R Scripting

Lab for unit 4 - Structured programming

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Please solve the following problems!

- 1. Go to the tapply() chapter of the "Apply And Friends" notebook. There we used (among other things)
 - with(Y, tapply(hp, am, summary)) to calculate summary statistics for variable hp separately for the two levels of am and
 - with (Y, tapply (hp, list(am, vs), mean)) to calculate the mean horsepower value for all four possible combinations of am and vs
 - a. Suppose we wish to compute summary for all four possible combinations of am and hp. What does the result look like if we use tapply() for this task? Can you extract the four different summaries?
 - b. Instead of tapply(), we could have used convenience function by() (see ?by). Utilize this function in order to get the same results as given by tapply(), but returned in a more suitable way.
 - c. We already got to know another function that can be used for such problems (Hint: Have a look at the exercise sheet in unit "Data Structures (II)"). Can you also utilize this function to get the same results?