

Student	Matthew Howells	70
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Part 1

	Available	Marks
Load <i>iris.xlsx</i> data into data frame	3	3
Headers are correct	1	1
Species names are a factor	1	0
Loop for <i>iris Setosa</i>	4	3
Loop for <i>iris Versicolour</i>	4	3
Loop for <i>iris Virginica</i>	4	3
Binding results to <i>irisSummary</i>	3	3
Pearson correlation	5	5
Labelled scatterplot	5	5
Correct use of function	3	0
Calculation for <i>iris Setosa</i>	3	0
Calculation for <i>iris Versicolour</i>	3	0
Calculation for <i>iris Virginica</i>	3	0
Binding results to <i>irisSummary</i>	3	0
Commenting, white space, and code presentation	5	5
Comments The iris species should be a factor (use <i>stringsAsFactors=TRUE</i>) in the read.csv command. Ideally the three counts should be done in the same loop.		

Part 2

	Available	Marks
Load <i>Kicks.xlsx</i> into <i>kickData</i> data frame	5	5
Generate statistics for air-filled balls	7	6
Generate statistics for helium-filled balls	7	6
Binding results to <i>kickSummary</i>	1	1
Removing the outliers	10	6
Performing the t-test	5	10
Extract data for Neil	4	0
Extract data for Jonny	4	0
Test for significant difference	2	0
Commenting, white space, and code presentation	5	5
Comments Lines 17-21 don't work, but are not needed. The range should be one number, calculated by subtracting the lower range from the upper range. The Shapiro test tells you if the data is normal. Only if it isn't do you need to remove outliers, so you've removed an outlier that didn't need removing from the air data. The logic for the rest of the t-test is good. Excellent work overall.		