UNIT 6 HW

1. 



µ1, µ2, µ3, µ4, and µ5, are the mean scores in the none, amputee, crutches, hearing, and wheelchair groups respectively. Be careful when identifying ‘k’ here. This study is mentioned throughout Chapter 6 of Statistical Sleuth.

**1a – Using the Bonferroni method to construct simultaneous confidence intervals μ2 – μ3, μ2 – μ5, and μ3 – μ5.**

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***Amputee vs. Crutches:***

*Estimated difference:* -1.493. This suggests that, on average, the Amputee group scored approximately 1.493 points lower than the Crutches group.

*95% CI:* (-3.010, 0.0239). Since this interval contains 0, I can't conclude at the 0.05 significance level that there is a significant difference in attitudes towards Amputees versus those on Crutches.

***Amputee vs. Wheelchair:***

*Estimated difference*: -0.914. This indicates that, on average, the Amputee group scored about 0.914 points lower than the Wheelchair group.

95% CI: (-2.431, 0.6025). Again, this interval contains 0, so I don't have sufficient evidence to suggest a significant difference in attitudes towards Amputees versus those in Wheelchairs.

***Crutches vs. Wheelchair:***

*Estimated difference:* 0.579. This suggests that, on average, the Crutches group scored 0.579 points higher than the Wheelchair group.

*95% CI:* (-0.938, 2.0953). This interval, too, contains 0, indicating that I can't conclude a significant difference in attitudes towards those on Crutches compared to those in Wheelchairs.

***Summary:***

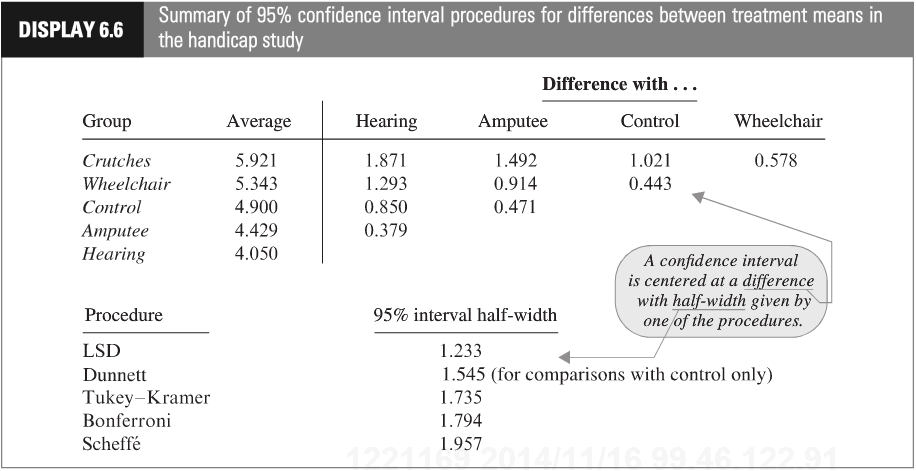
Based on the Bonferroni-adjusted 95% CIs, there isn't a statistically significant difference in attitudes towards the three mobility types of handicaps at the 0.05 significance level. This is because all the confidence intervals for the differences include zero. Thus, based on this analysis, there's no clear evidence to suggest differing attitudes toward these mobility types of handicaps.

