**ANOVA of Difference in Means of Diving Data:**

Complete an ANOVA test for the difference in mean total points between the different ages of divers in R.

Fill in the ANOVA table below with your results.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Source** | **df** | **S.S.** | **M.S.** | **F-statistic** | **p-value** |
| **Students** |  |  |  |  |  |
| **Error** |  |  |  |
| **Total** |  |  |

Conclusion: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Pairwise Comparisons using Confidence Intervals:**

Use the ANOVA results to find a 95% confidence interval for the difference in mean total points.

Does this confidence interval contain zero? What does this result imply?

**Pairwise Comparisons using Fisher’s LSD:**

Compute the LSD using α = 0.05 level.

Based on your result, which age has a significantly different mean total points?

**Pairwise Comparisons using Tukey’s HSD:**

**Drawing conclusions:**