

Stat101 Homework Report for Section B and Unit 2

Overview

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

There are 50 students in Section B 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 75, 90, 71, 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	75.44	25.18	0.00	88.00	100.00
Topic07	89.68	10.45	40.00	92.00	100.00
Topic08	71.09	18.20	0.00	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.

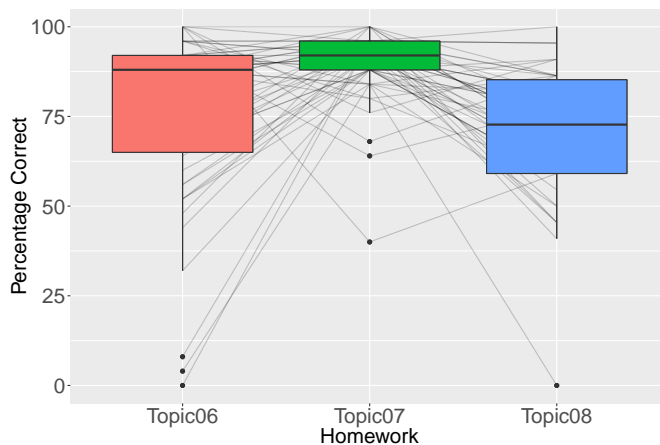


Figure 2: Side-by-side boxplots of the percentages correct by students homeworks. Topic07 has the highest median, while Topic08 has the lowest median.

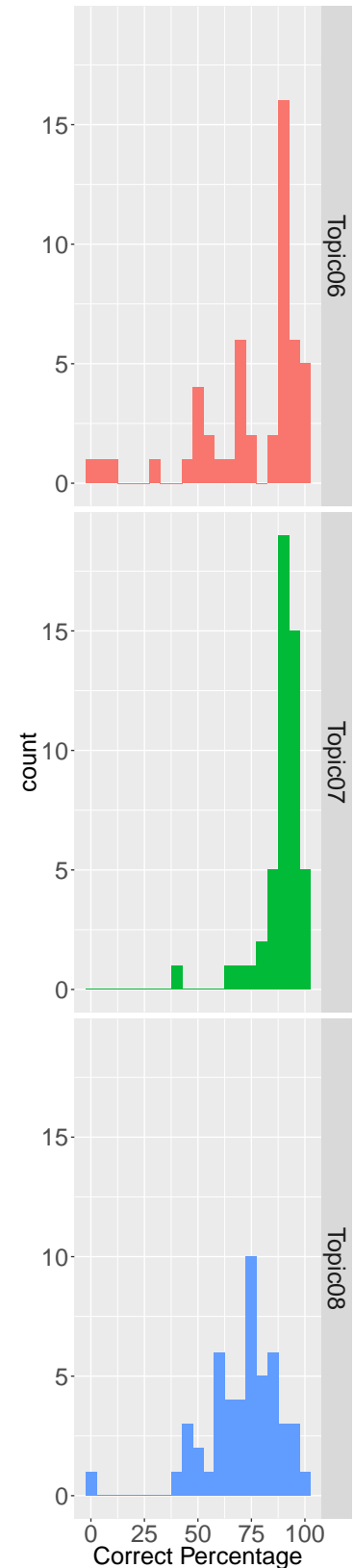


Figure 1: Histograms of the percentages correct by students homeworks.

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.

