

Stat100 Homework Report for Section CD and Unit 1

Overview

The 2 homework outcome files are Topic03.CD.csv, Topic06.CD.csv.

There are 50 students in Section CD 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 2 homeworks are 33, 27, 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
Topic03	32.71	17.07	11.43	29.29	82.86
Topic06	27.04	9.09	8.00	28.00	48.00

Table 1: Summary statistics for correct percentage. Topic03 has the highest mean correct percentage, while Topic06 has the lowest. Topic03 has the largest standard deviation, and Topic06 has the smallest.

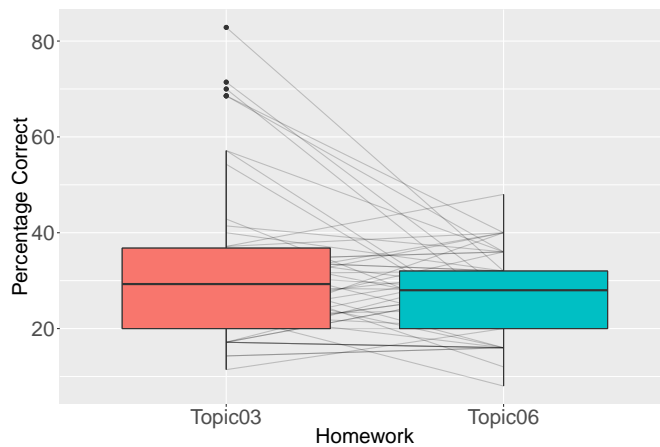


Figure 2: Side-by-side boxplots of the percentages correct by students homeworks. Topic03 has the highest median, while Topic06 has the lowest median.

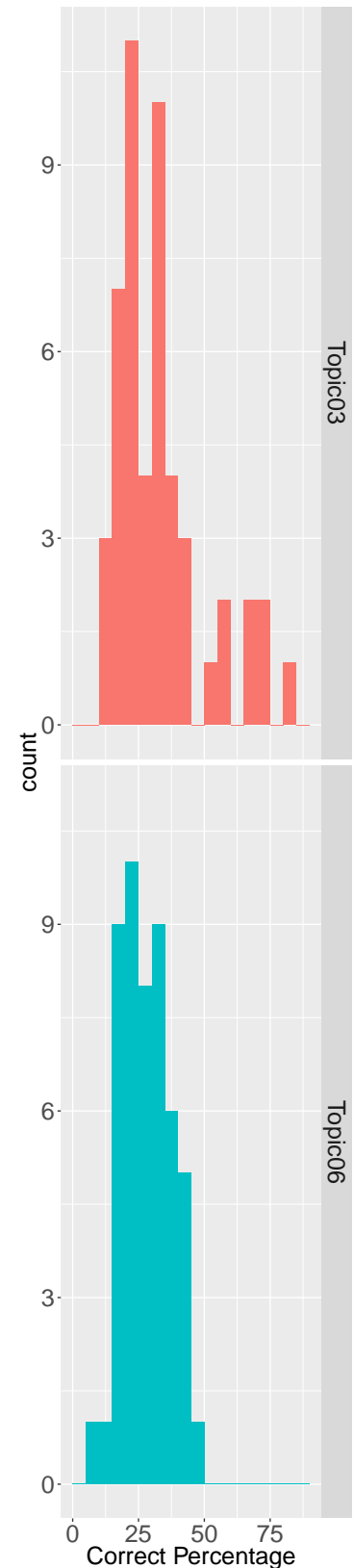


Figure 1: Histograms of the percentages correct by students homeworks.

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 2 homeworks. Table 3 lists the students who were in the lower 20% of the class.

