
## 301	720	30
## 302	375	49
## 303	348	35
## 304	937	29
## 305	753	32
## 306	869	35
## 307	793	37
## 308	362	32
## 309	1204	37
## 310	1317	29
## 311	286	39
## 312	293	37
## 313	490	29
## 314	462	32
## 315	328	47
## 316	262	45
## 317	656	39
## 318	886	32
## 319	83	37

## 320	576	36
## 321	26	47
## 322	283	49
## 323	1252	29
## 324	1852	46
## 325	1500	33
## 326	424	48
## 327	576	33
## 328	609	35
## 329	1520	29
## 330	429	34
## 331	508	37
## 332	654	37
## 333	518	34
## 334	328	45
## 335	565	36
## 336	2342	33
## 337	658	44
## 338	842	37
## 339	941	29
## 340	455	31
## 341	432	33
## 342	481	35
## 343	93	36
## 344	729	33
## 345	1173	44
## 346	411	42
## 347	511	43
## 348	1139	29
## 349	864	31
## 350	438	32
## 351	323	49
## 352	580	35
## 353	599	37
## 354	426	39
## 355	356	49
## 356	873	44
## 357	1306	39
## 358	3320	37
## 359	366	38
## 360	535	40
## 361	784	38
## 362	1161	44
## 363	1390	44
## 364	417	46
## 365	445	34
## 366	826	30
## 367	257	33
## 368	188	47
## 369	860	31
## 370	1423	30
## 371	434	38
## 372	362	37
## 373	48	36

## 374	271	36
## 375	1408	47
## 376	367	49
## 377	241	40
## 378	194	38
## 379	705	44
## 380	726	36
## 381	394	48
## 382	658	36
## 383	811	32
## 384	222	46
## 385	1584	49
## 386	349	34
## 387	21	38
## 388	909	49
## 389	290	49
## 390	324	37
## 391	775	46
## 392	631	39
## 393	872	44
## 394	200	37
## 395	268	36
## 396	1032	39
## 397	446	40
## 398	1535	45
## 399	91	35
## 400	696	32
## 401	701	47
## 402	1015	31
## 403	1053	32
## 404	464	45
## 405	435	47
## 406	1004	30
## 407	883	34
## 408	359	31
## 409	1053	31
## 410	1226	49
## 411	298	31
## 412	756	29
## 413	359	30
## 414	558	35
## 415	834	30
## 416	413	45
## 417	334	45
## 418	648	30
## 419	636	39
## 420	831	34
## 421	361	47
## 422	524	36
## 423	605	33
## 424	505	34
## 425	352	46
## 426	348	46
## 427	650	31

## 428	512	45
## 429	1456	40
## 430	320	46
## 431	733	45
## 432	369	45
## 433	269	40
## 434	832	30
## 435	709	39
## 436	735	32
## 437	365	40
## 438	533	46
## 439	364	44
## 440	461	38
## 441	447	39
## 442	1139	30
## 443	864	35
## 444	1222	43
## 445	489	48
## 446	465	33
## 447	137	40
## 448	1503	44
## 449	832	44
## 450	797	42
## 451	402	45
## 452	478	38
## 453	690	34
## 454	1532	31
## 455	474	47
## 456	460	36
## 457	466	43
## 458	1384	40
## 459	371	47
## 460	486	44
## 461	916	43
## 462	250	35
## 463	1016	35
## 464	319	35
## 465	826	32
## 466	283	48
## 467	422	36
## 468	525	37
## 469	479	36
## 470	445	49
## 471	444	33
## 472	542	30
## 473	504	35
## 474	285	48
## 475	549	31
## 476	538	43
## 477	862	34
## 478	1846	44
## 479	291	45
## 480	354	43
## 481	242	33

## 482	1186	44
## 483	352	48
## 484	795	38
## 485	255	46
## 486	201	43
## 487	811	36
## 488	205	39
## 489	289	32
## 490	532	32
## 491	1000	32
## 492	1657	32
## 493	646	32
## 494	351	38
## 495	376	43
## 496	1070	44
## 497	440	45
## 498	285	39
## 499	512	36
## 500	1490	31
## 501	185	48
## 502	269	31
## 503	307	42
## 504	288	39
## 505	352	35
## 506	288	47
## 507	369	49
## 508	590	31
## 509	2883	39
## 510	435	31
## 511	373	48
## 512	473	32
## 513	211	39
## 514	398	38
## 515	330	47
## 516	410	36
## 517	1651	32
## 518	558	33
## 519	881	33
## 520	359	45
## 521	44	45
## 522	279	43
## 523	1047	30
## 524	482	38
## 525	633	35
## 526	254	49
## 527	590	40
## 528	363	48
## 529	686	34
## 530	343	48
## 531	659	32
## 532	2166	38
## 533	414	30
## 534	234	34
## 535	321	45

## 536				243		44
## 537				722		33
## 538				805		32
## 539				311		42
## 540				184		48
## 541				843		30
## 542				588		39
## 543				1239		31
## 544				217		38
## 545				264		38
## 546				2922		30
## 547				240		33
## 548				654		46
## 549				302		49
## 550				896		42
## 551				1656		44
## 552				453		40
## 553				687		30
## 554				871		38
## 555				527		47
## 556				423		37
## 557				1345		29
## 558				1061		34
## 559				621		43
## 560				266		40
## 561				125		40
## 562				462		45
## 563				371		42
## 564				748		34
## 565				238		46
## 566				382		37
##	X_COORDINATE	Y_COORDINATE	Latitude	Longitude	Community.Area.Number	
## 1	1171699	1915829	41.92450	-87.64452		7
## 2	1196130	1856209	41.76032	-87.55674		43
## 3	1148427	1851012	41.74711	-87.73170		70
## 4	1164504	1873959	41.80976	-87.67214		61
## 5	1175178	1880745	41.82815	-87.63279		34
## 6	1153858	1932692	41.97114	-87.70963		14
## 7	1158975	1923792	41.94662	-87.69106		5
## 8	1161265	1909315	41.90684	-87.68304		24
## 9	1161871	1919857	41.93576	-87.68052		5
## 10	1149774	1932831	41.97161	-87.72464		14
## 11	1160328	1924863	41.94953	-87.68605		5
## 12	1172336	1875309	41.81329	-87.64338		61
## 13	1164474	1923334	41.94525	-87.67086		6
## 14	1158554	1909250	41.90672	-87.69300		24
## 15	1175379	1829179	41.68664	-87.63359		49
## 16	1178053	1835838	41.70485	-87.62360		49
## 17	1148503	1908961	41.90613	-87.72993		23
## 18	1168628	1835868	41.70514	-87.65812		72
## 19	1152512	1901721	41.88618	-87.71540		27
## 20	1158816	1892330	41.86029	-87.69250		29
## 21	1189298	1843690	41.72613	-87.58218		48
## 22	1150697	1912594	41.91606	-87.72178		22

## 23	1170892	1855486 41.75893 -87.64925	68
## 24	1158554	1909250 41.90672 -87.69300	24
## 25	1186765	1864534 41.78340 -87.59080	42
## 26	1167365	1897512 41.87433 -87.66098	28
## 27	1168649	1864844 41.78466 -87.65721	67
## 28	1157959	1832892 41.69720 -87.69726	74
## 29	1162693	1909392 41.90702 -87.67780	24
## 30	1178699	1872549 41.80558 -87.62012	38
## 31	1184577	1874697 41.81133 -87.59850	39
## 32	1168872	1866273 41.78857 -87.65634	67
## 33	1197292	1845782 41.73168 -87.55282	46
## 34	1167858	1869573 41.79765 -87.65997	61
## 35	1181645	1850010 41.74366 -87.61002	44
## 36	1121356	1924041 41.94799 -87.82933	17
## 37	1184079	1848753 41.74015 -87.60114	44
## 38	1163590	1856038 41.76060 -87.67600	67
## 39	1154459	1849314 41.74233 -87.70965	70
## 40	1164768	1920683 41.93796 -87.66985	6
## 41	1139495	1901274 41.88520 -87.76321	25
## 42	1181885	1865140 41.78517 -87.60867	42
## 43	1139495	1901274 41.88520 -87.76321	25
## 44	1186651	1851732 41.74827 -87.59162	45
## 45	1161152	1829644 41.68822 -87.68566	75
## 46	1137592	1915981 41.92560 -87.76984	19
## 47	1166666	1889615 41.85267 -87.66377	31
## 48	1174114	1860551 41.77275 -87.63729	68
## 49	1171706	1860461 41.77256 -87.64613	68
## 50	1157476	1911359 41.91253 -87.69691	24
## 51	1177802	1864618 41.78383 -87.62365	40
## 52	1185847	1872152 41.80432 -87.59392	39
## 53	1132296	1861625 41.77653 -87.79057	64
## 54	1187805	1868216 41.79347 -87.58686	41
## 55	1148147	1906778 41.90015 -87.73130	23
## 56	1159042	1879077 41.82391 -87.69204	58
## 57	1177513	1872170 41.80456 -87.62448	38
## 58	1190566	1841648 41.72050 -87.57759	51
## 59	1182386	1844495 41.72851 -87.60747	44
## 60	1153707	1879217 41.82441 -87.71161	58
## 61	1146851	1923628 41.94641 -87.73563	16
## 62	1155853	1921364 41.94002 -87.70260	21
## 63	1169836	1857832 41.76539 -87.65306	68
## 64	1158182	1849398 41.74249 -87.69600	70
## 65	1181853	1875820 41.81448 -87.60846	38
## 66	1166187	1873024 41.80716 -87.66600	61
## 67	1139989	1913971 41.92004 -87.76108	19
## 68	1148118	1892327 41.86049 -87.73177	29
## 69	1152339	1850309 41.74510 -87.71739	70
## 70	1157809	1889555 41.85269 -87.69628	30
## 71	1171336	1839925 41.71621 -87.64808	73
## 72	1183537	1869840 41.79803 -87.60246	41
## 73	1169424	1884310 41.83805 -87.65380	60
## 74	1189641	1848464 41.73923 -87.58077	45
## 75	1133838	1919614 41.93563 -87.78355	19
## 76	1155127	1915284 41.92335 -87.70543	22

## 77	1164618	1866985 41.79062 -87.67192	67
## 78	1178369	1860178 41.77163 -87.62171	69
## 79	1177940	1856846 41.76250 -87.62338	69
## 80	1147607	1896098 41.87085 -87.73355	26
## 81	1165772	1863964 41.78230 -87.66778	67
## 82	1135740	1922003 41.94215 -87.77651	17
## 83	1135740	1922003 41.94215 -87.77651	17
## 84	1152383	1830664 41.69119 -87.71774	74
## 85	1178881	1881647 41.83054 -87.61918	35
## 86	1191701	1847744 41.73720 -87.57324	45
## 87	1126173	1944639 42.00444 -87.81116	9
## 88	1174273	1830373 41.68994 -87.63761	49
## 89	1161596	1906671 41.89958 -87.68190	24
## 90	1164982	1853724 41.75422 -87.67096	71
## 91	1162156	1862200 41.77754 -87.68109	66
## 92	1156217	1893723 41.86416 -87.70201	29
## 93	1155752	1874367 41.81106 -87.70423	58
## 94	1181431	1834230 41.70036 -87.61128	49
## 95	1177176	1871286 41.80214 -87.62575	38
## 96	1153388	1889511 41.85266 -87.71251	29
## 97	1155097	1885728 41.84225 -87.70634	30
## 98	1157069	1944483 42.00344 -87.69750	2
## 99	1132103	1932163 41.97010 -87.78964	10
## 100	1177513	1872170 41.80456 -87.62448	38
## 101	1148305	1886901 41.84560 -87.73123	30
## 102	1151768	1908130 41.90379 -87.71796	23
## 103	1171140	1858533 41.76728 -87.64826	68
## 104	1149264	1895760 41.86989 -87.72748	26
## 105	1154444	1888031 41.84858 -87.70867	30
## 106	1159059	1921901 41.94143 -87.69080	5
## 107	1172596	1868882 41.79565 -87.64262	61
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## 110	1160112	1864645 41.78429 -87.68851	66
## 111	1202756	1839915 41.71545 -87.53301	52
## 112	1138718	1914429 41.92132 -87.76574	19
## 113	1183114	1875545 41.81369 -87.60384	39
## 114	1183997	1860906 41.77350 -87.60106	42
## 115	1173617	1832764 41.69652 -87.63994	49
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## 117	1152489	1891762 41.85886 -87.71575	29
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## 445	1175245	1822917	41.66946	-87.63427	53
## 446	1164403	1928980	41.96074	-87.67096	6
## 447	1177161	1888615	41.84970	-87.62528	33
## 448	1149882	1872308	41.80552	-87.72582	57
## 449	1149114	1861300	41.77533	-87.72892	65
## 450	1164498	1871258	41.80234	-87.67224	61
## 451	1171927	1853951	41.75469	-87.64551	71
## 452	1161290	1898612	41.87747	-87.68325	28
## 453	1156561	1912262	41.91503	-87.70024	22
## 454	1162034	1934187	41.97508	-87.67952	4

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## 456	1139489	1899515	41.88038	-87.76327	25
## 457	1165540	1869516	41.79754	-87.66847	61
## 458	1173077	1884891	41.83957	-87.64038	60
## 459	1193433	1839450	41.71440	-87.56717	51
## 460	1140972	1861304	41.77549	-87.75877	64
## 461	1164704	1863861	41.78204	-87.67170	67
## 462	1160870	1900993	41.88402	-87.68472	28
## 463	1160235	1907769	41.90262	-87.68687	24
## 464	1166155	1910107	41.90891	-87.66506	24
## 465	1164775	1944269	42.00269	-87.66916	1
## 466	1173988	1821226	41.66485	-87.63892	53
## 467	1143947	1905911	41.89785	-87.74675	25
## 468	1152737	1886876	41.84544	-87.71496	30
## 469	1148477	1891003	41.85685	-87.73049	29
## 470	1173661	1842654	41.72365	-87.63948	73
## 471	1174702	1907453	41.90144	-87.63374	8
## 472	1134940	1937130	41.98368	-87.77909	10
## 473	1158105	1913362	41.91802	-87.69454	22
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## 475	1143919	1939921	41.99117	-87.74599	12
## 476	1165442	1851950	41.74934	-87.66933	71
## 477	1150124	1912135	41.91481	-87.72389	20
## 478	1155568	1869433	41.79752	-87.70504	63
## 479	1170923	1857302	41.76391	-87.64909	68
## 480	1166134	1859929	41.77122	-87.66657	67
## 481	1171671	1908774	41.90514	-87.64483	8
## 482	1153951	1867538	41.79235	-87.71102	63
## 483	1177728	1827096	41.68087	-87.62506	53
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## 485	1186925	1858826	41.76773	-87.59039	43
## 486	1163597	1855772	41.75987	-87.67598	67
## 487	1142962	1901180	41.88488	-87.75048	25
## 488	1157045	1887896	41.84815	-87.69913	30
## 489	1155108	1946609	42.00931	-87.70466	2
## 490	1163960	1950960	42.02106	-87.67196	1
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## 497	1174730	1863740	41.78149	-87.63494	68
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## 501	1185308	1840333	41.71702	-87.59690	50
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## 519	1174485	1907490 41.90155 -87.63454	8
## 520	1172094	1848202 41.73891 -87.64506	71
## 521	1174682	1862611 41.77840 -87.63515	68
## 522	1160846	1870986 41.80167 -87.68564	63
## 523	1134203	1928092 41.95889 -87.78201	15
## 524	1161216	1896475 41.87161 -87.68358	28
## 525	1165513	1906491 41.89901 -87.66752	24
## 526	1170125	1841046 41.71932 -87.65249	73
## 527	1178735	1879230 41.82391 -87.61979	35
## 528	1183210	1836877 41.70758 -87.60469	50
## 529	1147828	1909241 41.90691 -87.73241	23
## 530	1174831	1825539 41.67666 -87.63571	53
## 531	1154772	1944306 42.00300 -87.70595	2
## 532	1166476	1899059 41.87859 -87.66420	28
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## 534	1156925	1900585 41.88298 -87.69922	27
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## 536	1155531	1849518 41.74287 -87.70571	70
## 537	1175918	1906948 41.90003 -87.62929	8
## 538	1167898	1934500 41.97581 -87.65795	3
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## 541	1125765	1922082 41.94254 -87.81317	17
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## 550	1165412	1874163 41.81030 -87.66881	61
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## 552	1178726	1880476 41.82733 -87.61978	35
## 553	1131112	1940800 41.99382 -87.79308	10
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## 555	1199963	1850234 41.74383 -87.54289	46
## 556	1150967	1891574 41.85837 -87.72134	29
## 557	1140989	1924453 41.94878 -87.75715	15
## 558	1148074	1913865 41.91959 -87.73138	20
## 559	1165425	1861341 41.77511 -87.66913	67
## 560	1176276	1886545 41.84404 -87.62859	35
## 561	1176276	1886545 41.84404 -87.62859	35
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## 564	1150644	1914369	41.92093	-87.72193	22
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## 566	1147521	1883405	41.83602	-87.73419	30
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## 27	16	7			
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## 532	2	12
## 533	41	16
## 534	2	13
## 535	6	7

```
## 536 18 8
## 537 42 18
## 538 48 20
## 539 4 2
## 540 9 5
## 541 36 16
## 542 25 10
## 543 39 17
## 544 27 13
## 545 2 11
## 546 41 16
## 547 32 19
## 548 5 2
## 549 21 22
## 550 20 9
## 551 18 8
## 552 3 2
## 553 41 16
## 554 2 1
## 555 10 4
## 556 24 10
## 557 38 16
## 558 30 25
## 559 15 7
## 560 3 1
## 561 3 1
## 562 16 9
## 563 20 2
## 564 35 25
## 565 5 3
## 566 22 10
```

