Stat101 Homework Report for Section C and Unit 2

Overview

The 3 homework outcome files are Topic06.C.csv, Topic07.C.csv, Topic08.C.csv.

There are 50 students in Section C submitting their answers. 50 of them did all the homeworks. Since different homeworks have different full scores, the percentages correct are used to compare among homeworks. The average correct percents for the 3 homeworks are 82, 88, 70, respectively. Figure 1 compares the histograms of those homeworks. Table 1 and Figure 2 display the basic summaries of the scores.

	Mean	Std.dev	Min	Median	Max
Topic06	81.52	21.71	0.00	90.00	100.00
Topic07	88.48	11.81	36.00	92.00	100.00
Topic08	69.91	20.96	9.09	72.73	100.00

Table 1: Summary statistics for correct percentage. Topic07 has the highest mean correct percentage, while Topic08 has the lowest. Topic06 has the largest standard deviation, and Topic07 has the smallest.

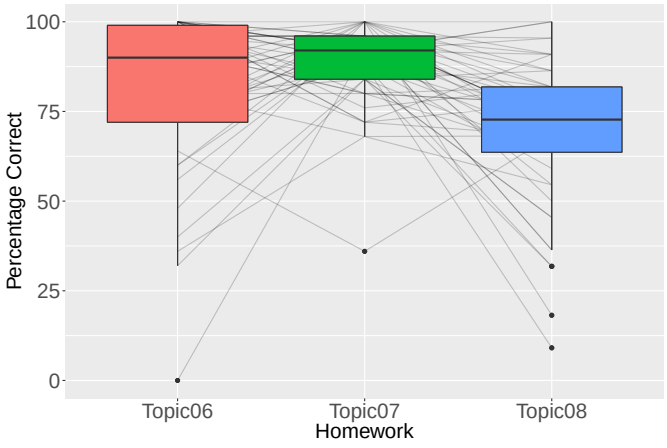

Figure 2: Side-by-side boxplots of the percentages correct by students homeworks. Topic07 has the highest median, while Topic08 has the lowest median.

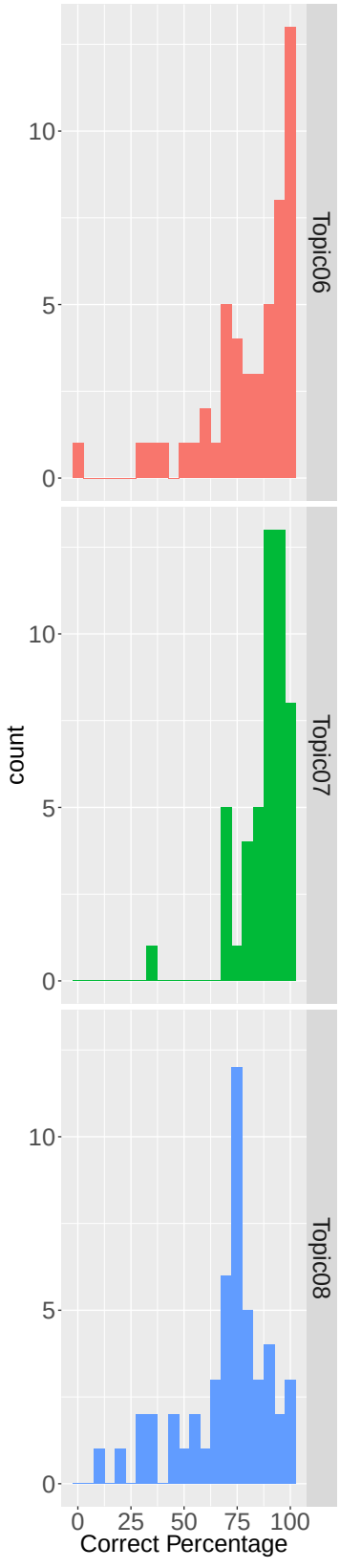

Figure 1: Histograms of the percentages correct by students homeworks.

Students

Figure 3 and Table 2 give the percentage scores of each homework of all homeworks for every student in this section. Table 2 also provides the mean percentages by student. The students are sorted by their average percentage score of 3 homeworks. Table 3 lists the students who were in the lower 20% of the class.

