```
_____
       Model : Y = b0 + b1 X1 + b2 X2
                                        (X1 first)
       -----
 > LM3 = lm ( y \sim
                  (x1) + x2
   summary(LM3)
 Coefficients:
             Estimate Std. Error t value Px (>(|t|))
 (Intercept) -19.1742
                          8.3606 - 2.293 / 0.0348
                          0.3034 0.7337
 x1 | X_2
               0.2224
                           0.2912 7 (2.265) 10.0369
 x2 | X_i
               0.6594
                 0 '***' 0.001 '**' 0.01 '*' 0.05\'.' 0.1 ' ' 1
 Signif. codes:
                        MSE
 Residual standard error: 2.543) on 17 degrees of freedom
 Multiple R-Squared: 0.7781,
                                 Adjusted R-squared: 0.7519
(F-statistic): 29.8 on 2 and 17 DF, p-value: 2.774e-06
Overall F- tet= = 55R(X,Y2)/2 = 385.44
                                      2.265 = 5.1284
 > anova(LM3)
 Analysis of Variance Table
                                                    }=> SSR(X1, X2) = SSR(X1) + SSR(X2/X1)
 Response: y
                                         Pr(>F)
           Df Sum Sq Mean Sq F value
              352.27 352.27 54.4661
33.17 33.17 5.1284
                                     1.075e-06 /*
                                        0.0369 *
 x^2|X_1
            1 (33.17)
 Residuals (17
                               MSE=6.47
                     SSR(X1) = 352.27
                                                      Note: [t-value] = partial-F.
               SSR(X2/X1) = 33.17
       Model : Y = b0 + b1 X1 + b2 X2 (X2 first)
   LM4 = lm (y^{(x2)} + x1)
   summary (LM4)
Coefficients:
             Estimate Std. Error t value Px(>|t|)
                           8.3606 -2.293
                                           0.0348 *
 (Intercept) -19.1742
                                    2.265
                                            0.0369 *
                           0.2912
 x2 |X1
                0.6594
                           0.3034 + 10.733
 x1 |X2
                0.2224
                                            0.4737
                 0 '***' 0.001 '**' 0.01 '*'
 Signif. codes:
 Residual standard error: 2.543 on 17 degrees of freedom
                                 Adjusted R-squared: 0.7519
 Multiple R-Squared: 0.7781,
 F-statistic: 29.8 on 2 and 17 DF,
                                      p-value: 2.774e-06
         La overal F-test.
 anova(LM4)
 Analysis of Variance Table
 Response: y
           Df Sum Sq Mean Sq F varde Pr(>F)
1 381.97 381.97 59.05746.281e-07
 x2
                         3.47
                                                     SSR(X_1, Y_2) = SSR(X_2) + SSR(X_1 | X_2)
                               10.537
            1
                3.47
 Residuals 17 109.95
                        16.47
                                                               =381.97 + 3.47 = 385.44
                          T
              495.39
                          MIE
                U
                SSTO
             (Same as
              the above)
```