Numerical Analysis

```
#Correlation of all Variables
correlation.matrix <- cor(numeric.data, use = "complete.obs")
correlation.dataset <- as.data.frame(correlation.matrix)
most.correlation <- which(abs(correlation.matrix) < 1 & abs(correlation.matrix) > .70)

rows.list <- list()
columns.list <- list()
j <- 1
#For Loop for finding maximum correlations
for(i in most.correlation) {
  #Correlation
  row <- ceiling(i/ncol(numeric.data))
  column <- ifelse(i%ncol(numeric.data) == 0, ncol(numeric.data), i%ncol(numeric.data))
  rows.list[[j]] <- rownames(correlation.dataset[row,])
  columns.list[[j]] <- names(correlation.dataset)[column]
  j = j+1
}
```

```

row.column.names = cbind(rows.list, columns.list)

#New Dataframe To hold Rows/ Columns
row.column.dataframe <- data.frame(
  row = NULL,
  column = NULL
)
#putting values in dataframe
for(i in 1:length(rows.list)) {
  newRow = data.frame(row = rows.list[[i]], column = columns.list[[i]])
  row.column.dataframe <- rbind(row.column.dataframe, newRow)
}

#Changing variable types to character
row.column.dataframe$row <- as.character(row.column.dataframe$row)
row.column.dataframe$column <- as.character(row.column.dataframe$column)

#Removing Duplicates
for (i in 1:nrow(row.column.dataframe))
{
  row.column.dataframe[i, ] = sort(row.column.dataframe[i, ])
}
row.column.dataframe <- row.column.dataframe[!duplicated(row.column.dataframe),]

#Viewing Dataframe of Variables with the most Correlation
row.column.dataframe

```

```

##              row              column
## 1  ISAT.Exceeding.Math..  Safety.Score
## 2  ISAT.Exceeding.Reading..  Safety.Score
## 3    Environment.Score  Instruction.Score
## 6  ISAT.Exceeding.Math..  ISAT.Exceeding.Reading..
## 9  General.Services.Route  Y_COORDINATE
## 10 General.Services.Route  Latitude
## 11 Community.Area.Number  General.Services.Route
## 12              Longitude  X_COORDINATE
## 14              Latitude  Y_COORDINATE
## 15 Community.Area.Number  Y_COORDINATE
## 18 Community.Area.Number  Latitude
## 23      Police.District  Ward

```

```

#For Loop For Creating Scatterplots of data with the Greatest Correlation
for(i in 1:nrow(row.column.dataframe)) {
  #Extract column and row variable
  row <- row.column.dataframe[[i, 1]]
  column <- row.column.dataframe[[i, 2]]
  #Plot
  print(ggplot(CPS.data) +
    geom_point(aes_string(x = row, y = column), color = "blue4") +
    geom_smooth(aes_string(x = row, y = column)) +
    theme_minimal() +
    ggtitle("Correlations"))
}

```

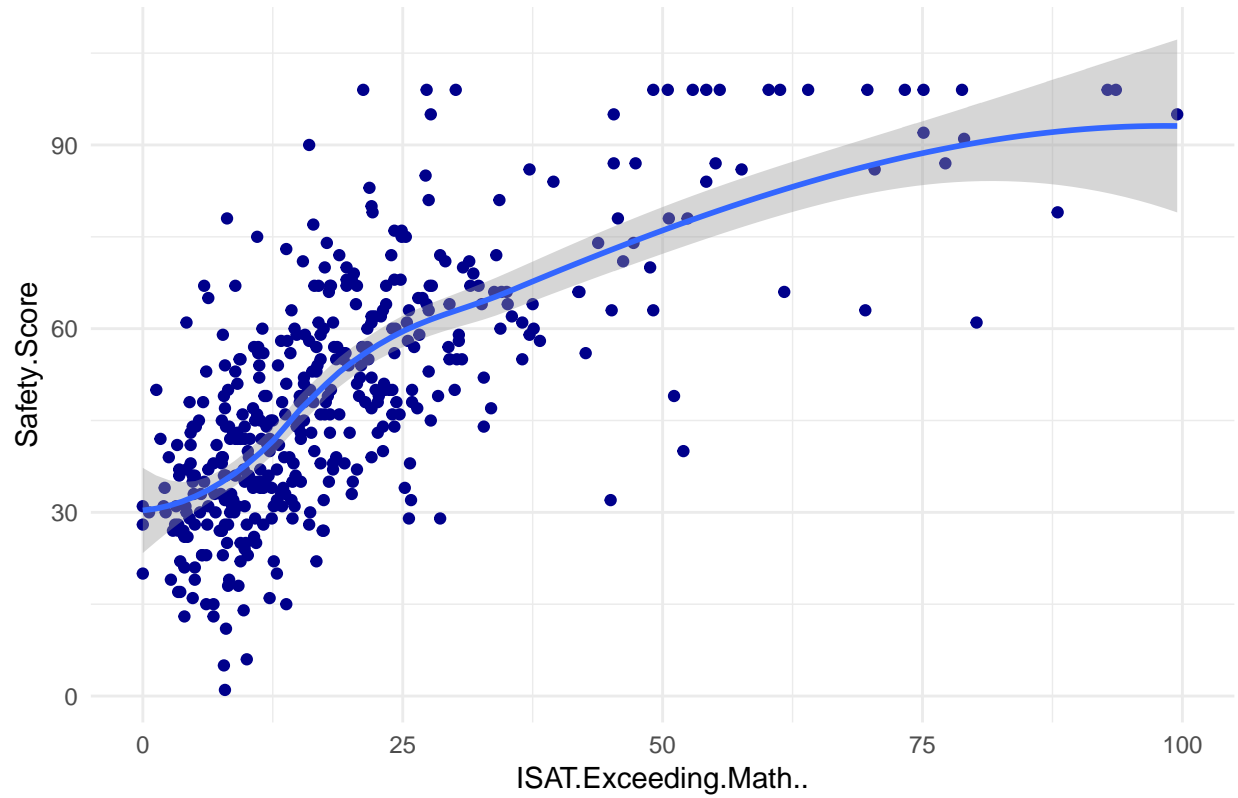
```

## `geom_smooth()` using method = 'loess' and formula 'y ~ x'

```

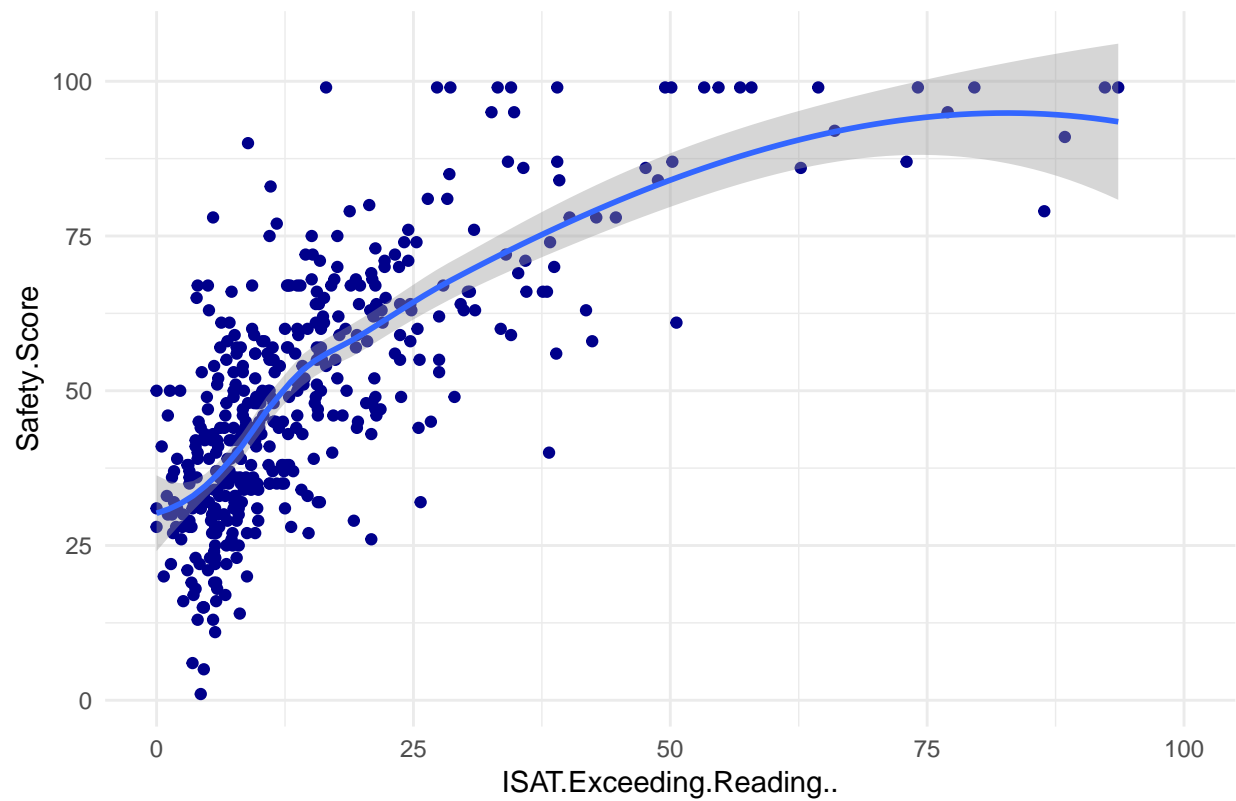
```
## Warning: Removed 130 rows containing non-finite values (stat_smooth).  
## Warning: Removed 130 rows containing missing values (geom_point).
```

Correlations



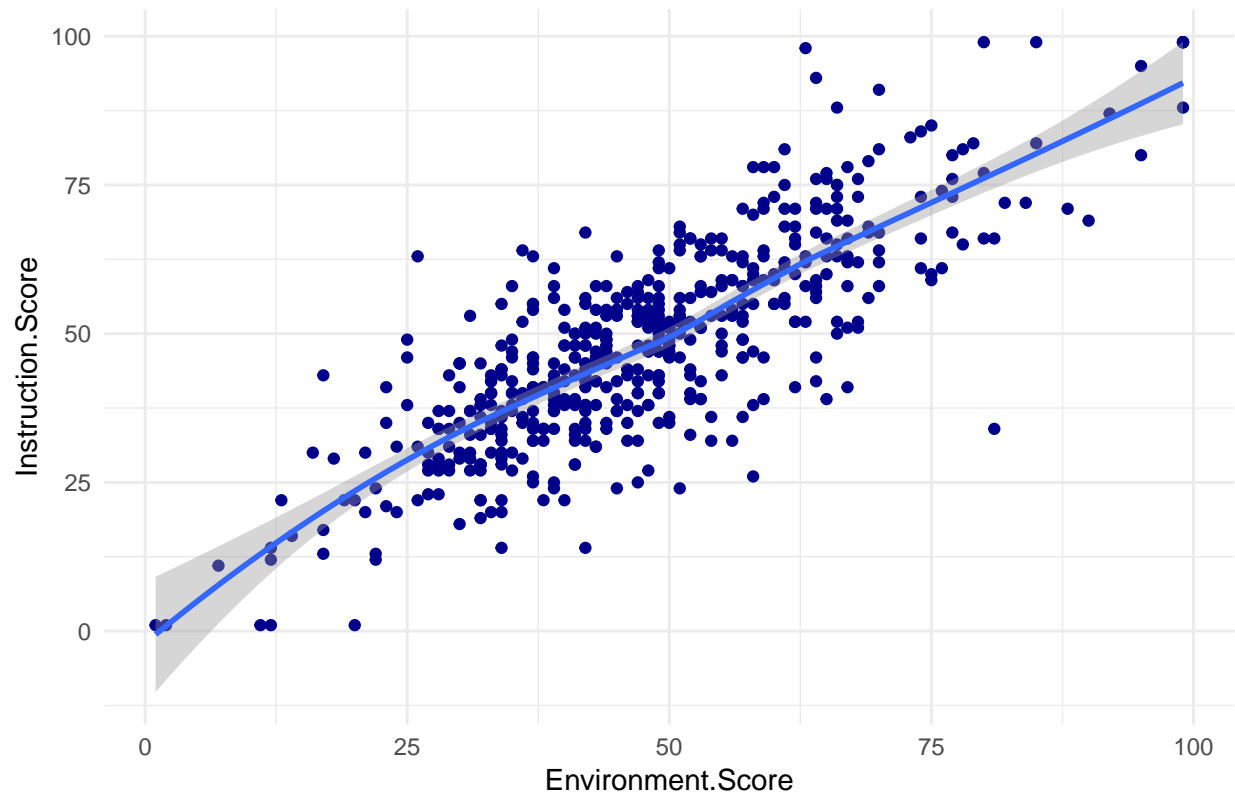
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'  
## Warning: Removed 130 rows containing non-finite values (stat_smooth).  
## Warning: Removed 130 rows containing missing values (geom_point).
```

Correlations



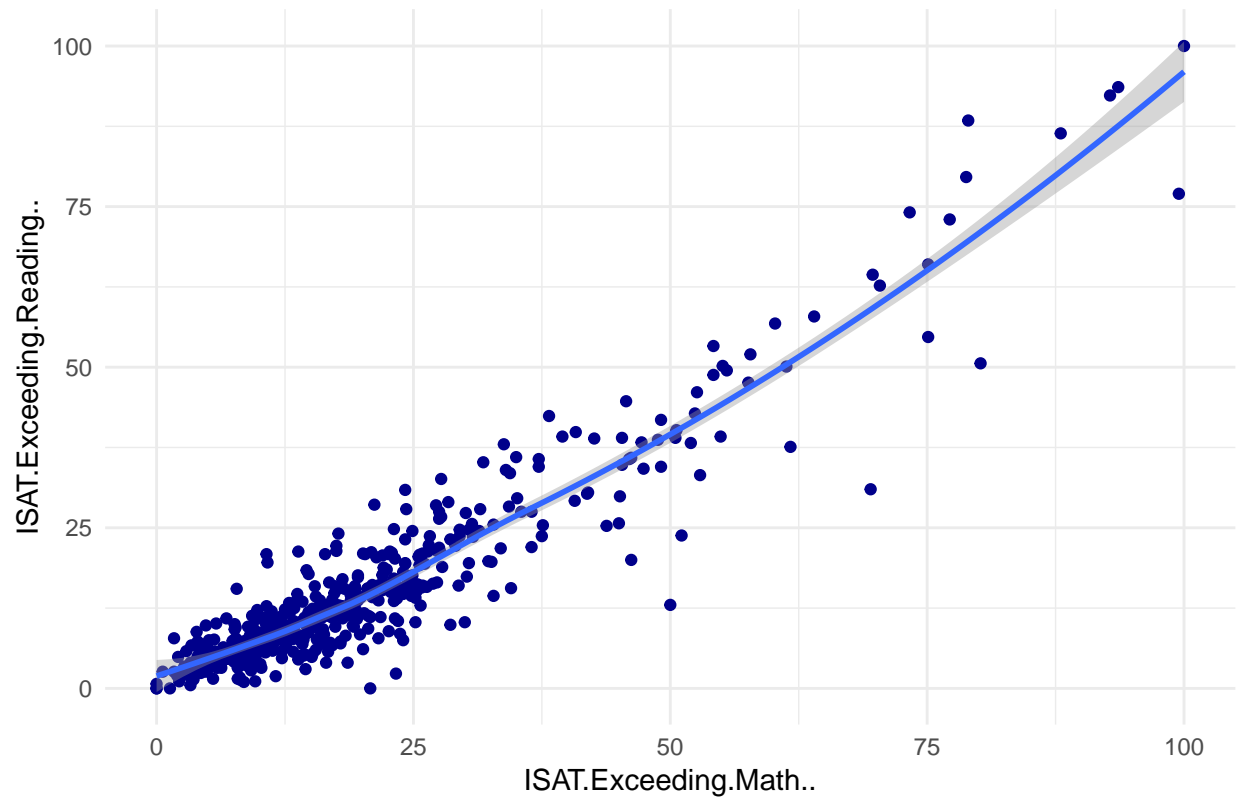
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'  
## Warning: Removed 53 rows containing non-finite values (stat_smooth).  
## Warning: Removed 53 rows containing missing values (geom_point).
```


