

Student	Yan Xue	80
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Part 1

	Available	Marks
Generate WineSamples dataframe	5	3
Add proline categories	10	9
Add ratio of hue to colour intensity	5	5
Generate WineSummary	5	2
Add descriptive data for alcohol and phenols	10	9
Identify high/v. high proline levels	10	6
Commenting and use of white space	5	5
Comments The comments must also explain if any extra packages are used, rather than just trying to load them. Remember to make both your code and comments narrow enough to fit on a normal screen – 80-90 characters wide is good. Good use of quantile() and cut() Efficient generation of ratio column. <pre>> show(wineSummary) # display wine.Type samples.Number 1 Type 1 59 2 Type 2 71 3 Type 3 48 4 <NA> 3</pre> You should only have 3 rows (NA is not a type of wine), but the data for these are correct. Good use of a function to calculate the means and standard deviations. You could also have used the aggregate() function. The calculations for question six should be to find (high v.high) rather than (high) and (v.high). Good commenting and use of white space. More of these tasks could have been completed by writing functions for them, but it's good to see the one for means and standard deviations.		

Part 2

	Available	Marks
Create the countryData dataframe	5	3
Create the CovidSymmary dataframe	15	12
Check the data for normality and process accordingly	10	8
Perform the appropriate t-tests	5	5
Perform the appropriate ANOVA tests	10	8
Commenting and use of white space	5	5
Comments The comments must also explain if any extra packages are used, rather than just trying to load them. A concise and elegant way of creating CovidSummary, with a good way of showing the range. The remove_outliers function is a good idea. You only needed to do this for new cases but your code shows that you understand the process well. The t-test is good. The ANOVA process is good, although again you only needed to do the calculations for new cases. Good commending and use of white space. Good work.		