Grading Scheme GR5206 HW1

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There are 40 points total for this homework, with 15 for Problem 1 and 25 for Problem 2. If the student solution answers the question exactly correct then they should get full points for that problem. If not, then refer to the breakdown below as to how to allocate partial credit.

If the student has only submitted an Rmd file or their html file has not been knit correctly then they should be marked out of 20, with the total points possible for each question halved.

If you have any questions about any of the problems drop me an email at owen.ward@columbia.edu.

Problem 1

i (5 points) For this part the student gets 0 if they do not get the question exactly right. If they do not account for the header they should get 0.

ii (5 points) If they get the correct answer then 5, otherwise 0.

iii (5 points) Any way which correctly gives them the answer gets 5 points. If the variable is not of type character (they forget ""), then give them 2 points. If they do not check that the variable they create is a character then give 4 points.

Problem 2

i (5 points) Any correct way of doing this is fine. Deduct one point is the explanation for the mean of survived is incorrect. Deduct one point if the student doesn't explain why age has NA correctly (due to missing values).

ii (4 points) This should be to take all female passengers and how many of them survived. If the student interpreted this incorrectly but stated how they interpreted the question and then did the correct computation corresponding to that interpretation give them full points.

iii (4 points) Here stratify across survived and compute what proportion of them were female. Again, if the student interpreted this incorrectly but stated how they interpreted the question and then did the correct computation corresponding to that interpretation give them full points. Any way to do these computations is fine.

iv (4 points) Any correct use of a for loop is fine here. Deduct 2 points if there is any small error leading to the wrong answer.

v (4 points) Any correct use of tapply is fine. Deduct 1 point if they do not check the two vectors are indentical.

vi (4 points) Any valid comment on the correct relationship is fine (decreasing, etc). If they give the wrong survival rates but then give a valid comment on that relationship give 3 points.