Correlations

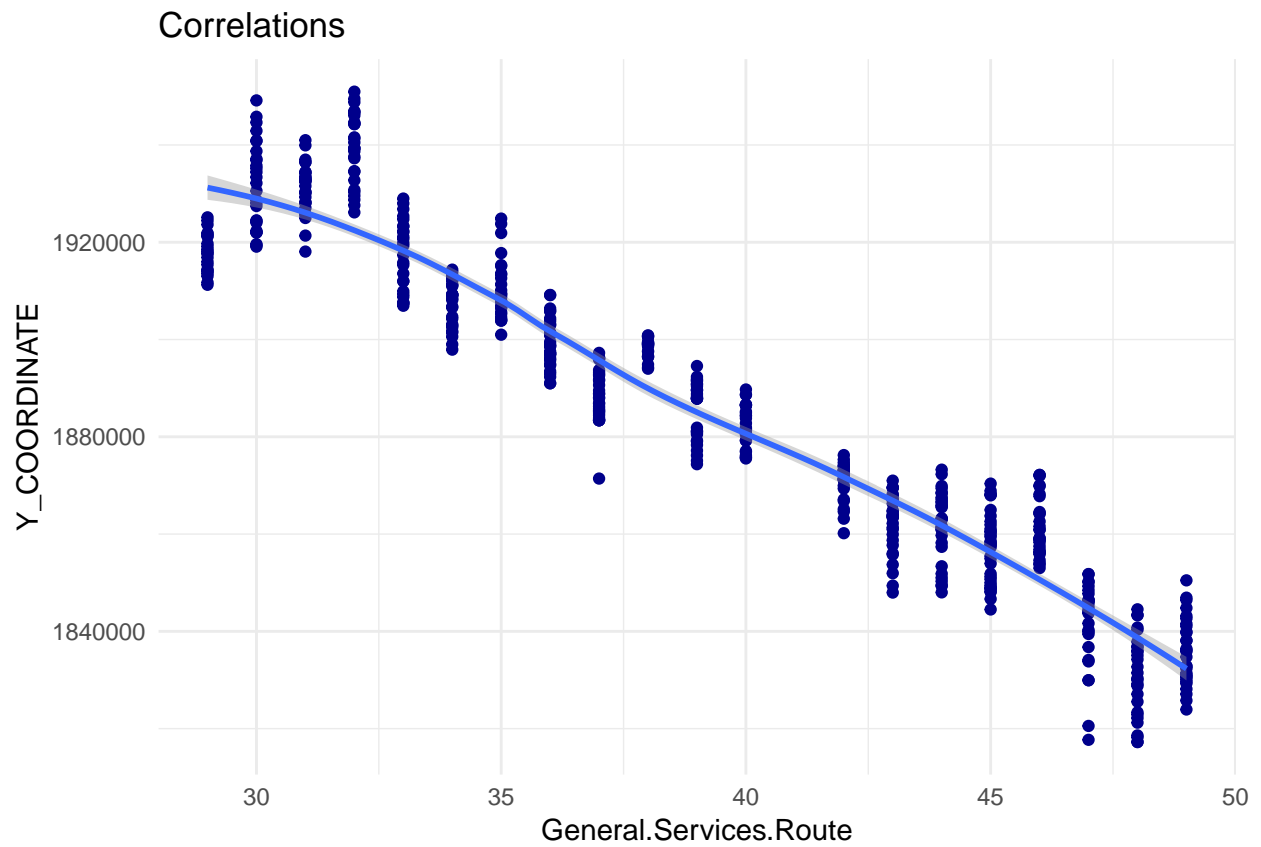


```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
## Warning: Removed 90 rows containing non-finite values (stat_smooth).
## Warning: Removed 90 rows containing missing values (geom_point).
```

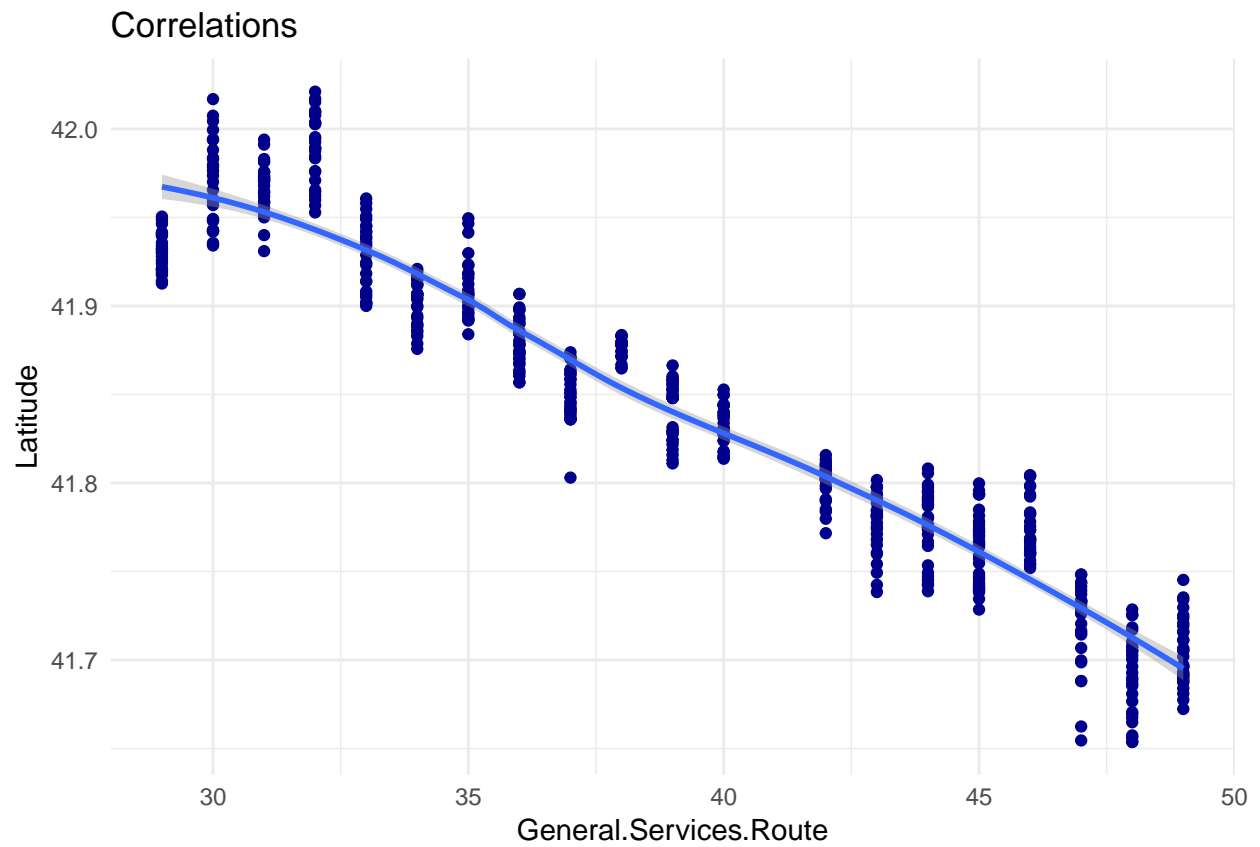
Correlations



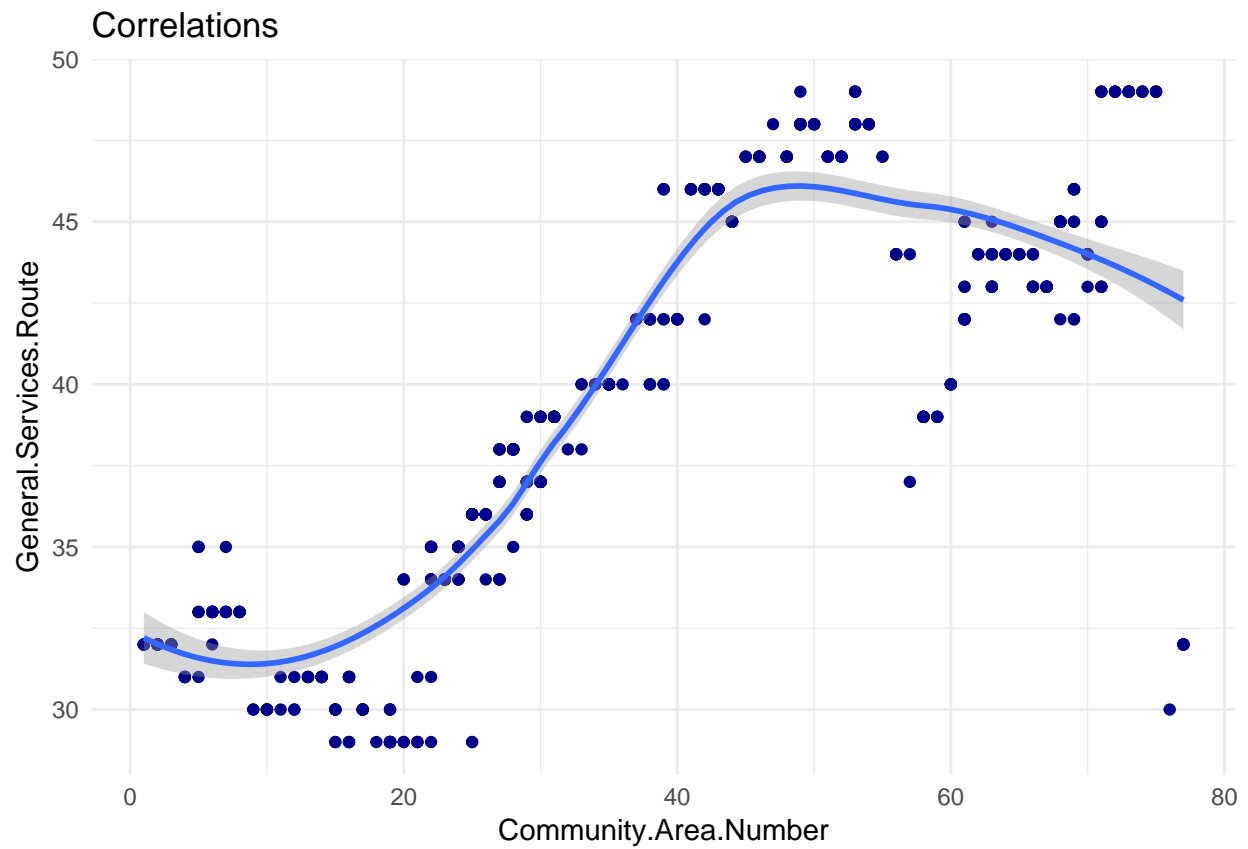
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



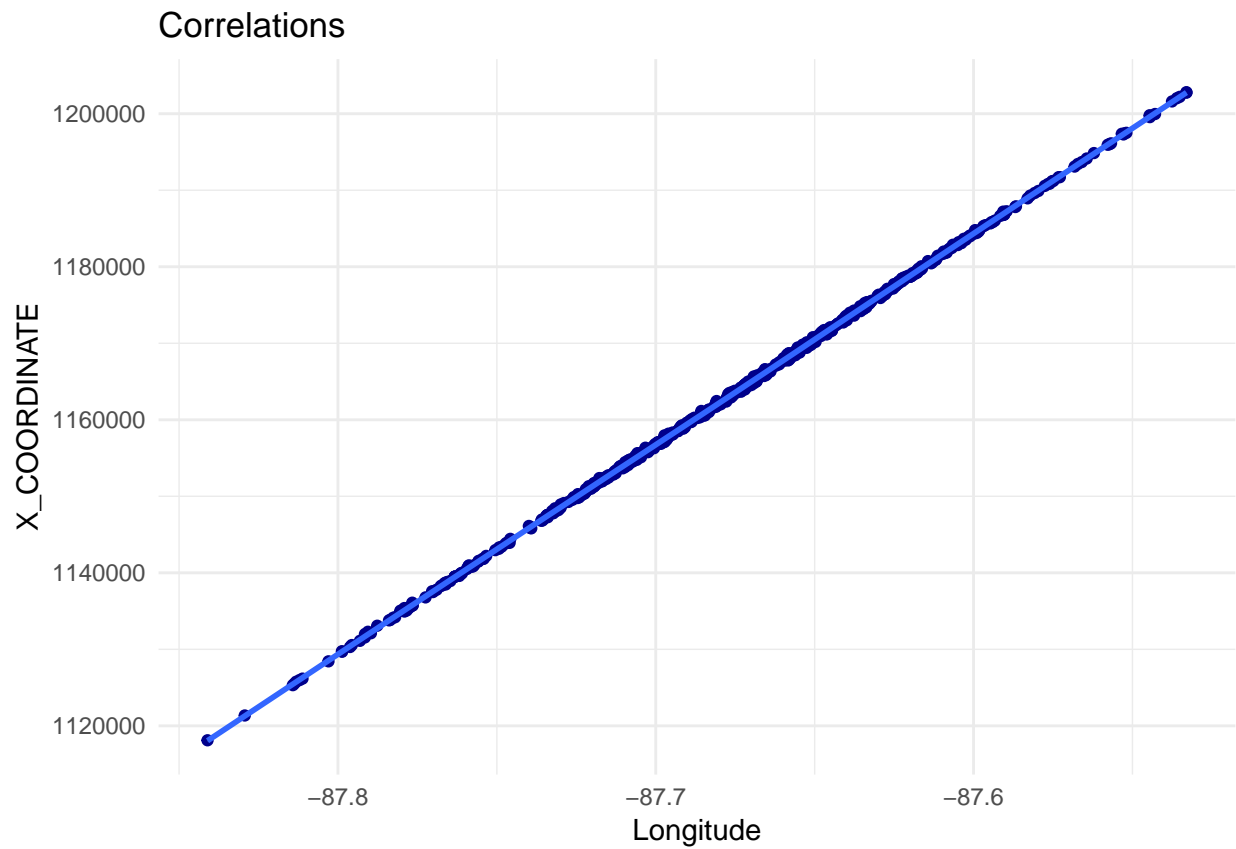
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



