# Package 'MissingPlotRBD'

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Type Package				
Title Missing Plot in RBD  Version 1.1.0  Description  A system for Analysis of RBD when there is one missing observation. Methods for this process is described in A.M.Gun,M.K.Gupta,B.Dasgupta(2019,ISBN:81-87567-81-3).				
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Missing .RBD Missing Plot in Randomized Block Design(RBD)				
Description				
This function analyses RBD when there is one missing observation.				
Usage				
Missing.RBD(m, r, c)				

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#### **Arguments**

m	a matrix containing values in a RBD where row of the matrix denotes the treatments and the column of the matrix denotes block. In this matrix, we will replace the missing value with 0.
r	the index no. of row/Treatment containing the missing value.
С	the index no. of column/Block- containing the missing value.

#### **Details**

In RBD setup, if there is one missing observation we can use this function to estimate the missing observation along with Sum of Squares for testing the differential effect of the treatments. Here we estimate the missing observation twice by minimizing the SSE of the design.

#### Value

x.hat: the least squure estimate of the missing observation.

SSE.x.hat : Sum of Squares of Error of x.hat.

x.double.hat: the least square estimate of the missing observation under the null hypothesis, H0.

SSE.x.double.hat: Sum of Squares of Error of x.double.hat.

F.stat: Observed value of the Test Statistic.

F.crit.value: Critical value of the Test Statistic.

#### Author(s)

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### **Examples**

```
p=matrix(c(12,15,16,18,16,21,0,27,29,30,35,36),nrow=4,ncol=3,byrow=TRUE) Missing.RBD(p,3,1)
```

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