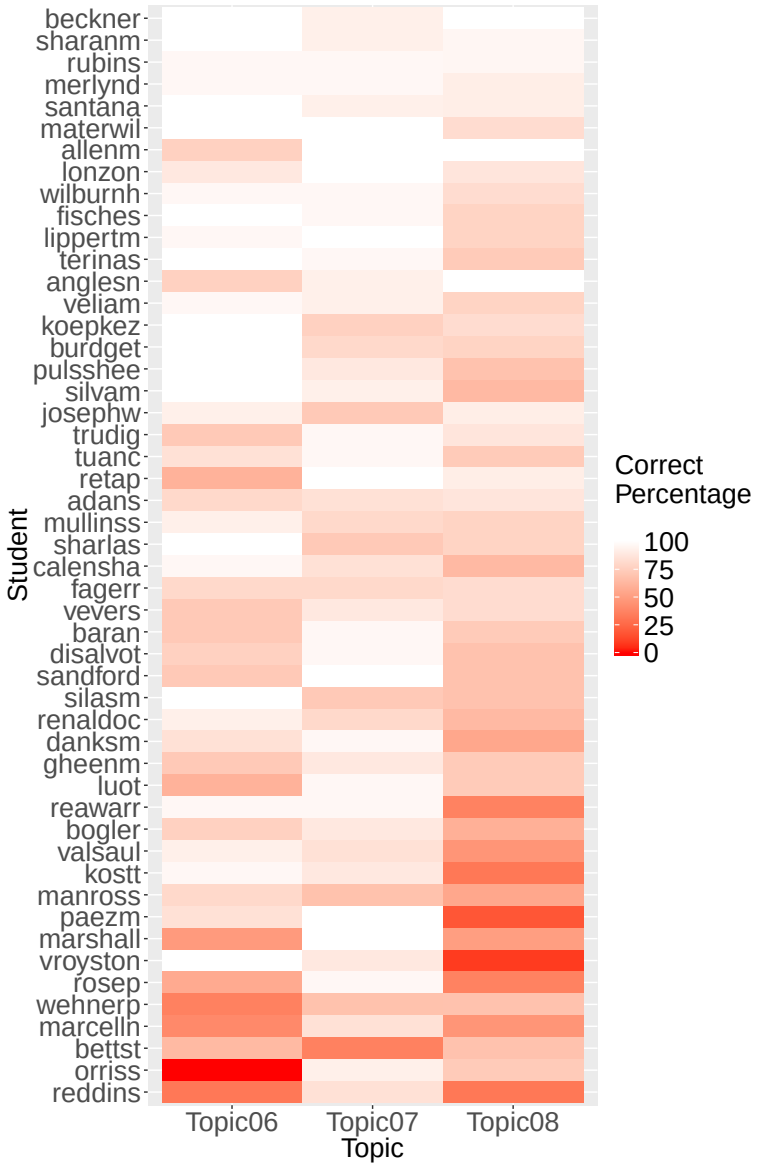

Figure 3: Heatmap of the percentage scores of all homeworks for students in the section. The grey areas are the missing values.

	Topic06	Topic07	Topic08	AvgCrtPct
beckner	100.00	92.00	100.00	97.33
sharanm	100.00	92.00	95.45	95.82
rubins	96.00	96.00	95.45	95.82
merlynd	96.00	96.00	90.91	94.30
santana	100.00	92.00	90.91	94.30
materwil	100.00	100.00	81.82	93.94
allenm	76.00	100.00	100.00	92.00
lonzon	88.00	100.00	86.36	91.45
wilburnh	96.00	96.00	81.82	91.27
fisches	100.00	96.00	77.27	91.09
lippertm	96.00	100.00	77.27	91.09
terinas	100.00	96.00	72.73	89.58
anglesn	76.00	92.00	100.00	89.33
veliam	96.00	92.00	77.27	88.42
koepkez	100.00	76.00	81.82	85.94
burdget	100.00	80.00	77.27	85.76
pulsshee	100.00	88.00	68.18	85.39
silvam	100.00	92.00	63.64	85.21
josephw	92.00	72.00	90.91	84.97
trudig	72.00	96.00	86.36	84.79
tuanc	84.00	96.00	72.73	84.24
retap	60.00	100.00	90.91	83.64
adans	80.00	84.00	86.36	83.45
mullinss	92.00	80.00	77.27	83.09
sharlas	100.00	72.00	77.27	83.09
calensha	96.00	84.00	63.64	81.21
fagerr	80.00	80.00	81.82	80.61
vevers	72.00	88.00	81.82	80.61
baran	72.00	96.00	72.73	80.24
disalvot	76.00	96.00	68.18	80.06
sandford	72.00	100.00	68.18	80.06
silasm	100.00	72.00	68.18	80.06
renaldoc	92.00	80.00	63.64	78.55
danksm	84.00	96.00	54.55	78.18
gheenm	72.00	88.00	72.73	77.58
luot	60.00	96.00	72.73	76.24
reawarr	96.00	96.00	36.36	76.12
bogler	76.00	88.00	59.09	74.36
valsaul	92.00	84.00	45.45	73.82
kostt	96.00	88.00	31.82	71.94
manross	80.00	68.00	54.55	67.52
paezm	84.00	100.00	18.18	67.39

marshall	48.00	100.00	50.00	66.00
vroyston	100.00	88.00	9.09	65.70
rosep	56.00	96.00	36.36	62.79
wehnerp	36.00	68.00	68.18	57.39
marcelln	40.00	84.00	45.45	56.48
bettst	64.00	36.00	68.18	56.06
orriss	0.00	92.00	72.73	54.91
reddins	32.00	84.00	31.82	49.27

Table 2: Percentage scores of all homeworks for the students. 22% of the students have the average correct percentage greater than 90%, and 10% of the students have their average correct percentage below 60%.

	Topic06	Topic07	Topic08
koepkez		X	
josephw		X	
retap	X		
sharlas		X	
silasm		X	
luot	X		
reawarr			X
valsaul			X
kostt			X
manross		X	
paezm			X
marshall	X		X
vroyston			X
rosep	X		X
wehnerp	X	X	
marcelln	X		X
bettst	X	X	
orriss	X		
reddins	X		X

Table 3: Students whose scores were under 20% of the class.

Missing Data

Figure 4 shows the summary of missing homeworks from the students. Table 4 lists the students who missed at least one homework.

Times.Missing

Table 4: Students with missing homeworks.

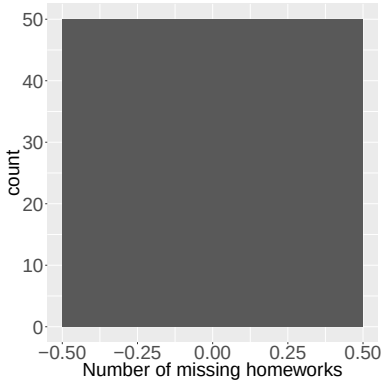

Figure 4: Histogram of the missing homeworks.

Acknowledgement

This report is generated by Xiaoyue Cheng, Dianne Cook, Lindsay Rutter, and Amy Froelich, using R-3.1.2 with package knitr, xtable and ggplot2.