**1b – The mean scores and identifying ‘k’ with this group’s comparison.**

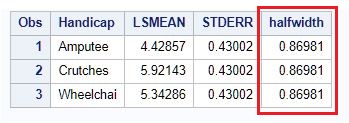
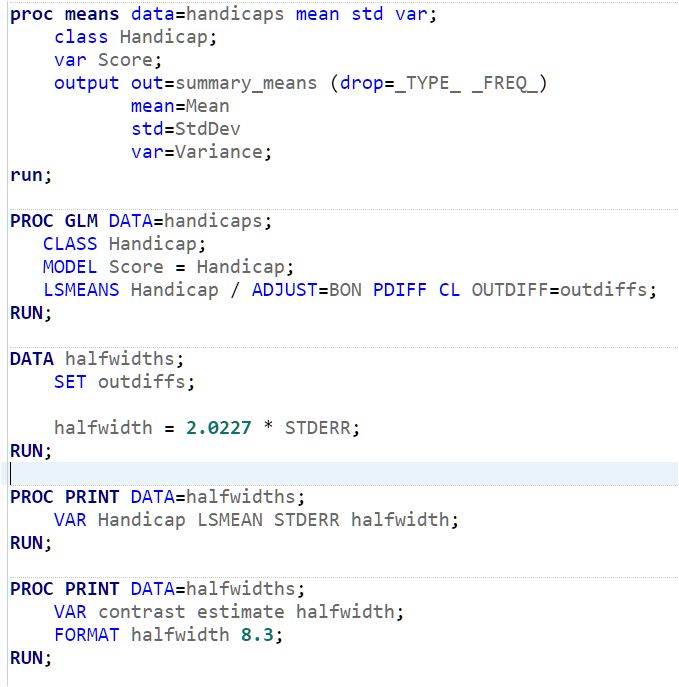
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The number of groups being compared are **None**, **Amputee**, **Crutches**, **Hearing**, and **Wheelchair**. Therefore, ***k***= 5.

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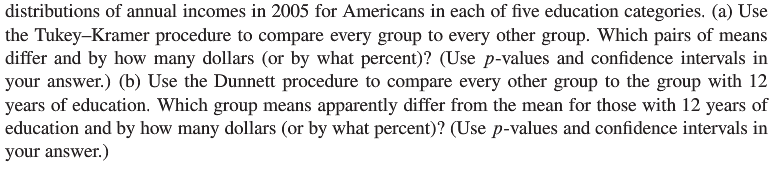
Show your work for this problem by simply copying the code and relevant output for each comparison. (Cut and paste your code and relevant output.) The half-width might be found directly from your output. If so, note where it is found. Do this for **both** R and SAS.

*2a - SAS code and results:*

*2b - R code and results:*

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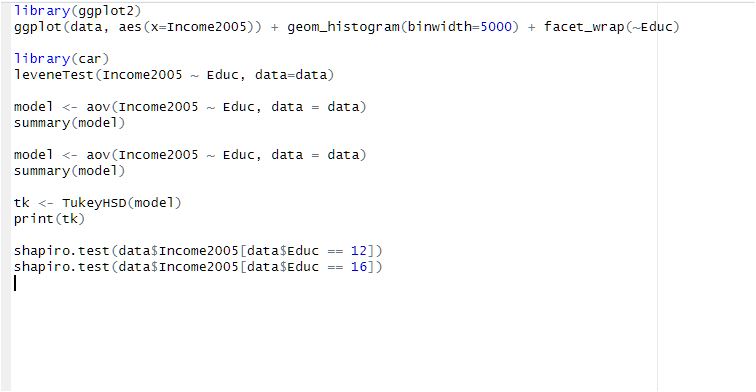
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This question is obviously from the book, but assume you are starting this problem from scratch. Show all parts:

1. Discussion of Assumptions (This could result in the inferences no longer being about the means. IF that happens, you should still compare the groups, just use the appropriate parameters when making inferences. Remember that you already did the work for addressing assumptions in prior homeworks.)
   1. *Discussion of Assumptions:*
      1. *Assumptions for ANOVA:*
         1. Independence Observations – each piece of data is not related to any other piece of data.
         2. Normality – The values should form the “bell curve”.
         3. Homogeneity of Variances – Each group of values should be spread out all about the same.
         4. No Perfect Multicollinearity – These means data points should not be in perfect synchronization.
         5. Linearity - There is a straight-line relationship between the data points.
      2. IF these assumptions weren’t true, then:
         1. The ANOVA test might not be the best tool to use, so we could do a couple of other things to make them fit the assumptions:
            1. To make the data points fit, we can log transformation.
            2. Use another test that does not need the assumptions to be true.
      3. However, in this case with Education vs Income, it does fit the ANOVA’s assumptions.
2. Selection and Execution of Tests

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**2a. Looking at the Histogram:**

* The graph shows how much money people make based on their years of education (12 years vs. 16 years).
* For people with 12 years of education, a lot of them make less money, with just a few making a lot more.
* People with 16 years of education have a wider range of incomes, but it's more balanced.