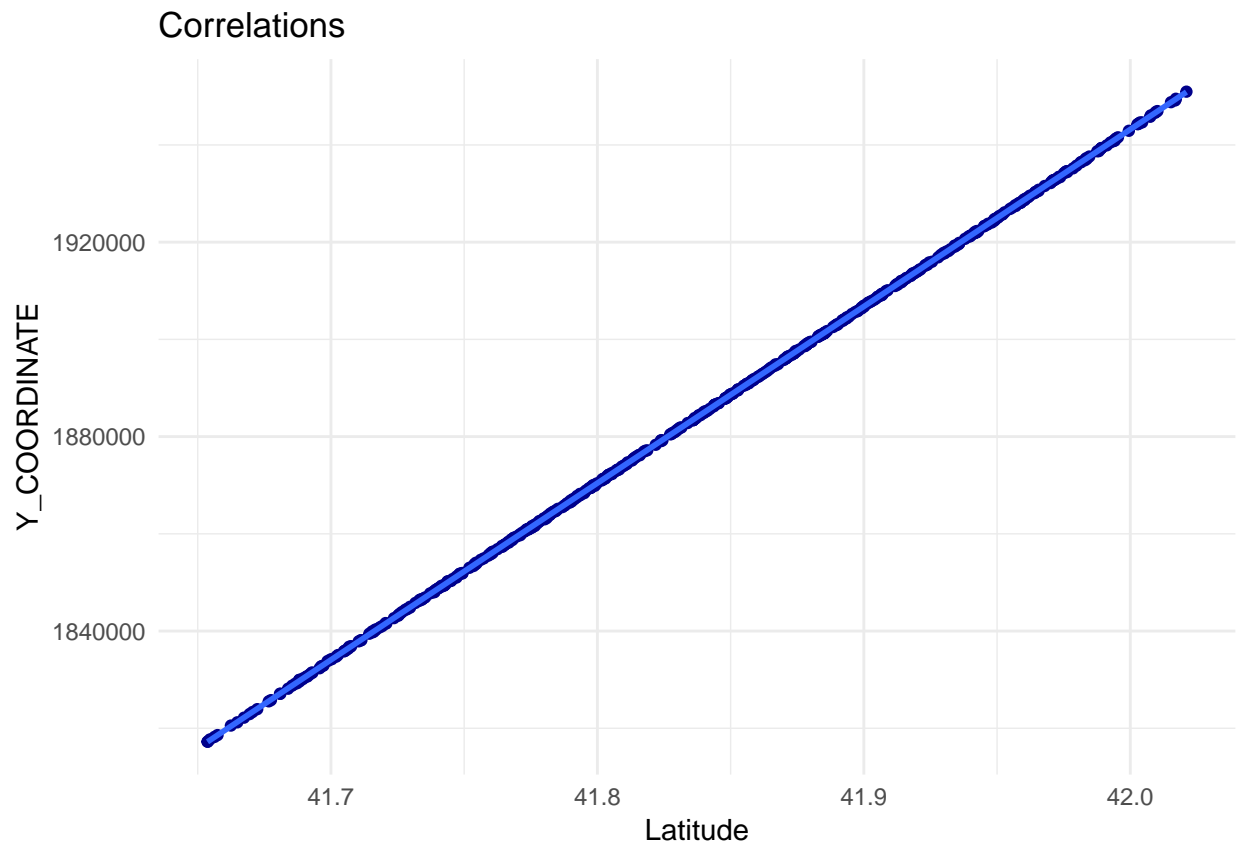
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



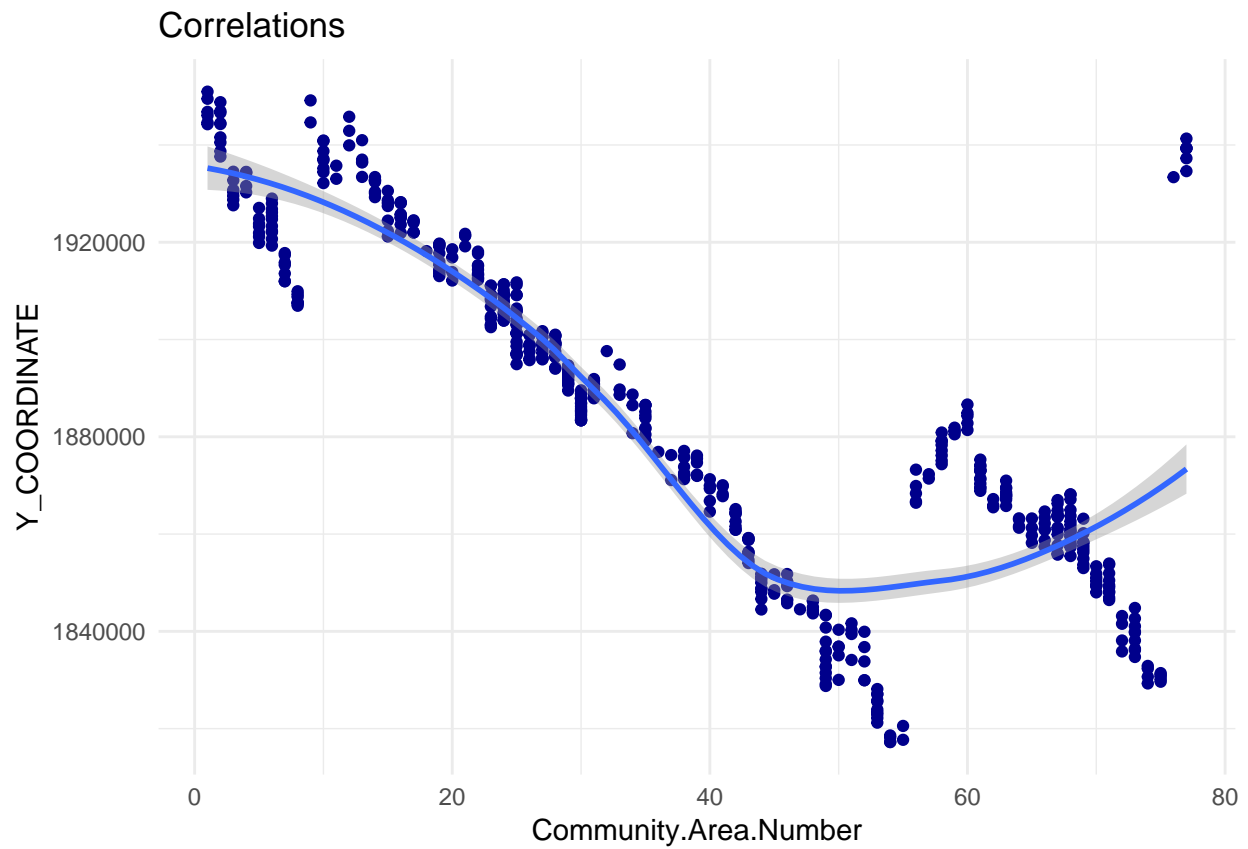
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



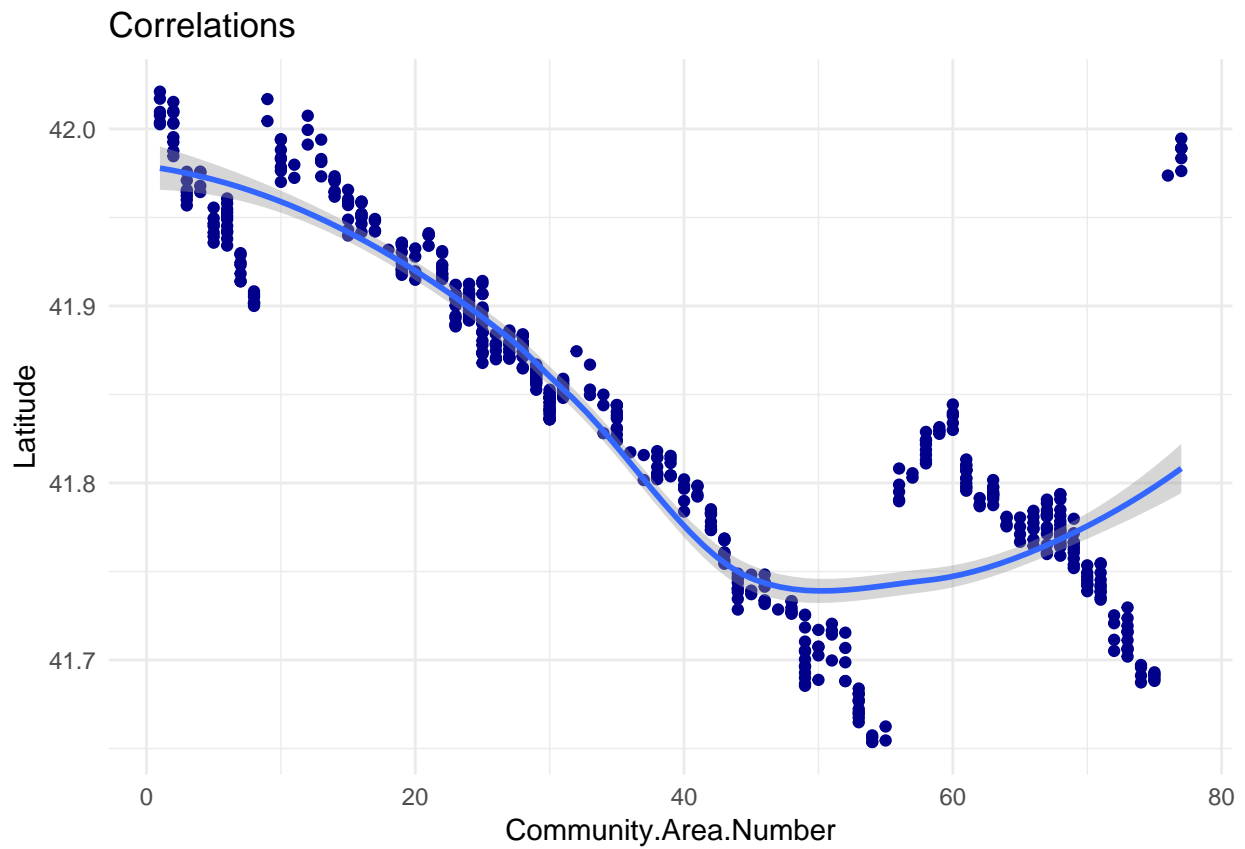
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



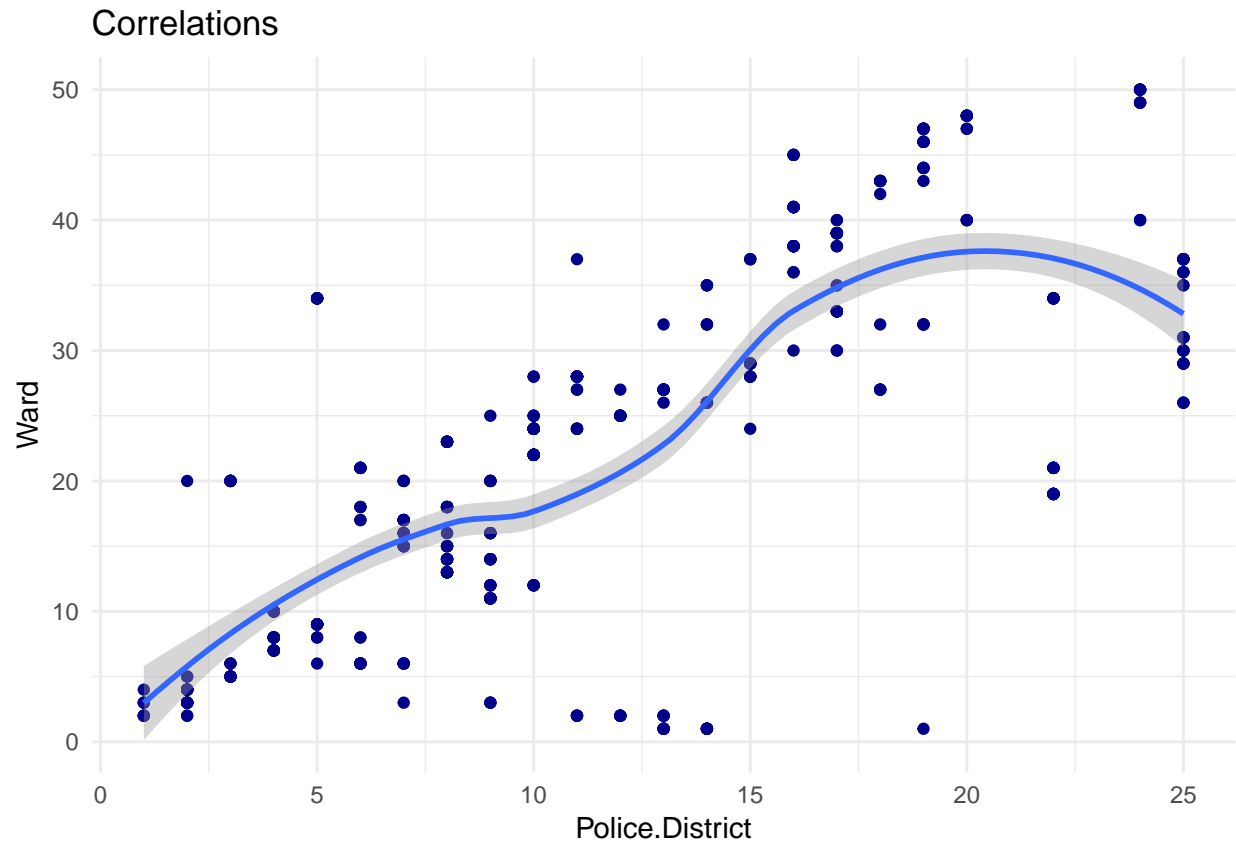
```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



How well can we predict student attendance?

Goal - determine best model between lasso regression, ridge regression, and least squares regression with variable selection.

#Least Squares Model

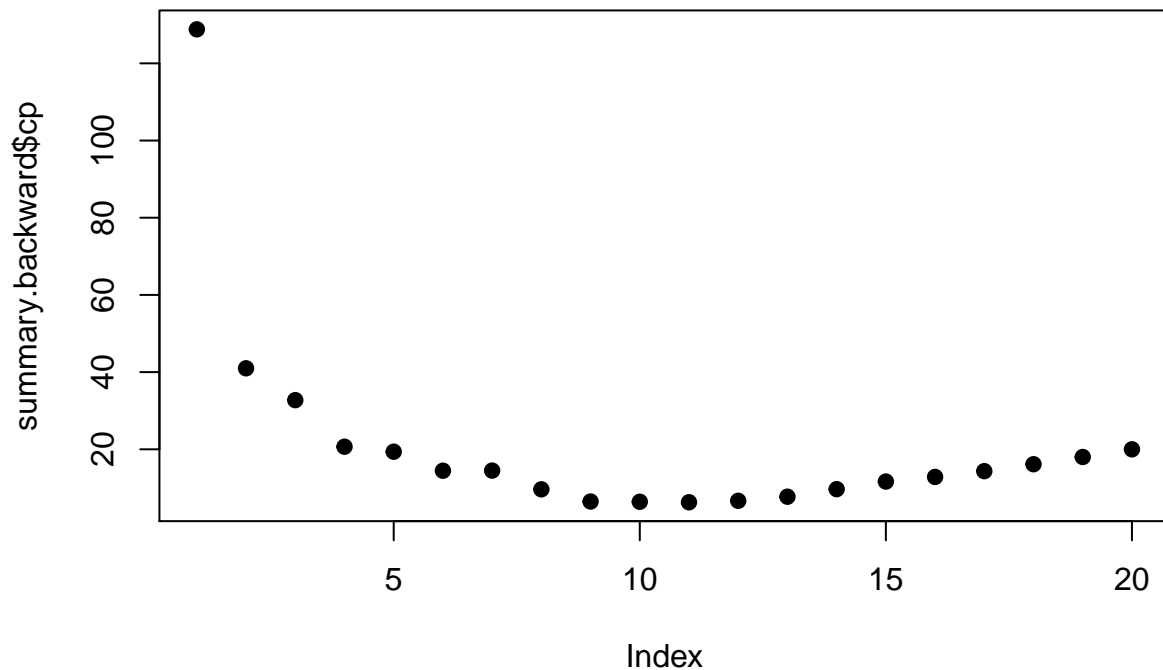
```
fullLinMod.SA <- lm(Average.Student.Attendance~., data = numeric.data)
```

#Backward Elimination

```
BE.linMod.SA = regsubsets(Average.Student.Attendance~., data= numeric.data, nvmax= 20, method = "backward")
```

```
summary.backward = summary(BE.linMod.SA)
```

```
plot(summary.backward$cp, pch = 19)
```



```
step(fullLinMod.SA, direction = "backward")
```

```
## Start:  AIC=486.98
## Average.Student.Attendance ~ School.ID + ZIP.Code + Safety.Score +
##   Environment.Score + Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
##   ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
##   ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
##   General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
##   Longitude + Community.Area.Number + Ward + Police.District
##
##                                     Df Sum of Sq   RSS
## - Longitude                        1    0.000 1204.3
## - X_COORDINATE                     1    0.001 1204.3
## - School.ID                        1    0.020 1204.3
## - Police.District                  1    0.345 1204.6
## - Average.Teacher.Attendance       1    0.555 1204.8
## - Latitude                         1    0.582 1204.9
## - Y_COORDINATE                     1    0.585 1204.9
## - Ward                             1    1.571 1205.9
## - ZIP.Code                         1    1.622 1205.9
## - ISAT.Value.Add.Read               1    4.990 1209.3
## <none>                             1204.3
## - Instruction.Score                 1    5.920 1210.2
## - Individualized.Education.Program.Compliance.Rate 1    6.527 1210.8
## - General.Services.Route            1    6.643 1210.9
```