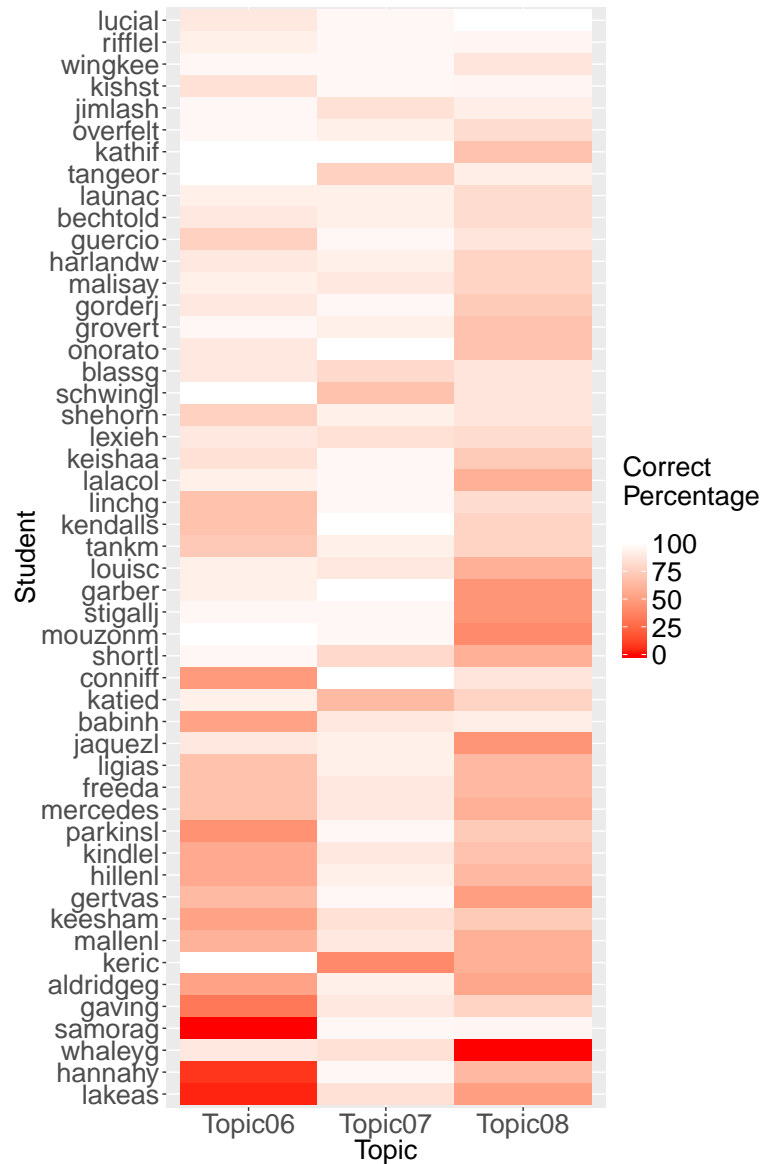


Figure 3: Heatmap of the percentage scores of all homeworks for students in the section. The grey areas are the missing values.

	Topico6	Topico7	Topico8	AvgCrtPct
lucial	88.00	96.00	100.00	94.67
rifflel	92.00	96.00	95.45	94.48
wingkee	96.00	96.00	86.36	92.79
kishst	84.00	96.00	95.45	91.82
jimlash	96.00	84.00	90.91	90.30
overfelt	96.00	92.00	81.82	89.94
kathif	100.00	100.00	68.18	89.39
tangeor	100.00	76.00	90.91	88.97
launac	92.00	92.00	81.82	88.61
bechtold	88.00	92.00	81.82	87.27
guercio	76.00	96.00	86.36	86.12
harlandw	88.00	92.00	77.27	85.76
malisay	92.00	88.00	77.27	85.76
gorderj	88.00	96.00	72.73	85.58
grovert	96.00	92.00	68.18	85.39
onorato	88.00	100.00	68.18	85.39
blassg	88.00	80.00	86.36	84.79
schwingl	100.00	68.00	86.36	84.79
shehorn	76.00	92.00	86.36	84.79
lexieh	88.00	84.00	81.82	84.61
keishaa	84.00	96.00	72.73	84.24
lalacol	92.00	96.00	59.09	82.36
linchg	68.00	96.00	81.82	81.94
kendalls	68.00	100.00	77.27	81.76
tankm	72.00	92.00	77.27	80.42
louisc	92.00	88.00	59.09	79.70
garber	92.00	100.00	45.45	79.15
stigallj	96.00	96.00	45.45	79.15
mouzonm	100.00	96.00	40.91	78.97
shortl	96.00	80.00	59.09	78.36
conniff	48.00	100.00	86.36	78.12
katied	92.00	64.00	77.27	77.76
babinh	52.00	88.00	90.91	76.97
jaquezl	88.00	92.00	45.45	75.15
ligias	68.00	92.00	63.64	74.55
freeda	68.00	88.00	63.64	73.21
mercedes	68.00	88.00	59.09	71.70
parkinsl	44.00	96.00	72.73	70.91
kindlel	56.00	88.00	68.18	70.73
hillenl	56.00	92.00	63.64	70.55
gertvas	64.00	96.00	50.00	70.00
keesham	52.00	84.00	72.73	69.58

mallenl	60.00	88.00	59.09	69.03
keric	100.00	40.00	59.09	66.36
aldridgeg	52.00	92.00	54.55	66.18
gaving	32.00	88.00	77.27	65.76
samorag	0.00	96.00	95.45	63.82
whaleyg	88.00	84.00	0.00	57.33
hannahy	8.00	96.00	63.64	55.88
lakeas	4.00	84.00	50.00	46.00

Table 2: Percentage scores of all homeworks for the students. 10% of the students have the average correct percentage greater than 90%, and 6% of the students have their average correct percentage below 60%.

	Topico6	Topico7	Topico8
tangeor		X	
blasse		X	
schwingl		X	
garber			X
stigallj			X
mouzonm			X
shortl		X	
conniff	X		
katied		X	
babinh	X		
jaquezl			X
parkinsl	X		
gertvas			X
keesham	X		
keric		X	
aldridgeg	X		X
gaving	X		
samorag	X		
whaleyg			X
hannahy	X		
lakeas	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.

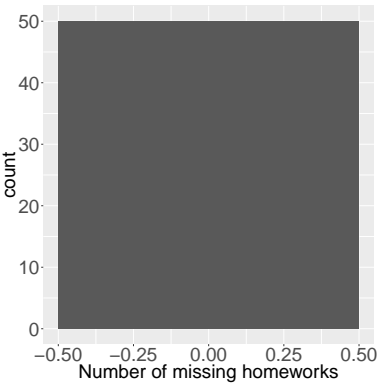


Figure 4: Histogram of the missing homeworks.

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.