请根据下方资料，制作可以进行方差分析(One Way ANOV)的R程序。

|  |  |  |
| --- | --- | --- |
| 老板类型 | 工作满意度 | |
| 1 | 7 |
| 1 | 7 |
| 1 | 8 |
| 1 | 8 |
| 1 | 8 |
| 1 | 10 |
| 2 | 7 |
| 2 | 8 |
| 2 | 8 |
| 2 | 8 |
| 2 | 9 |
| 2 | 10 |
| 3 | 8 |
| 3 | 8 |
| 3 | 9 |
| 3 | 12 |
| 3 | 15 |
| 3 | 16 |

3号的 R结果:

假设:

1. 工作满意度会因老板类型有差异。

方差分析表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **分散源** | **平方和** | **自由度** | **平均平方** | ***F*** | ***p*** | |
| 组间 | 40.44 | 2 | 20.22 | 4.0625\* | 0.0389 |
| 组内 | 74.67 | 15 | 4.98 |
| 总计 | 115.11 | 17 |  |  |  |

\* p < 0.05

平均分析表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **因变量** | **组** | **平均** | **标准偏差** | **个案数** | ***F*** | ***p*** |
| 工作满意度 | 强制的 | 8.00 | 1.10 | 6 | 4.0625\* | 0.0389 | |
| 自由放任 | 8.33 | 1.03 | 6 |
| 民主 | 11.33 | 3.56 | 6 |
|  | 总计 | 9.22 | 2.60 | 18 |  |  | |

\* p < 0.05

结论:

1. 老板类型对工作满意度的影响在 p < 0.05水平上显著。 (F=4.0625, df1=2, df2=15, p=0.0389)