```

## - ISAT.Exceeding.Math..      1    10.312 1214.6
## - ISAT.Exceeding.Reading..   1    11.084 1215.4
## - Community.Area.Number      1    14.489 1218.8
## - Environment.Score          1    18.674 1223.0
## - College.Enrollment..number.of.students. 1    22.745 1227.0
## - ISAT.Value.Add.Math        1    26.223 1230.5
## - Safety.Score               1    92.481 1296.8
## - Rate.of.Misconducts..per.100.students. 1   217.418 1421.7
##                               AIC
## - Longitude                  484.98
## - X_COORDINATE               484.98
## - School.ID                  484.99
## - Police.District            485.10
## - Average.Teacher.Attendance 485.18
## - Latitude                   485.19
## - Y_COORDINATE               485.19
## - Ward                       485.55
## - ZIP.Code                   485.57
## - ISAT.Value.Add.Read        486.78
## <none>                       486.98
## - Instruction.Score          487.12
## - Individualized.Education.Program.Compliance.Rate 487.34
## - General.Services.Route     487.38
## - ISAT.Exceeding.Math..      488.70
## - ISAT.Exceeding.Reading..   488.97
## - Community.Area.Number      490.19
## - Environment.Score          491.69
## - College.Enrollment..number.of.students. 493.14
## - ISAT.Value.Add.Math        494.37
## - Safety.Score               517.24
## - Rate.of.Misconducts..per.100.students. 557.34
##
## Step:  AIC=484.98
## Average.Student.Attendance ~ School.ID + ZIP.Code + Safety.Score +
##   Environment.Score + Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
##   ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
##   ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
##   General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
##   Community.Area.Number + Ward + Police.District
##
##                               Df Sum of Sq    RSS
## - School.ID                  1     0.020 1204.3
## - Police.District            1     0.351 1204.7
## - Average.Teacher.Attendance 1     0.555 1204.8
## - X_COORDINATE               1     1.499 1205.8
## - Latitude                   1     1.547 1205.8
## - Y_COORDINATE               1     1.548 1205.8
## - Ward                       1     1.583 1205.9
## - ZIP.Code                   1     1.631 1205.9
## - ISAT.Value.Add.Read        1     5.002 1209.3
## <none>                       1204.3
## - Instruction.Score          1     5.921 1210.2
## - Individualized.Education.Program.Compliance.Rate 1     6.538 1210.8

```

```

## - General.Services.Route          1      6.860 1211.2
## - ISAT.Exceeding.Math..          1     10.345 1214.6
## - ISAT.Exceeding.Reading..       1     11.084 1215.4
## - Community.Area.Number          1     14.568 1218.9
## - Environment.Score              1     18.687 1223.0
## - College.Enrollment..number.of.students. 1     22.846 1227.1
## - ISAT.Value.Add.Math             1     26.230 1230.5
## - Safety.Score                   1     94.191 1298.5
## - Rate.of.Misconducts..per.100.students. 1    217.690 1422.0
##                                     AIC
## - School.ID                      482.99
## - Police.District                 483.11
## - Average.Teacher.Attendance      483.18
## - X_COORDINATE                    483.52
## - Latitude                        483.54
## - Y_COORDINATE                    483.54
## - Ward                           483.55
## - ZIP.Code                        483.57
## - ISAT.Value.Add.Read             484.79
## <none>                            484.98
## - Instruction.Score               485.12
## - Individualized.Education.Program.Compliance.Rate 485.34
## - General.Services.Route          485.46
## - ISAT.Exceeding.Math..          486.71
## - ISAT.Exceeding.Reading..       486.97
## - Community.Area.Number          488.22
## - Environment.Score              489.69
## - College.Enrollment..number.of.students. 491.17
## - ISAT.Value.Add.Math             492.37
## - Safety.Score                   515.81
## - Rate.of.Misconducts..per.100.students. 555.43
##
## Step: AIC=482.99
## Average.Student.Attendance ~ ZIP.Code + Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
##   ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
##   ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
##   General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
##   Community.Area.Number + Ward + Police.District
##
##                                     Df Sum of Sq    RSS
## - Police.District                  1      0.368 1204.7
## - Average.Teacher.Attendance        1      0.542 1204.9
## - X_COORDINATE                      1      1.483 1205.8
## - Latitude                          1      1.531 1205.8
## - Y_COORDINATE                      1      1.532 1205.8
## - Ward                             1      1.571 1205.9
## - ZIP.Code                          1      1.620 1205.9
## - ISAT.Value.Add.Read               1      4.990 1209.3
## <none>                              1204.3
## - Instruction.Score                 1      5.907 1210.2
## - Individualized.Education.Program.Compliance.Rate 1      6.521 1210.8
## - General.Services.Route            1      6.846 1211.2

```

```

## - ISAT.Exceeding.Math..          1    10.325 1214.6
## - ISAT.Exceeding.Reading..       1    11.117 1215.4
## - Community.Area.Number          1    14.562 1218.9
## - Environment.Score              1    18.752 1223.1
## - College.Enrollment..number.of.students. 1    23.537 1227.8
## - ISAT.Value.Add.Math            1    26.255 1230.6
## - Safety.Score                   1    96.101 1300.4
## - Rate.of.Misconducts..per.100.students. 1   217.745 1422.1
##                                     AIC
## - Police.District                481.12
## - Average.Teacher.Attendance     481.18
## - X_COORDINATE                   481.52
## - Latitude                       481.54
## - Y_COORDINATE                   481.54
## - Ward                           481.56
## - ZIP.Code                       481.57
## - ISAT.Value.Add.Read            482.79
## <none>                           482.99
## - Instruction.Score              483.12
## - Individualized.Education.Program.Compliance.Rate 483.34
## - General.Services.Route         483.46
## - ISAT.Exceeding.Math..          484.71
## - ISAT.Exceeding.Reading..       484.99
## - Community.Area.Number          486.23
## - Environment.Score              487.72
## - College.Enrollment..number.of.students. 489.43
## - ISAT.Value.Add.Math            490.39
## - Safety.Score                   514.46
## - Rate.of.Misconducts..per.100.students. 553.45
##
## Step: AIC=481.12
## Average.Student.Attendance ~ ZIP.Code + Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
##   ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
##   ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
##   General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
##   Community.Area.Number + Ward
##
##                                     Df Sum of Sq    RSS
## - Average.Teacher.Attendance      1     0.595 1205.3
## - ZIP.Code                        1     1.450 1206.1
## - X_COORDINATE                    1     1.873 1206.6
## - Latitude                        1     1.963 1206.7
## - Y_COORDINATE                    1     1.964 1206.7
## - Ward                            1     3.052 1207.7
## - ISAT.Value.Add.Read              1     5.002 1209.7
## <none>                             1204.7
## - Instruction.Score                1     5.861 1210.5
## - Individualized.Education.Program.Compliance.Rate 1     6.599 1211.3
## - General.Services.Route           1     6.849 1211.5
## - ISAT.Exceeding.Math..            1    10.451 1215.1
## - ISAT.Exceeding.Reading..         1    11.328 1216.0
## - Community.Area.Number            1    14.597 1219.3

```

```

## - Environment.Score          1    18.841 1223.5
## - College.Enrollment..number.of.students. 1    24.106 1228.8
## - ISAT.Value.Add.Math        1    26.637 1231.3
## - Safety.Score               1    96.885 1301.6
## - Rate.of.Misconducts..per.100.students. 1   218.029 1422.7
##                               AIC
## - Average.Teacher.Attendance 479.34
## - ZIP.Code                   479.64
## - X_COORDINATE               479.80
## - Latitude                   479.83
## - Y_COORDINATE               479.83
## - Ward                       480.22
## - ISAT.Value.Add.Read        480.93
## <none>                       481.12
## - Instruction.Score          481.24
## - Individualized.Education.Program.Compliance.Rate 481.50
## - General.Services.Route     481.59
## - ISAT.Exceeding.Math..      482.89
## - ISAT.Exceeding.Reading..   483.20
## - Community.Area.Number      484.37
## - Environment.Score          485.89
## - College.Enrollment..number.of.students. 487.76
## - ISAT.Value.Add.Math        488.66
## - Safety.Score               512.85
## - Rate.of.Misconducts..per.100.students. 551.65
##
## Step: AIC=479.34
## Average.Student.Attendance ~ ZIP.Code + Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##   College.Enrollment..number.of.students. + General.Services.Route +
##   X_COORDINATE + Y_COORDINATE + Latitude + Community.Area.Number +
##   Ward
##
##                               Df Sum of Sq    RSS
## - ZIP.Code                   1     1.490 1206.8
## - X_COORDINATE               1     1.884 1207.2
## - Latitude                   1     1.976 1207.3
## - Y_COORDINATE               1     1.977 1207.3
## - Ward                       1     3.083 1208.4
## - ISAT.Value.Add.Read        1     5.034 1210.3
## <none>                       1205.3
## - Instruction.Score          1     5.979 1211.3
## - Individualized.Education.Program.Compliance.Rate 1     6.658 1211.9
## - General.Services.Route     1     6.974 1212.2
## - ISAT.Exceeding.Math..      1    10.696 1216.0
## - ISAT.Exceeding.Reading..   1    11.539 1216.8
## - Community.Area.Number      1    14.651 1219.9
## - Environment.Score          1    18.922 1224.2
## - College.Enrollment..number.of.students. 1    24.201 1229.5
## - ISAT.Value.Add.Math        1    26.057 1231.3
## - Safety.Score               1    97.045 1302.3
## - Rate.of.Misconducts..per.100.students. 1   217.879 1423.2

```

```

##                                     AIC
## - ZIP.Code                        477.87
## - X_COORDINATE                    478.02
## - Latitude                        478.05
## - Y_COORDINATE                    478.05
## - Ward                            478.45
## - ISAT.Value.Add.Read             479.15
## <none>                            479.34
## - Instruction.Score               479.49
## - Individualized.Education.Program.Compliance.Rate 479.74
## - General.Services.Route          479.85
## - ISAT.Exceeding.Math..          481.19
## - ISAT.Exceeding.Reading..       481.49
## - Community.Area.Number          482.60
## - Environment.Score              484.13
## - College.Enrollment..number.of.students. 486.00
## - ISAT.Value.Add.Math            486.66
## - Safety.Score                   511.10
## - Rate.of.Misconducts..per.100.students. 549.78
##
## Step: AIC=477.87
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##   College.Enrollment..number.of.students. + General.Services.Route +
##   X_COORDINATE + Y_COORDINATE + Latitude + Community.Area.Number +
##   Ward
##
##                                     Df Sum of Sq    RSS
## - X_COORDINATE                      1      2.321 1209.1
## - Latitude                          1      2.380 1209.2
## - Y_COORDINATE                      1      2.380 1209.2
## - Ward                              1      2.445 1209.2
## - ISAT.Value.Add.Read               1      4.985 1211.8
## <none>                              1      1206.8
## - Instruction.Score                 1      6.062 1212.8
## - Individualized.Education.Program.Compliance.Rate 1      6.340 1213.1
## - General.Services.Route            1      6.458 1213.2
## - ISAT.Exceeding.Math..            1     10.516 1217.3
## - ISAT.Exceeding.Reading..         1     11.270 1218.0
## - Community.Area.Number            1     14.553 1221.3
## - Environment.Score                1     18.909 1225.7
## - College.Enrollment..number.of.students. 1     24.370 1231.1
## - ISAT.Value.Add.Math              1     26.926 1233.7
## - Safety.Score                     1     96.987 1303.8
## - Rate.of.Misconducts..per.100.students. 1    220.054 1426.8
##                                     AIC
## - X_COORDINATE                      476.71
## - Latitude                          476.73
## - Y_COORDINATE                      476.73
## - Ward                             476.76
## - ISAT.Value.Add.Read              477.67
## <none>                             477.87

```



```

## - Instruction.Score                                478.06
## - Individualized.Education.Program.Compliance.Rate 478.16
## - General.Services.Route                           478.20
## - ISAT.Exceeding.Math..                           479.66
## - ISAT.Exceeding.Reading..                        479.93
## - Community.Area.Number                           481.10
## - Environment.Score                               482.65
## - College.Enrollment..number.of.students.         484.59
## - ISAT.Value.Add.Math                             485.50
## - Safety.Score                                    509.58
## - Rate.of.Misconducts..per.100.students.          548.91
##
## Step:  AIC=476.71
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##   College.Enrollment..number.of.students. + General.Services.Route +
##   Y_COORDINATE + Latitude + Community.Area.Number + Ward
##
##                                     Df Sum of Sq    RSS
## - Latitude                         1      0.083 1209.2
## - Y_COORDINATE                     1      0.084 1209.2
## - Ward                             1      2.481 1211.6
## - ISAT.Value.Add.Read              1      5.219 1214.3
## <none>                             1      1209.1
## - General.Services.Route           1      5.860 1215.0
## - Instruction.Score                1      6.085 1215.2
## - Individualized.Education.Program.Compliance.Rate 1      6.646 1215.7
## - ISAT.Exceeding.Math..           1     10.834 1219.9
## - ISAT.Exceeding.Reading..        1     11.351 1220.4
## - Community.Area.Number           1     17.162 1226.2
## - Environment.Score               1     18.402 1227.5
## - College.Enrollment..number.of.students.         1     23.087 1232.2
## - ISAT.Value.Add.Math              1     27.497 1236.6
## - Safety.Score                    1     96.076 1305.2
## - Rate.of.Misconducts..per.100.students.          1    219.120 1428.2
##                                     AIC
## - Latitude                         474.74
## - Y_COORDINATE                     474.74
## - Ward                             475.61
## - ISAT.Value.Add.Read              476.59
## <none>                             476.71
## - General.Services.Route           476.82
## - Instruction.Score                476.90
## - Individualized.Education.Program.Compliance.Rate 477.10
## - ISAT.Exceeding.Math..           478.60
## - ISAT.Exceeding.Reading..        478.79
## - Community.Area.Number           480.86
## - Environment.Score               481.30
## - College.Enrollment..number.of.students.         482.96
## - ISAT.Value.Add.Math              484.52
## - Safety.Score                    508.05
## - Rate.of.Misconducts..per.100.students.          547.33

```

```

##
## Step: AIC=474.74
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##     Instruction.Score + Rate.of.Misconducts..per.100.students. +
##     Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##     ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##     College.Enrollment..number.of.students. + General.Services.Route +
##     Y_COORDINATE + Community.Area.Number + Ward
##
##
##              Df Sum of Sq    RSS
## - Y_COORDINATE      1      0.123 1209.3
## - Ward              1      2.841 1212.0
## - ISAT.Value.Add.Read      1      5.240 1214.4
## <none>                                1209.2
## - Instruction.Score      1      6.396 1215.6
## - Individualized.Education.Program.Compliance.Rate 1      6.564 1215.7
## - General.Services.Route      1      7.947 1217.1
## - ISAT.Exceeding.Math..      1     10.849 1220.0
## - ISAT.Exceeding.Reading..      1     11.335 1220.5
## - Environment.Score      1     18.660 1227.8
## - Community.Area.Number      1     21.271 1230.5
## - College.Enrollment..number.of.students.      1     23.860 1233.0
## - ISAT.Value.Add.Math      1     27.480 1236.7
## - Safety.Score      1     96.459 1305.6
## - Rate.of.Misconducts..per.100.students.      1    219.071 1428.2
##
##              AIC
## - Y_COORDINATE      472.79
## - Ward              473.77
## - ISAT.Value.Add.Read      474.63
## <none>              474.74
## - Instruction.Score      475.04
## - Individualized.Education.Program.Compliance.Rate 475.10
## - General.Services.Route      475.60
## - ISAT.Exceeding.Math..      476.64
## - ISAT.Exceeding.Reading..      476.81
## - Environment.Score      479.42
## - Community.Area.Number      480.35
## - College.Enrollment..number.of.students.      481.26
## - ISAT.Value.Add.Math      482.54
## - Safety.Score      506.21
## - Rate.of.Misconducts..per.100.students.      545.34
##
## Step: AIC=472.79
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##     Instruction.Score + Rate.of.Misconducts..per.100.students. +
##     Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##     ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##     College.Enrollment..number.of.students. + General.Services.Route +
##     Community.Area.Number + Ward
##
##
##              Df Sum of Sq    RSS
## - Ward      1      2.735 1212.0
## - ISAT.Value.Add.Read      1      5.310 1214.6
## <none>                                1209.3

```