**2b. Levene's Test**:

* This test checks if the way incomes spread out in the two groups is similar.
* The result from this test says they do not spread out the same way in both groups.

**2c. ANOVA Test**:

* This test helps us know if the average income in the two education groups is different.
* The result says they're definitely different.

**2d. Tukey's Test**:

* This test gives more details after the ANOVA.
* It says that on average, people with 16 years of education earn about $33,132 more than those with only 12 years.

**2e. Shapiro-Wilk:**

* This is another test to see if the data looks like a bell curve.
* The result for the 16 years group says it's not a perfect bell shape. When I see the mean here, I am not to trust too much.

(3) Interpretation and Conclusion.

In short, perform a complete analysis like you usually do. Provide and interpret all the confidence intervals that suggest a significant difference in incomes; you may do this in SAS or R but be sure and provide your code.

**Finally, you should first test to see if any of the groups are different before you consider pairwise comparisons.**

**3a.**

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BcSbkMfG1SMBOQc4tv8QrKfxedD0q60Ofy3jjle41hYpGdmIKRRqjeYy45BK8kCuxreVTEYWanOKTaja/laz38lv8AcJWaujnND0AW+seIrnULGE/btSjnikdUYyLHFEEY9xtdWIzyDyOtdHWJdeLtKs9eTRp/t/26TlETTLl1cDblg6xlSo3rls4GeSKs3PiPRLK7S1vNZ0+3uJJfJSGW6RXaTCnYATkth146/MPUVz1Y4irJSlF6pW0eyVrr7ik1bQzHhv8ATfHl1fxaXc31pqFrbQebbyQgW7RvLuLh3U4xID8oY8HjpnK1DwtezaN47EFhGbzWJG+ysCgadRbxqgLZ4AcPgMRjk966HXPFGm6JmCS7tX1Aqrx2DXKpNIpbG4L1IHJzjsaWTxHaHxRBodpPZ3FyVdrqNb2MTWwCgqTFncQ2fw4PeumnVxMbVIw6LXXVQs+/kvX1FdI5HVPC+rN4k1V5f7burDVJ7efGmvYhU8tEXbIZwJAQybgYzjB7HOfRqgF9aGCacXUJigLCaTzBtjK/eDHtjvnpWc/iO0PiiDRLSezubgq7XUa3sYmtgFDKTFncQ2evbg96xq1K2JSi4/Cuitslq/kkJWiVb/w+Lnx1p+qrAfIS3k+0kPhXlQr5BZc/MVDzEdgTnqFxzniDwvqk3iLWJD/bdzp+reQdulPYrsEagbXNwA4ww3KUY/ePQ9es1zxRpuiZgku7V9QKq8dg1yqTSKWxuC9SByc47GtA6jZL5+68tx9nkWKbMq/unYAqrc8EhlwD13D1rWlicTRUZ8t1ayuuiaf4O1n8gsv1OI8Yaf4o1XULi3t7W8lsYp7a4to7VrQQTLG6SMJTL+9EuVYLt2rwmWGWI29B0Note8S32o6fGg1G+gmhaQIzOiW8IXOCcbZFfAPQ8jrmtS58QaNZ6pFpl3q9hBfzbfLtJblFlfccDCE5OT04qnd65qNl4r0/TZ9OtTY6hI8cN0l4xlBWJpDuiMYAHykcOex9qpVsROl7KMElyvyulZt6vV+6gjFJ3Ru1ymotqd74tSG90C/udItZI2t3gltvKkk4PnSBpQ+EPRQp5BbDHZt2rnxBo1nqkWmXer2EF/Nt8u0luUWV9xwMITk5PTiq99rOoWt9NDBostxFHLaosyuQHEshV2A2n/VjDH2PbrXNh41ISuo7rS+m7SutUVa7XqYOq6Jqhj8QaNa6e9xba/ceaL4TIqWqvHHHIHBO8sNhK7VYHKgkckJqmh6p5ev6Naae9xba/ceYL4TIqWyvHHHIHBO8sNhK7VYHKgkckdI2sSW/iBNNv7TyY7oH7FdLJuSZlXLRsMAo+NxA5BVSc5yBqVv9crU+W8Vsn112s99/dX6oSv3/AOG7f1qcn4w0qXUri3XTdA87VF2fZtaZokFlh8nL7vN6Z+VVIbO0nBOOsoorinWlOEYPaN+/X+ug0rGXqOrzWWvaRp8Vl56ag8qyTCUAwBE3btuMsCcLngAkeoB1KKKiUotJJWtv56vX9PkAUUUVAwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAitv8AUt/10f8A9CNcxp3hrVrXxpeahP4g1Oa1a3t1XzEtcTlWmLRsFhDALuUgjaTuPJxx09t/qj/10f8A9CNOimjniWWCRZI2GVdGBB+hFb0606cZKKXvaO6T8/0AfRRVbT7l7uwjmkChmzkL04JFYAWaKKKACiiigAooooA4ZdOeTxtdeH4tp0kTR6zOoIOxyxxDgdA0qed3z846GpH8E6w2tNejxDiE3BlEPmahwu7O3i92dOPubf8AZxxXV2OmWGmLMNNsbazE8hmlFvCsfmOerNgcsfU81ar0ZY+rF/unZWt017t76shRVlcK5Tw//a/h9f7GudDuLyEXUjR6jaSwiMxySF90ivIrhxuO7arZxkZzgdXRXJTq8kXBpNPvfp10a7sq2tzg73RdXkg1HRI9LkcX2qrfJqvmxCKNfNSTLAt5m9Qm1QEI+VOQMkFzpeuG8uLCHR5HgfxBBqBvWuIljMIkjY7V3Fyw2nIKqMA4JOAe8orrWYVF9lfjvprv5Ly8hRiotNdLfhb/ACOJufDN2fD/AImjgsYxe6jqBniKlA0qgoVJbPbBxk5FacaX+m+M76dNKuru11JYALmB4QkGwMrbw8it3B+VW4966Ois3jJyTjJJp+v93z/uoFFK3l+gVwd7ouryQajokelyOL7VVvk1XzYhFGvmpJlgW8zeoTaoCEfKnIGSO8orKhiJUHeKT237rb+tgcUzG02wuYPFWtXkse2C6W3EL7gd21WDcdRgnvWzRRWdSo6ju+yX3K36DWhyOpHVT8SNNvYPD1/PY2lpcWr3SS2wUmVoGDBWlDbR5bZ+XPoDVPUPC17No3jsQWEZvNYkb7KwKBp1FvGqAtngBw+AxGOT3ruqK64Y6cOXlilZJddbS5tde4JWOC1LR9Zca7YLo324ajfQXkV480QjVFEI2kE796mNiPl29PmBOB1F/ZzzeItJuoo90NuJvNbIG3coA46np2rVoqJ4uc0tFon36pR79l0FY5e60S8HieZLaAHStTkiub19wGySIYIwTk7wsIwBjCPk5IB07+znm8RaTdRR7obcTea2QNu5QBx1PTtWrRUPETdm+it+Fvvtp8kOytY4PVdH1iRtfsI9G+3JqN/DeQ3jTRLGqKIRtIJ371MbEDbt6fMDwE1DSNbGoeILa10lp4tT1O0vY7r7RGsaxoturqQW37x5THG3aR/Fniu9orojmFSNvdWnr05dd/7q8iXBM8/8Yaf4o1XULi3t7W8lsYp7a4to7VrQQTLG6SMJTL+9EuVYLt2rwmWGWI6PVrC7vfEHhy8hgPlWlxLJcbmUGMNbuozzz8zAcZ/Kt2is3jJOMYqKVk1ot7qzb13HGNjjr611iDxU0vh3Tb+0a4u43vbiSW2ayu0ARWZlLmZWEa7V2KuWC7sjmuxoorGrWdVRTSVlbzfr/Wg0rI5rWJo9Y8T6Vptg3myabd/bL2RBlbdREwVGboHYyKQvXbk9MZ6WiipqVOaMYpaJf8EErBRRRWQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCK2/1R/66P/6Ea5230C9m8RPqkZTQ4mbMkNm26S8OQd0wP7oEgbThWfAGJBytdFbf6o/9dH/9CNS1tTrSpX5ev9ehLim0wqjov/IHg/4F/wChGr1RWtslpbLDGWKrnBbryc1iUS0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEVt/qj/10f8A9CNS1Fbf6o/9dH/9CNS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUARW3+qP/AF0f/wBCNS1FbgrGQQR87nn/AHjUtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)**

