Homework #3
Solutions Stat 202-Carver

1.7. Shown are two possible stemplots; the first uses split stems (described on page 11 of the text). The scores are slightly left-skewed; most range from 70 to the low 90s.

(b)

5	58
6	0
6	58
7	0023
7	5558
8	00003
8	5557
9	0002233
9	8

(a)

5	58
6	058
7	00235558
8	000035557
9	00022338

1.8. Preferences will vary. However, the stemplot in Figure 1.8 shows a bit more detail, which is useful for comparing the two distributions.

1.9. **(a)** The stemplot of the altered data is shown on the right. **(b)** Blank stems should always be retained (except at the beginning or end of the stemplot), because the gap in the distribution is an important piece of information about the data.

1	6
2	
2	5568
3	34
3	55678
4	012233
4	8
5	1

1.33. Shown is the stemplot; as the text suggests, we have trimmed numbers (dropped the last digit) and split stems. 359 mg/dl appears to be an outlier. Overall, glucose levels are not under control: Only 4 of the 18 had levels in the desired range.

0	799
1	0134444
1	5577
2	0
2	57
3	
3	5

1.34. The back-to-back stemplot on the right suggests that the individual-instruction group was more consistent (their numbers have less spread) but not more successful (only two had numbers in the desired range).

Individual		Class
	0	799
22	1	0134444
99866655	1	5577
22222	2	0
8	2	57
	3	
	3	5