```

## - Instruction.Score          1      6.380 1215.7
## - Individualized.Education.Program.Compliance.Rate 1      6.697 1216.0
## - ISAT.Exceeding.Math..     1     11.311 1220.6
## - ISAT.Exceeding.Reading..  1     11.657 1221.0
## - Environment.Score         1     18.667 1228.0
## - Community.Area.Number     1     22.599 1231.9
## - General.Services.Route     1     22.919 1232.2
## - College.Enrollment..number.of.students. 1     23.993 1233.3
## - ISAT.Value.Add.Math       1     27.663 1237.0
## - Safety.Score              1     96.599 1305.9
## - Rate.of.Misconducts..per.100.students. 1    220.418 1429.7
##                               AIC
## - Ward                      471.77
## - ISAT.Value.Add.Read       472.70
## <none>                       472.79
## - Instruction.Score         473.08
## - Individualized.Education.Program.Compliance.Rate 473.19
## - ISAT.Exceeding.Math..     474.85
## - ISAT.Exceeding.Reading..  474.97
## - Environment.Score         477.47
## - Community.Area.Number     478.86
## - General.Services.Route     478.97
## - College.Enrollment..number.of.students. 479.35
## - ISAT.Value.Add.Math       480.65
## - Safety.Score              504.29
## - Rate.of.Misconducts..per.100.students. 543.79
##
## Step:  AIC=471.77
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + ISAT.Value.Add.Read +
##   College.Enrollment..number.of.students. + General.Services.Route +
##   Community.Area.Number
##
##                               Df Sum of Sq    RSS
## - ISAT.Value.Add.Read       1      4.733 1216.8
## <none>                       1212.0
## - Individualized.Education.Program.Compliance.Rate 1      5.884 1217.9
## - Instruction.Score         1      5.927 1218.0
## - ISAT.Exceeding.Math..     1     12.047 1224.1
## - ISAT.Exceeding.Reading..  1     13.176 1225.2
## - Environment.Score         1     18.049 1230.1
## - Community.Area.Number     1     21.983 1234.0
## - College.Enrollment..number.of.students. 1     24.309 1236.3
## - ISAT.Value.Add.Math       1     28.738 1240.8
## - General.Services.Route     1     34.883 1246.9
## - Safety.Score              1     95.024 1307.1
## - Rate.of.Misconducts..per.100.students. 1    225.691 1437.7
##                               AIC
## - ISAT.Value.Add.Read       471.47
## <none>                       471.77
## - Individualized.Education.Program.Compliance.Rate 471.88
## - Instruction.Score         471.90

```

```

## - ISAT.Exceeding.Math..          474.08
## - ISAT.Exceeding.Reading..       474.49
## - Environment.Score              476.22
## - Community.Area.Number          477.61
## - College.Enrollment..number.of.students. 478.43
## - ISAT.Value.Add.Math            479.99
## - General.Services.Route          482.14
## - Safety.Score                   502.68
## - Rate.of.Misconducts..per.100.students. 544.22
##
## Step: AIC=471.47
## Average.Student.Attendance ~ Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + College.Enrollment..number.of.students. +
##   General.Services.Route + Community.Area.Number
##
##                                     Df Sum of Sq    RSS
## <none>                                     1216.8
## - Individualized.Education.Program.Compliance.Rate 1    6.182 1223.0
## - Instruction.Score                               1    6.370 1223.1
## - Environment.Score                               1   19.346 1236.1
## - ISAT.Exceeding.Math..                           1   19.621 1236.4
## - ISAT.Exceeding.Reading..                         1   21.040 1237.8
## - Community.Area.Number                           1   22.918 1239.7
## - College.Enrollment..number.of.students.          1   28.415 1245.2
## - General.Services.Route                           1   36.205 1253.0
## - ISAT.Value.Add.Math                             1   61.240 1278.0
## - Safety.Score                                     1  102.281 1319.0
## - Rate.of.Misconducts..per.100.students.           1  241.344 1458.1
##
##                                     AIC
## <none>                                     471.47
## - Individualized.Education.Program.Compliance.Rate 471.68
## - Instruction.Score                               471.75
## - Environment.Score                               476.35
## - ISAT.Exceeding.Math..                           476.45
## - ISAT.Exceeding.Reading..                         476.95
## - Community.Area.Number                           477.61
## - College.Enrollment..number.of.students.          479.54
## - General.Services.Route                           482.25
## - ISAT.Value.Add.Math                             490.88
## - Safety.Score                                     504.66
## - Rate.of.Misconducts..per.100.students.           548.36
##
## Call:
## lm(formula = Average.Student.Attendance ~ Safety.Score + Environment.Score +
##   Instruction.Score + Rate.of.Misconducts..per.100.students. +
##   Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
##   ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + College.Enrollment..number.of.students. +
##   General.Services.Route + Community.Area.Number, data = numeric.data)
##
## Coefficients:
##                                     (Intercept)

```

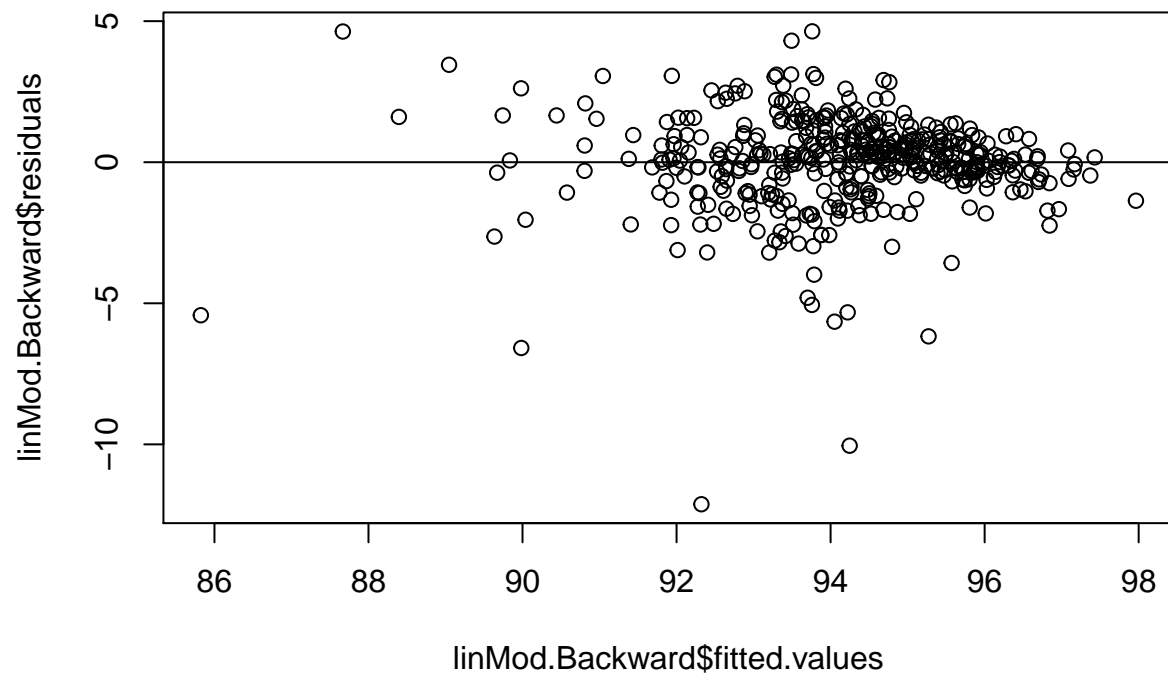
```

##              89.6387440
##              Safety.Score
##              0.0448024
##              Environment.Score
##              -0.0269126
##              Instruction.Score
##              0.0124159
##              Rate.of.Misconducts..per.100.students.
##              -0.0280177
## Individualized.Education.Program.Compliance.Rate
##              0.0587467
##              ISAT.Exceeding.Math..
##              -0.0419939
##              ISAT.Exceeding.Reading..
##              0.0472401
##              ISAT.Value.Add.Math
##              0.4105281
##              College.Enrollment..number.of.students.
##              0.0008665
##              General.Services.Route
##              -0.0850462
##              Community.Area.Number
##              0.0186150

linMod.Backward = lm(Average.Student.Attendance ~ Safety.Score + Environment.Score +
  Instruction.Score + Rate.of.Misconducts..per.100.students. +
  Individualized.Education.Program.Compliance.Rate + ISAT.Exceeding.Math.. +
  ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math + College.Enrollment..number.of.students. +
  General.Services.Route + Community.Area.Number, data = numeric.data)

plot(linMod.Backward$fitted.values, linMod.Backward$residuals)
abline(0,0)

```

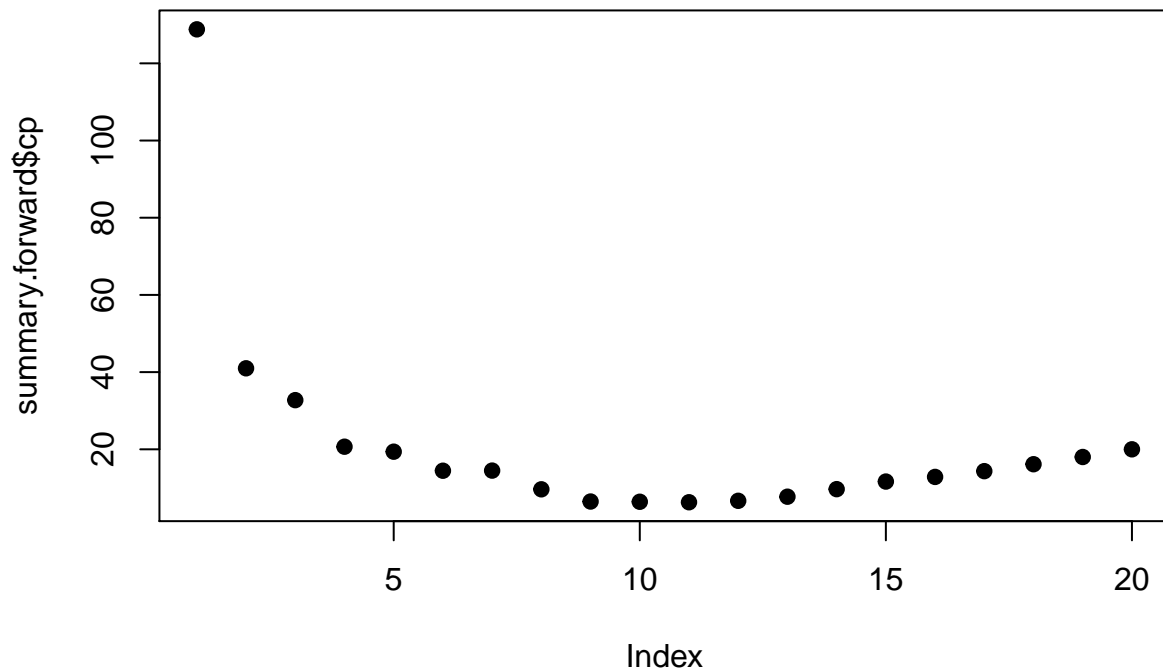


```
#Forward Selection
```

```
FW.linMod.SA <- regsubsets(Average.Student.Attendance~., data= numeric.data, nvmax= 20, method = "forward")
```

```
summary.forward = summary(BE.linMod.SA)
```

```
plot(summary.forward$cp, pch = 19)
```



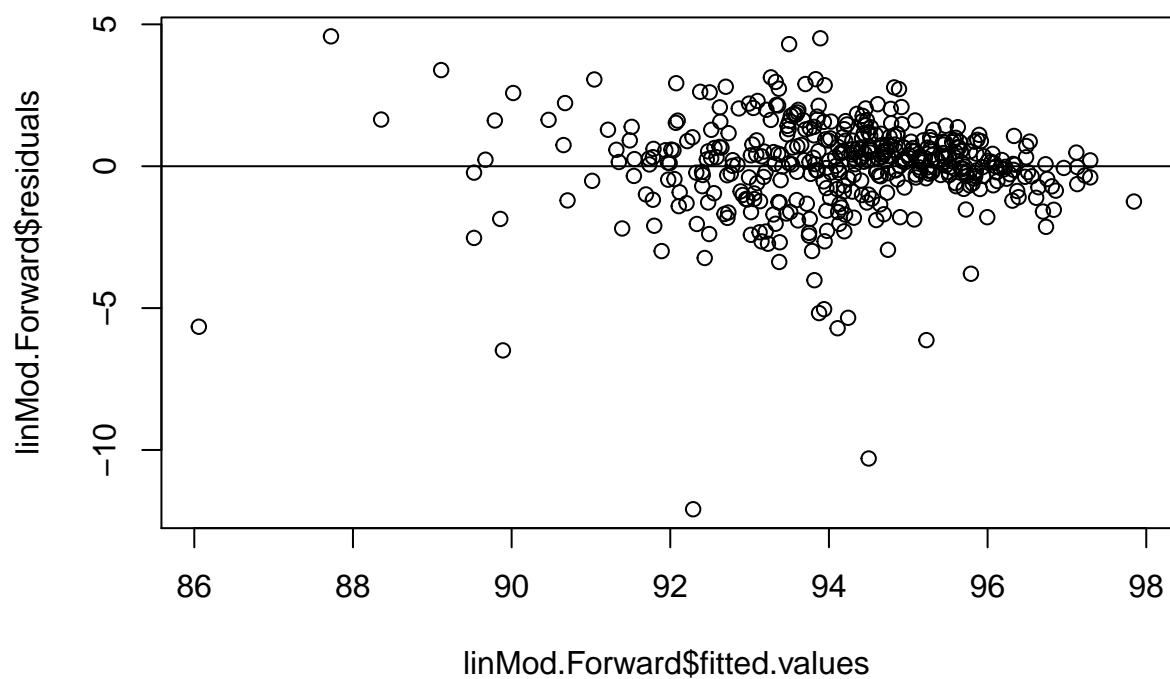
```
step(fullLinMod.SA, direction = "forward")
```

```
## Start: AIC=486.98
## Average.Student.Attendance ~ School.ID + ZIP.Code + Safety.Score +
## Environment.Score + Instruction.Score + Rate.of.Misconducts..per.100.students. +
## Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
## ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
## ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
## General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
## Longitude + Community.Area.Number + Ward + Police.District
##
## Call:
## lm(formula = Average.Student.Attendance ~ School.ID + ZIP.Code +
## Safety.Score + Environment.Score + Instruction.Score + Rate.of.Misconducts..per.100.students. +
## Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
## ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
## ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
## General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
## Longitude + Community.Area.Number + Ward + Police.District,
## data = numeric.data)
##
## Coefficients:
## (Intercept)
## -1.216e+05
## School.ID
## -4.073e-05
```

```
## ZIP.Code
## -3.012e-03
## Safety.Score
## 4.426e-02
## Environment.Score
## -2.676e-02
## Instruction.Score
## 1.217e-02
## Rate.of.Misconducts..per.100.students.
## -2.709e-02
## Average.Teacher.Attendance
## -3.719e-03
## Individualized.Education.Program.Compliance.Rate
## 6.151e-02
## ISAT.Exceeding.Math..
## -3.270e-02
## ISAT.Exceeding.Reading..
## 3.676e-02
## ISAT.Value.Add.Math
## 3.255e-01
## ISAT.Value.Add.Read
## 1.369e-01
## College.Enrollment..number.of.students.
## 8.091e-04
## General.Services.Route
## -8.539e-02
## X_COORDINATE
## 1.164e-04
## Y_COORDINATE
## -9.030e-03
## Latitude
## 3.289e+03
## Longitude
## -1.332e+01
## Community.Area.Number
## 1.669e-02
## Ward
## 7.069e-03
## Police.District
## 6.789e-03
```