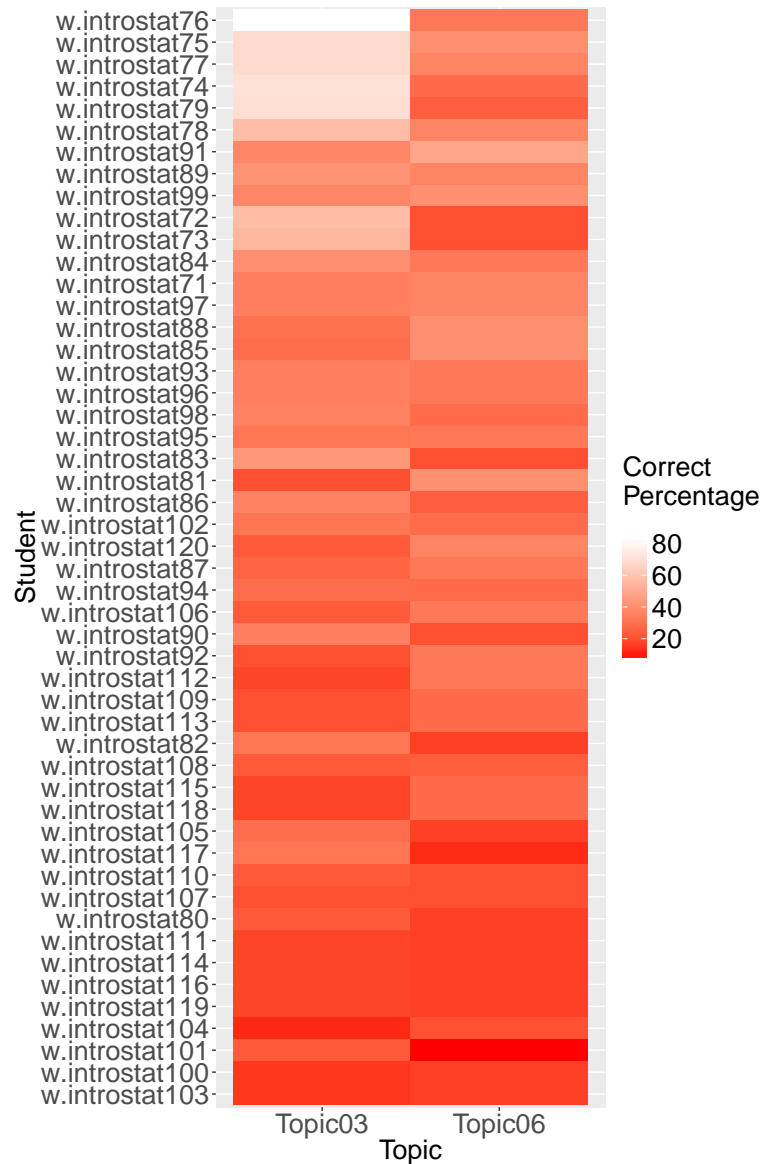


Figure 3: Heatmap of the percentage scores of all homeworks for students in the section. The grey areas are the missing values.

	Topico3	Topico6	AvgCrtPct
w.introstat76	82.86	32.00	57.43
w.introstat75	68.57	40.00	54.29
w.introstat77	68.57	36.00	52.29
w.introstat74	71.43	28.00	49.71
w.introstat79	70.00	24.00	47.00
w.introstat78	57.14	36.00	46.57
w.introstat91	37.14	48.00	42.57
w.introstat89	41.43	36.00	38.71
w.introstat99	37.14	40.00	38.57
w.introstat72	57.14	20.00	38.57
w.introstat73	54.29	20.00	37.14
w.introstat84	40.00	32.00	36.00
w.introstat71	34.29	36.00	35.14
w.introstat97	34.29	36.00	35.14
w.introstat88	30.00	40.00	35.00
w.introstat85	28.57	40.00	34.29
w.introstat93	34.29	32.00	33.14
w.introstat96	34.29	32.00	33.14
w.introstat98	35.71	28.00	31.86
w.introstat95	31.43	32.00	31.71
w.introstat83	42.86	20.00	31.43
w.introstat81	20.00	40.00	30.00
w.introstat86	35.71	24.00	29.86
w.introstat102	31.43	28.00	29.71
w.introstat120	22.86	36.00	29.43
w.introstat87	25.71	32.00	28.86
w.introstat94	28.57	28.00	28.29
w.introstat106	22.86	32.00	27.43
w.introstat90	34.29	20.00	27.14
w.introstat92	20.00	32.00	26.00
w.introstat112	17.14	32.00	24.57
w.introstat109	20.00	28.00	24.00
w.introstat113	20.00	28.00	24.00
w.introstat82	31.43	16.00	23.71
w.introstat108	22.86	24.00	23.43
w.introstat115	17.14	28.00	22.57
w.introstat118	17.14	28.00	22.57
w.introstat105	28.57	16.00	22.29
w.introstat117	31.43	12.00	21.71
w.introstat110	22.86	20.00	21.43
w.introstat107	20.00	20.00	20.00
w.introstat80	22.86	16.00	19.43

w.introstat111	17.14	16.00	16.57
w.introstat114	17.14	16.00	16.57
w.introstat116	17.14	16.00	16.57
w.introstat119	17.14	16.00	16.57
w.introstat104	11.43	20.00	15.71
w.introstat101	22.86	8.00	15.43
w.introstat100	14.29	16.00	15.14
w.introstat103	14.29	16.00	15.14

Table 2: Percentage scores of all homeworks for the students.
 0% of the students have the average correct percentage greater than 90%, and 100% of the students have their average correct percentage below 60%.

	Topico3	Topico6
w.introstat112	X	
w.introstat115	X	
w.introstat118	X	
w.introstat117		X
w.introstat111	X	
w.introstat114	X	
w.introstat116	X	
w.introstat119	X	
w.introstat104	X	
w.introstat101		X
w.introstat100	X	
w.introstat103	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.

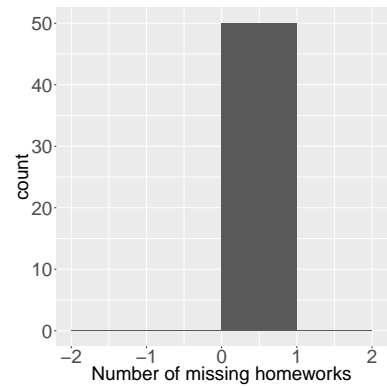


Figure 4: Histogram of the missing homeworks.

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.