

ANOVA*

Problem

This problem relates to the taste/quality of food dishes served to twenty-eight customers in the TAJ GROUP Hotel Chain. The customers, who are basically from the higher income group (HIG), were asked to give their opinion about the quality/taste of the four common non-vegetarian dishes served to them. The analysis of the problem gives us the variance between the dependent variable (rating) and the independent variables (non-vegetarian dish).

The following four common dishes served at the above hotel chain's restaurant are coded as follows:

CODE	DISH NAME
1.	CHICKEN PLATTER
2.	HONEY CHICKEN
3.	CHICKEN SPINACH
4.	TANDOORI CHICKEN

In this problem we have considered four different non-vegetarian dishes that are being offered by TAJ GROUP Hotel Chain. The Hotel group wants to test, which of the above mentioned non-vegetarian dishes is being preferred by their target customers, that is, the HIG customers. At random these twenty-eight respondents are asked for their preference on the scale of 10 (1 = not liked at all, and 10 = most preferred dish) and these data have been tabulated.

Input

Dish Code is tabulated in the second column of the input data table, and the ratings given by the customer are tabulated in the third column. Here, the dependent variable is the **rating** given by the randomly chosen customer and independent variable is the **dish code**.

Input Data Table for Problem I

S. No.	Dish Type	Rating
1	1	6.00
2	1	7.00
3	1	8.00

4	1	5.00
5	1	9.00
6	1	8.00
7	1	7.00
8	2	8.00
9	2	8.00
10	2	9.00
11	2	8.00
12	2	7.00
13	2	9.00
14	2	8.00
15	3	7.00
16	3	6.00
17	3	6.00
18	3	5.00
19	3	7.00
20	3	7.00
21	3	5.00
22	4	6.00
23	4	6.00
24	4	7.00
25	4	6.00
26	4	8.00
27	4	7.00
28	4	6.00