```
linMod.Forward <- lm(formula = Average.Student.Attendance ~ School.ID + ZIP.Code +
  Safety.Score + Environment.Score + Instruction.Score + Rate.of.Misconducts..per.100.students. +
  Average.Teacher.Attendance + Individualized.Education.Program.Compliance.Rate +
  ISAT.Exceeding.Math.. + ISAT.Exceeding.Reading.. + ISAT.Value.Add.Math +
  ISAT.Value.Add.Read + College.Enrollment..number.of.students. +
  General.Services.Route + X_COORDINATE + Y_COORDINATE + Latitude +
  Longitude + Community.Area.Number + Ward + Police.District,
  data = numeric.data)

plot(linMod.Forward$fitted.values, linMod.Forward$residuals)
abline(0, 0)
```

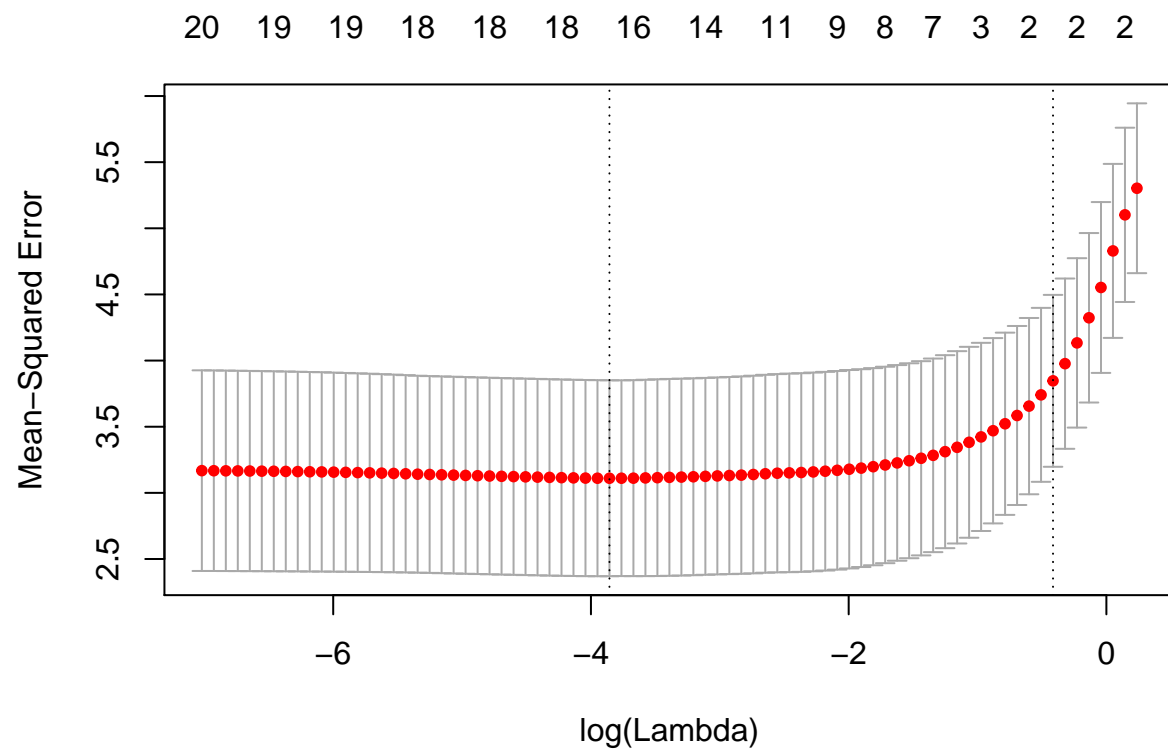



#Lasso Regression

```
modMatrix <- model.matrix(Average.Student.Attendance~., data= numeric.data)
```

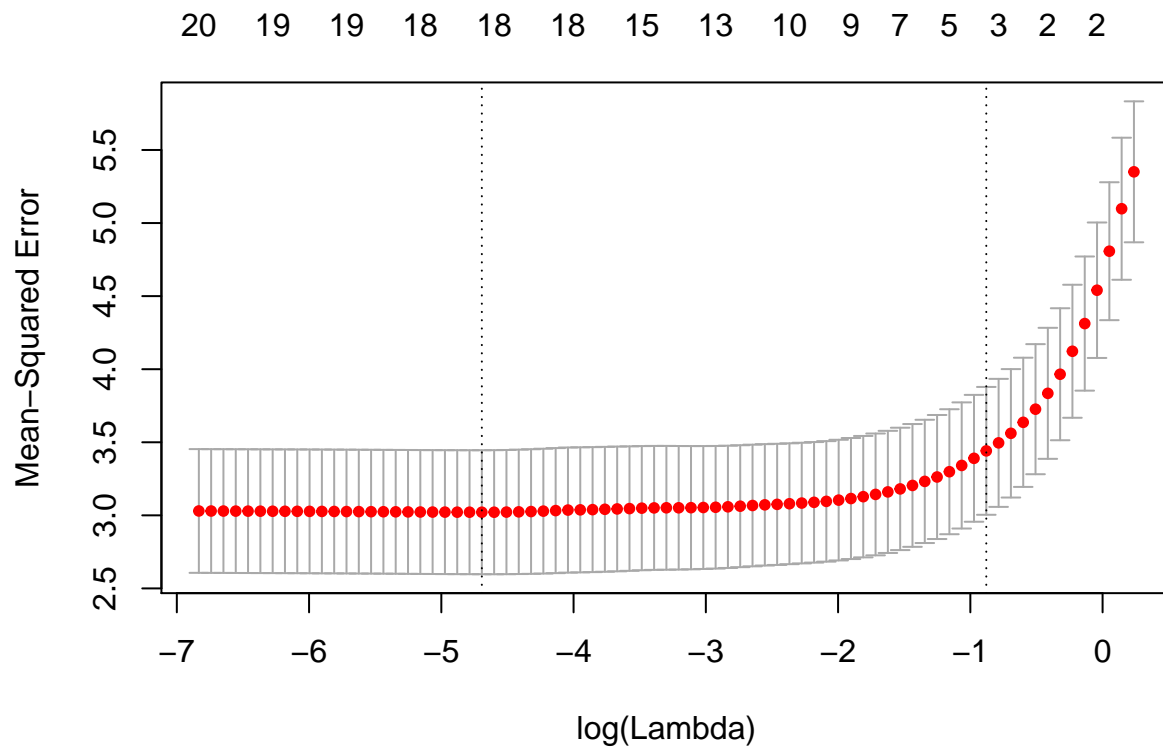
```
lassoMod = cv.glmnet(modMatrix, y = na.omit(numeric.data)$Average.Student.Attendance, alpha = 1, nfolds
```

```
plot(lassoMod)
```



```
#Ridge Regression
```

```
ridgeMod = cv.glmnet(modMatrix, y = na.omit(numeric.data)$Average.Student.Attendance, alpha = 1, nfolds  
plot(ridgeMod)
```



Classification for School Grade-level

```
#Function that removes collinearity for data
remove.collinearity <- function(data, c) {
  #Correlation of all Variables
  correlation.matrix <- cor(data, use = "complete.obs")
  correlation.dataset <- as.data.frame(correlation.matrix)
  most.correlation <- which(abs(correlation.matrix) < 1 & abs(correlation.matrix) > c)

  rows.list <- list()
  columns.list <- list()
  j <- 1
  #For Loop for finding maximum correlations
  for(i in most.correlation) {
    #Correlation
    row <- ceiling(i/ncol(data))
    column <- ifelse(i%ncol(data) == 0, ncol(data), i%ncol(data))
    rows.list[[j]] <- rownames(correlation.dataset)[row,]
    columns.list[[j]] <- names(correlation.dataset)[column]
    j = j+1
  }

  row.column.names = cbind(rows.list, columns.list)
}
```

```

#New Dataframe To hold Rows/ Columns
row.column.dataframe <- data.frame(
  row = NULL,
  column = NULL
)
#putting values in dataframe
for(i in 1:length(rows.list)) {
  newRow = data.frame(row = rows.list[[i]], column = columns.list[[i]])
  row.column.dataframe <- rbind(row.column.dataframe, newRow)
}

#Changing variable types to character
row.column.dataframe$row <- as.character(row.column.dataframe$row)
row.column.dataframe$column <- as.character(row.column.dataframe$column)

#Removing Duplicates
for (i in 1:nrow(row.column.dataframe))
{
  row.column.dataframe[i, ] = sort(row.column.dataframe[i, ])
}
row.column.dataframe <- row.column.dataframe[!duplicated(row.column.dataframe),]

#Dataframe of Variables with the most Correlation
table <- row.column.dataframe

#creates new dataframe without correlations above c
new.data = data
for(i in 1:nrow(table)) {
  new.data[,table[i,2]] <- NULL
}
return(new.data)
}

```

```

newdata = numeric.data %>%
  select_if(Negate(is.integer)) %>%
  select_if(is.numeric)