**3b. ANOVA Test:**

* Checked if there are any differences in incomes between the two education groups.

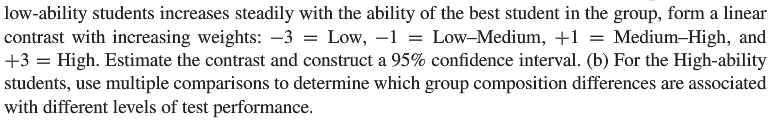
**3b. Tukey's HSD Test (the Detailed Test):**

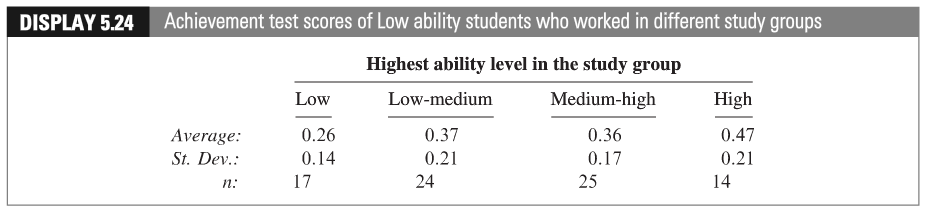
* Did find a difference.
* Compared every pair of groups.
* This test gave a range (confidence interval) for the average difference in income between groups.
* If this range did not include zero, which meant the two groups are different.

**3c.** In short, the ANOVA test checks for overall differences, while the Tukey's test conveyed how much different and by how much. Based on the results, people with 16 years of education earn, on average, $33,132.08 more than those with 12 years. This difference is significant, meaning it's not just due to random chance.

Bonus: Max 5 pts







Note: the data for Part b above is in Display 5.25 in your textbook.

* 1. Low-Ability Students - Linear Contrast:

|  |
| --- |
| A screenshot of a computer program  Description automatically generated |

* 1. High-Ability – Multiple Comparisons:

|  |
| --- |
| A screenshot of a computer program |

(c) Give the levels of ability a quantitative representation (Low = 1, Low-Medium = 2, etc.) for the low ability students. After completing the questions above, conduct a linear regression (I haven’t studied this yet!) of the **AVERAGE** performance against the level variable you just created. Be sure and address the assumptions. Defend the ones you can and assume the others are met. Include a scatterplot and residual plot. Is there evidence of linear trend? Is this inferred from the contrast? Assume the levels are equidistant in ability from each other.

|  |
| --- |
| A screenshot of a computer program |
|  |
| A graph with a line  Description automatically generated |
| A graph with black dots  Description automatically generated |

*Bonus a - Scatterplot:*

If the dots go up in a straight line (or down), which meant there is a connection between the group's ability and their average score.

*Bonus b- Residual Plot:*

This is another graph, but it shows the difference between what we predicted and the actual score. We want these differences (or 'residuals') to be all over the place without forming any shape. If they start forming shapes like a funnel, that tells us our prediction model might not be perfect.

*Bonus c - Linear Regression Results:*

If there's a very low p-value (less than 0.05) for Ability Level, since the p-value was 0.03743, I interpreted as there is a connection between ability and score.

*Bonus d - Assumptions:*

Linearity: I checked if the connection is a straight-line using the scatterplot.

Independence: I am assuming each group's score doesn't depend on another group's score.

Homoscedasticity: How spread out my residuals are.

If our p-value from the regression is less than 0.05, there's a clear connection between ability level and score. In this case, while there might be a connection between ability level and score, it's not statistically significant at the 0.05 level with a p-value of 0.06743.