newdata <- remove.collinearity(newdata, .1)
newdata

```

##	Average.Student.Attendance	Average.Teacher.Attendance
## 1	96.0	96.4
## 2	95.6	95.3
## 3	95.7	94.7
## 4	95.5	95.8
## 5	93.3	96.9
## 6	97.0	96.9
## 7	96.3	96.2
## 8	94.7	95.0
## 9	92.7	96.9
## 10	96.4	95.9
## 11	96.3	95.9
## 12	92.5	95.0
## 13	95.3	97.4

## 14	92.5	96.0
## 15	94.9	94.7
## 16	90.1	94.2
## 17	94.6	95.2
## 18	95.6	95.0
## 19	80.3	95.1
## 20	96.9	96.6
## 21	96.3	95.4
## 22	94.3	96.0
## 23	91.4	95.5
## 24	95.4	95.6
## 25	94.6	94.4
## 26	97.4	96.1
## 27	91.8	95.4
## 28	97.5	96.5
## 29	94.6	95.6
## 30	90.5	94.9
## 31	95.5	96.0
## 32	94.2	95.8
## 33	92.8	95.2
## 34	90.8	95.1
## 35	94.8	95.6
## 36	96.1	96.1
## 37	87.9	93.4
## 38	92.1	95.3
## 39	95.5	97.1
## 40	96.5	95.0
## 41	76.0	0.0
## 42	90.5	94.1
## 43	70.1	95.2
## 44	92.1	96.4
## 45	60.9	95.5
## 46	95.3	96.8
## 47	83.7	95.8
## 48	91.3	93.9
## 49	95.5	96.6
## 50	93.0	96.3
## 51	88.9	93.9
## 52	94.7	94.8
## 53	80.2	94.8
## 54	94.2	95.4
## 55	90.6	95.0
## 56	96.3	95.9
## 57	92.3	95.6
## 58	95.5	96.9
## 59	94.9	94.9
## 60	96.5	96.9
## 61	81.2	96.0
## 62	95.8	96.3
## 63	91.7	94.3
## 64	94.8	95.6
## 65	91.9	94.7
## 66	95.1	96.1
## 67	86.0	94.4

## 68	94.4	94.7
## 69	95.7	95.6
## 70	95.3	95.2
## 71	93.4	93.4
## 72	92.0	94.4
## 73	94.9	96.0
## 74	92.7	94.7
## 75	79.2	96.2
## 76	95.6	96.2
## 77	89.2	93.6
## 78	92.8	95.5
## 79	93.8	97.1
## 80	93.9	96.9
## 81	93.8	94.6
## 82	96.3	96.1
## 83	93.1	96.1
## 84	92.8	95.2
## 85	90.3	95.6
## 86	68.8	94.6
## 87	95.9	95.2
## 88	74.4	95.4
## 89	95.5	96.9
## 90	91.7	96.4
## 91	92.5	96.2
## 92	91.4	96.6
## 93	95.4	97.1
## 94	94.1	96.3
## 95	95.2	93.5
## 96	92.5	96.7
## 97	95.9	95.9
## 98	95.5	95.4
## 99	91.9	94.3
## 100	91.3	96.7
## 101	94.7	97.2
## 102	92.6	96.2
## 103	91.6	95.9
## 104	94.8	97.2
## 105	86.1	95.2
## 106	96.7	94.5
## 107	90.7	95.5
## 108	95.3	95.4
## 109	97.3	96.5
## 110	93.4	94.8
## 111	95.1	94.3
## 112	94.7	96.9
## 113	92.9	96.3
## 114	92.5	95.6
## 115	94.6	96.4
## 116	95.4	95.8
## 117	94.2	95.4
## 118	62.5	93.5
## 119	97.6	97.2
## 120	96.9	96.6
## 121	96.1	96.6

## 122	89.3	95.5
## 123	92.9	95.9
## 124	95.0	94.7
## 125	93.4	94.7
## 126	95.1	95.0
## 127	95.3	97.7
## 128	88.9	94.8
## 129	93.3	97.3
## 130	95.4	94.9
## 131	78.4	95.2
## 132	93.8	96.7
## 133	84.3	94.8
## 134	91.6	96.0
## 135	89.7	97.0
## 136	95.8	95.2
## 137	95.6	96.2
## 138	95.2	97.0
## 139	95.1	96.7
## 140	94.3	95.4
## 141	90.6	95.7
## 142	95.5	97.7
## 143	84.8	95.4
## 144	96.6	96.8
## 145	88.0	93.3
## 146	89.9	95.4
## 147	95.8	97.2
## 148	92.2	0.0
## 149	95.4	96.0
## 150	92.9	95.7
## 151	96.8	96.7
## 152	95.9	96.2
## 153	96.1	97.4
## 154	93.4	93.3
## 155	96.8	0.0
## 156	80.0	95.6
## 157	96.3	97.2
## 158	93.4	96.1
## 159	90.0	95.2
## 160	95.6	95.8
## 161	93.4	95.9
## 162	93.7	94.7
## 163	95.1	97.0
## 164	93.5	95.1
## 165	90.6	95.3
## 166	91.9	94.0
## 167	91.9	94.9
## 168	92.5	95.9
## 169	91.9	96.3
## 170	95.9	95.3
## 171	96.6	96.0
## 172	97.0	96.7
## 173	95.8	97.0
## 174	96.8	96.6
## 175	96.9	96.0

## 176	79.2	94.7
## 177	94.7	95.4
## 178	72.4	95.7
## 179	94.7	94.7
## 180	87.0	95.6
## 181	72.5	94.0
## 182	95.0	97.0
## 183	92.0	94.8
## 184	92.1	96.0
## 185	96.3	96.3
## 186	93.2	96.0
## 187	96.3	95.8
## 188	94.4	95.1
## 189	71.3	95.2
## 190	92.6	94.9
## 191	91.0	94.8
## 192	93.5	96.2
## 193	93.9	96.4
## 194	91.6	96.4
## 195	90.9	94.7
## 196	95.5	95.9
## 197	80.2	95.1
## 198	93.8	98.1
## 199	93.6	96.8
## 200	91.4	95.1
## 201	95.9	95.6
## 202	95.2	96.1
## 203	91.9	95.2
## 204	87.5	95.1
## 205	95.0	96.3
## 206	91.5	96.5
## 207	89.3	96.4
## 208	87.1	95.2
## 209	95.8	95.7
## 210	95.0	94.9
## 211	96.1	96.2
## 212	93.8	94.7
## 213	96.2	96.6
## 214	96.9	96.5
## 215	93.8	95.9
## 216	96.7	95.8
## 217	96.2	94.6
## 218	95.2	96.1
## 219	96.2	97.2
## 220	95.1	95.8
## 221	91.8	95.6
## 222	95.1	96.9
## 223	72.0	95.2
## 224	95.0	96.2
## 225	72.2	94.3
## 226	95.9	96.0
## 227	92.6	94.5
## 228	91.9	96.4
## 229	70.5	94.2

## 230	92.9	95.9
## 231	93.2	92.8
## 232	92.1	95.2
## 233	92.2	96.0
## 234	96.2	96.2
## 235	92.9	96.3
## 236	95.5	96.2
## 237	95.5	95.0
## 238	91.1	94.3
## 239	92.1	94.6
## 240	90.5	93.8
## 241	95.4	96.6
## 242	87.6	95.5
## 243	94.2	95.6
## 244	96.5	96.3
## 245	96.2	94.3
## 246	96.4	96.0
## 247	95.4	96.5
## 248	94.9	97.7
## 249	95.1	95.8
## 250	91.8	95.9
## 251	95.5	96.5
## 252	91.4	94.7
## 253	93.2	95.7
## 254	97.0	97.0
## 255	92.2	95.5
## 256	97.8	96.9
## 257	94.7	97.5
## 258	96.0	96.8
## 259	88.9	94.6
## 260	95.7	96.3
## 261	94.1	96.3
## 262	93.1	95.3
## 263	91.3	93.5
## 264	92.0	95.5
## 265	95.8	97.0
## 266	95.1	95.3
## 267	95.1	96.1
## 268	93.8	95.9
## 269	95.6	96.3
## 270	95.9	96.5
## 271	95.6	96.1
## 272	95.9	96.5
## 273	95.6	96.7
## 274	98.4	96.2
## 275	93.2	96.3
## 276	95.3	95.6
## 277	92.9	91.7
## 278	83.0	94.7
## 279	94.1	97.3
## 280	94.9	96.5
## 281	78.2	95.9
## 282	93.0	96.0
## 283	92.9	97.1

## 284	94.4	95.7
## 285	95.4	95.3
## 286	97.2	96.2
## 287	96.2	96.7
## 288	95.5	96.7
## 289	95.7	95.5
## 290	74.1	95.8
## 291	81.2	94.4
## 292	95.2	94.6
## 293	92.4	93.3
## 294	95.9	95.4
## 295	96.3	94.8
## 296	91.9	95.5
## 297	96.2	97.4
## 298	94.0	94.8
## 299	93.5	95.4
## 300	94.0	94.0
## 301	95.3	96.5
## 302	92.4	97.0
## 303	95.9	96.9
## 304	95.9	95.3
## 305	95.6	95.1
## 306	95.0	96.8
## 307	95.8	97.0
## 308	96.5	97.7
## 309	96.1	96.2
## 310	95.5	95.1
## 311	96.4	96.3
## 312	95.2	95.8
## 313	95.4	95.4
## 314	94.9	95.3
## 315	95.0	95.3
## 316	94.8	96.0
## 317	95.8	96.4
## 318	96.0	96.9
## 319	90.5	95.5
## 320	96.0	97.1
## 321	83.4	94.4
## 322	96.3	95.4
## 323	74.4	94.5
## 324	88.4	95.3
## 325	87.7	96.2
## 326	90.0	95.5
## 327	96.8	97.6
## 328	95.1	94.8
## 329	96.1	97.0
## 330	92.9	97.5
## 331	91.0	94.8
## 332	96.3	98.5
## 333	94.7	95.1
## 334	97.4	97.8
## 335	91.8	95.3
## 336	84.6	96.0
## 337	95.0	96.6

## 338	96.7	96.7
## 339	95.1	95.6
## 340	94.7	97.7
## 341	95.2	96.8
## 342	96.6	97.1
## 343	92.6	97.9
## 344	95.5	95.9
## 345	95.0	95.8
## 346	93.7	94.7
## 347	89.2	94.6
## 348	95.2	95.5
## 349	95.4	95.7
## 350	94.3	95.2
## 351	92.5	94.6
## 352	95.8	96.9
## 353	66.8	95.4
## 354	95.9	96.6
## 355	94.0	96.0
## 356	95.5	0.0
## 357	96.8	96.9
## 358	85.0	95.0
## 359	91.3	95.3
## 360	96.8	97.0
## 361	97.1	94.9
## 362	96.3	97.8
## 363	93.1	95.3
## 364	93.9	96.7
## 365	95.5	96.8
## 366	95.1	0.0
## 367	94.9	94.2
## 368	95.5	96.1
## 369	95.5	96.7
## 370	95.9	97.0
## 371	94.4	97.1
## 372	93.3	97.6
## 373	90.4	0.0
## 374	90.9	95.7
## 375	95.1	96.3
## 376	94.9	96.1
## 377	91.8	93.9
## 378	93.3	94.6
## 379	94.6	95.8
## 380	79.1	95.4
## 381	91.5	95.0
## 382	91.3	95.0
## 383	95.7	96.2
## 384	91.4	95.7
## 385	84.2	94.6
## 386	93.6	97.1
## 387	80.4	93.5
## 388	96.0	96.1
## 389	93.3	94.1
## 390	89.2	96.7
## 391	92.1	96.4

## 392	95.5	96.2
## 393	94.5	96.2
## 394	91.6	95.8
## 395	92.9	95.6
## 396	95.1	95.9
## 397	94.7	96.3
## 398	78.6	94.3
## 399	80.2	94.8
## 400	96.2	95.6
## 401	75.6	94.7
## 402	96.2	96.7
## 403	81.7	96.4
## 404	93.4	97.0
## 405	93.9	95.0
## 406	95.6	96.6
## 407	88.6	95.6
## 408	95.6	96.0
## 409	95.7	96.8
## 410	74.6	94.2
## 411	89.8	95.6
## 412	93.4	95.1
## 413	95.5	95.6
## 414	94.2	0.0
## 415	96.4	95.8
## 416	92.6	94.8
## 417	87.0	92.4
## 418	96.5	95.5
## 419	97.6	96.4
## 420	66.3	95.0
## 421	92.2	95.3
## 422	92.7	95.6
## 423	95.0	95.2
## 424	92.0	95.9
## 425	94.9	96.3
## 426	89.8	94.9
## 427	95.1	95.9
## 428	93.6	95.4
## 429	76.9	96.0
## 430	92.4	94.6
## 431	73.5	94.7
## 432	92.1	96.4
## 433	96.2	97.6
## 434	95.8	95.7
## 435	96.2	96.3
## 436	96.4	95.1
## 437	93.9	95.8
## 438	95.6	95.9
## 439	92.1	95.8
## 440	92.1	97.4
## 441	96.0	96.7
## 442	94.2	95.9
## 443	96.1	96.2
## 444	97.6	97.7
## 445	94.9	95.5

## 446	94.9	95.7
## 447	86.3	94.3
## 448	95.3	96.8
## 449	95.0	95.3
## 450	94.9	96.0
## 451	94.4	96.9
## 452	57.9	93.9
## 453	93.7	96.2
## 454	81.1	95.9
## 455	96.0	93.7
## 456	89.8	94.8
## 457	95.1	96.8
## 458	96.6	97.1
## 459	90.7	95.3
## 460	95.2	95.6
## 461	92.7	95.9
## 462	94.4	94.8
## 463	69.6	94.2
## 464	94.8	96.2
## 465	81.6	95.8
## 466	93.8	96.3
## 467	90.7	96.5
## 468	96.3	96.9
## 469	92.4	95.0
## 470	94.7	96.0
## 471	95.1	95.8
## 472	95.1	96.6
## 473	95.4	95.8
## 474	93.6	96.0
## 475	96.3	95.4
## 476	95.0	94.6
## 477	93.9	95.7
## 478	96.8	96.4
## 479	90.9	93.1
## 480	93.0	94.5
## 481	96.4	97.8
## 482	95.8	96.5
## 483	89.5	95.4
## 484	95.3	97.2
## 485	93.6	96.3
## 486	85.5	95.2
## 487	92.5	96.0
## 488	95.6	95.7
## 489	96.2	95.4
## 490	92.1	95.2
## 491	95.6	96.0
## 492	87.6	96.5
## 493	96.4	96.0
## 494	96.6	95.7
## 495	96.2	95.5
## 496	95.9	96.6
## 497	87.3	96.5
## 498	95.4	94.7
## 499	90.8	97.0

## 500	82.3	96.1
## 501	92.1	96.3
## 502	96.6	96.3
## 503	91.2	95.6
## 504	94.4	97.3
## 505	95.2	96.7
## 506	94.8	95.4
## 507	95.2	95.2
## 508	96.1	95.1
## 509	89.3	95.3
## 510	94.0	96.0
## 511	95.8	95.2
## 512	88.7	95.9
## 513	NA	95.6
## 514	92.8	96.2
## 515	95.5	96.4
## 516	84.5	96.5
## 517	96.4	96.4
## 518	95.1	96.3
## 519	93.4	96.1
## 520	95.5	95.0
## 521	92.4	93.2
## 522	86.1	94.1
## 523	95.5	97.2
## 524	95.6	95.9
## 525	74.1	96.2
## 526	93.9	95.7
## 527	63.0	96.1
## 528	92.1	94.1
## 529	93.7	96.7
## 530	91.2	93.8
## 531	94.9	0.0
## 532	94.6	94.9
## 533	96.2	95.7
## 534	94.9	96.4
## 535	91.7	95.1
## 536	96.9	95.0
## 537	95.1	97.0
## 538	96.1	95.8
## 539	93.5	94.8
## 540	93.3	94.4
## 541	95.5	95.9
## 542	95.2	96.9
## 543	96.5	96.9
## 544	92.8	94.7
## 545	92.4	95.1
## 546	89.1	96.1
## 547	93.5	97.6
## 548	95.1	94.9
## 549	93.0	94.3
## 550	95.7	95.7
## 551	75.2	94.3
## 552	95.3	95.2
## 553	95.7	96.1

## 554	93.8	95.3
## 555	90.3	94.0
## 556	91.8	95.2
## 557	95.6	95.9
## 558	95.6	95.8
## 559	73.0	94.7
## 560	91.6	95.9
## 561	93.3	92.4
## 562	92.3	95.0
## 563	91.2	95.9
## 564	95.2	96.4
## 565	93.9	94.3
## 566	91.6	96.0
##	Individualized.Education.Program.Compliance.Rate	
## 1		95.8
## 2		100.0
## 3		98.3
## 4		100.0
## 5		100.0
## 6		100.0
## 7		99.4
## 8		100.0
## 9		100.0
## 10		100.0
## 11		99.3
## 12		92.1
## 13		97.4
## 14		100.0
## 15		94.7
## 16		96.4
## 17		100.0
## 18		100.0
## 19		100.0
## 20		100.0
## 21		100.0
## 22		100.0
## 23		100.0
## 24		100.0
## 25		100.0
## 26		100.0
## 27		100.0
## 28		100.0
## 29		98.5
## 30		100.0
## 31		100.0
## 32		100.0
## 33		98.9
## 34		100.0
## 35		100.0
## 36		99.1
## 37		100.0
## 38		95.6
## 39		100.0
## 40		97.9

## 41	98.2
## 42	100.0
## 43	98.6
## 44	97.7
## 45	100.0
## 46	98.9
## 47	99.5
## 48	100.0
## 49	100.0
## 50	98.5
## 51	97.9
## 52	100.0
## 53	100.0
## 54	98.5
## 55	92.9
## 56	100.0
## 57	97.6
## 58	96.0
## 59	100.0
## 60	100.0
## 61	98.9
## 62	100.0
## 63	96.9
## 64	100.0
## 65	98.4
## 66	100.0
## 67	99.4
## 68	100.0
## 69	99.5
## 70	92.0
## 71	100.0
## 72	100.0
## 73	100.0
## 74	100.0
## 75	99.6
## 76	100.0
## 77	100.0
## 78	100.0
## 79	100.0
## 80	100.0
## 81	100.0
## 82	100.0
## 83	97.1
## 84	96.8
## 85	100.0
## 86	99.1
## 87	97.0
## 88	100.0
## 89	92.6
## 90	100.0
## 91	100.0
## 92	98.7
## 93	100.0
## 94	100.0

## 95	100.0
## 96	100.0
## 97	100.0
## 98	97.6
## 99	100.0
## 100	100.0
## 101	100.0
## 102	98.4
## 103	96.2
## 104	100.0
## 105	99.6
## 106	100.0
## 107	100.0
## 108	100.0
## 109	100.0
## 110	97.3
## 111	100.0
## 112	100.0
## 113	100.0
## 114	98.1
## 115	100.0
## 116	100.0
## 117	100.0
## 118	100.0
## 119	100.0
## 120	100.0
## 121	98.6
## 122	96.7
## 123	98.3
## 124	100.0
## 125	94.7
## 126	98.7
## 127	93.8
## 128	98.7
## 129	98.9
## 130	96.6
## 131	100.0
## 132	100.0
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## 134	100.0
## 135	100.0
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## 137	96.0
## 138	100.0
## 139	98.9
## 140	100.0
## 141	100.0
## 142	100.0
## 143	88.0
## 144	100.0
## 145	90.5
## 146	100.0
## 147	100.0
## 148	100.0

## 149	98.5
## 150	100.0
## 151	100.0
## 152	93.8
## 153	100.0
## 154	98.6
## 155	100.0
## 156	100.0
## 157	96.9
## 158	100.0
## 159	100.0
## 160	99.4
## 161	100.0
## 162	97.1
## 163	100.0
## 164	100.0
## 165	100.0
## 166	100.0
## 167	98.6
## 168	100.0
## 169	98.8
## 170	100.0
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## 176	100.0
## 177	100.0
## 178	100.0
## 179	100.0
## 180	99.2
## 181	99.1
## 182	100.0
## 183	96.8
## 184	94.5
## 185	99.4
## 186	98.6
## 187	98.8
## 188	98.9
## 189	98.5
## 190	100.0
## 191	100.0
## 192	100.0
## 193	100.0
## 194	100.0
## 195	100.0
## 196	99.0
## 197	99.5
## 198	97.9
## 199	100.0
## 200	100.0
## 201	100.0
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## 203	100.0
## 204	95.6
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## 206	100.0
## 207	100.0
## 208	100.0
## 209	99.0
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## 211	100.0
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## 214	100.0
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## 216	100.0
## 217	100.0
## 218	100.0
## 219	97.0
## 220	100.0
## 221	98.0
## 222	94.8
## 223	100.0
## 224	98.6
## 225	99.1
## 226	100.0
## 227	100.0
## 228	98.2
## 229	100.0
## 230	100.0
## 231	100.0
## 232	100.0
## 233	85.4
## 234	100.0
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## 236	100.0
## 237	95.2
## 238	94.4
## 239	100.0
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## 245	100.0
## 246	88.4
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## 248	100.0
## 249	98.1
## 250	100.0
## 251	100.0
## 252	97.7
## 253	100.0
## 254	99.6
## 255	100.0
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## 257	100.0
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## 259	100.0
## 260	98.4
## 261	98.6
## 262	100.0
## 263	100.0
## 264	100.0
## 265	99.1
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## 267	97.7
## 268	100.0
## 269	100.0
## 270	98.1
## 271	100.0
## 272	100.0
## 273	96.2
## 274	96.9
## 275	86.9
## 276	100.0
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## 278	99.3
## 279	100.0
## 280	100.0
## 281	100.0
## 282	97.8
## 283	100.0
## 284	100.0
## 285	99.1
## 286	100.0
## 287	98.6
## 288	100.0
## 289	99.1
## 290	100.0
## 291	95.7
## 292	100.0
## 293	100.0
## 294	100.0
## 295	99.2
## 296	100.0
## 297	99.0
## 298	98.1
## 299	100.0
## 300	100.0
## 301	97.3
## 302	100.0
## 303	100.0
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## 305	100.0
## 306	100.0
## 307	99.0
## 308	96.7
## 309	100.0
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## 311	93.8
## 312	100.0
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## 314	100.0
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## 321	100.0
## 322	91.8
## 323	99.5
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## 341	98.1
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## 358	100.0
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## 360	95.9
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## 372	98.0
## 373	72.7
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## 387	100.0
## 388	98.5
## 389	100.0
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## 392	98.6
## 393	96.5
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## 397	100.0
## 398	100.0
## 399	98.1
## 400	99.0
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## 408	100.0
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## 421	100.0
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## 423	100.0
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## 425	100.0
## 426	100.0
## 427	100.0
## 428	98.5
## 429	98.0
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## 431	97.6
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## 438	100.0
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## 446	100.0
## 447	100.0
## 448	96.1
## 449	96.1
## 450	98.4
## 451	100.0
## 452	99.1
## 453	98.6
## 454	99.2
## 455	100.0
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## 457	100.0
## 458	99.1
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## 460	100.0
## 461	100.0
## 462	100.0
## 463	99.6
## 464	100.0
## 465	94.4
## 466	98.1
## 467	100.0
## 468	100.0
## 469	94.5
## 470	97.8
## 471	100.0
## 472	98.6

## 473	98.6
## 474	100.0
## 475	92.9
## 476	97.7
## 477	98.9
## 478	100.0
## 479	100.0
## 480	100.0
## 481	100.0
## 482	98.9
## 483	100.0
## 484	100.0
## 485	100.0
## 486	100.0
## 487	100.0
## 488	100.0
## 489	100.0
## 490	100.0
## 491	99.3
## 492	97.9
## 493	100.0
## 494	100.0
## 495	100.0
## 496	100.0
## 497	100.0
## 498	96.4
## 499	96.0
## 500	100.0
## 501	100.0
## 502	100.0
## 503	100.0
## 504	100.0
## 505	97.5
## 506	100.0
## 507	100.0
## 508	100.0
## 509	99.7
## 510	97.2
## 511	100.0
## 512	98.3
## 513	100.0
## 514	100.0
## 515	100.0
## 516	100.0
## 517	100.0
## 518	100.0
## 519	100.0
## 520	100.0
## 521	100.0
## 522	100.0
## 523	96.6
## 524	89.0
## 525	96.7
## 526	100.0


```

## 527      100.0
## 528      95.2
## 529      100.0
## 530      100.0
## 531      100.0
## 532      100.0
## 533      92.3
## 534      100.0
## 535      100.0
## 536      100.0
## 537      100.0
## 538      100.0
## 539      98.2
## 540      100.0
## 541      100.0
## 542      100.0
## 543      99.3
## 544      100.0
## 545      100.0
## 546      99.7
## 547      95.0
## 548      98.8
## 549      96.4
## 550      100.0
## 551      99.6
## 552      100.0
## 553      98.8
## 554      100.0
## 555      97.8
## 556      92.9
## 557      99.4
## 558      100.0
## 559      100.0
## 560      100.0
## 561      96.8
## 562      100.0
## 563      100.0
## 564      100.0
## 565      100.0
## 566      100.0

newdata <- cbind(numeric.data, CPS.data$Elementary..Middle..or.High.School)
newdata$Elementary..Middle..or.High.School <- newdata$`CPS.data$Elementary..Middle..or.High.School`
newdata$`CPS.data$Elementary..Middle..or.High.School` <- NULL

ldaMod <- lda(Elementary..Middle..or.High.School~., data = newdata)

## Warning in lda.default(x, grouping, ...): variables are collinear
# Jason's section

```