```
· It a nusicunce variable causet be controlled,
   then we need to block it. In this case,
   we will use blocking design.
   If each treatment in blocking design contains
   at least one unit, then we say we have
    a complete blocking design.
    If we have setup blocking policy and then
    randomly assign experiment unit to each
    treatments, then we have randomize complete
    blocking design.
Model:
   · The model will similiar to factorial design
    with no interaction term because blocking
     is not real factor or interest.
     → yijk = 117 + dj + BK + Eijk j Eijk 314 N(0,02)
                                                                 Note: RCB is two-ways ANOVA
                Yijk := regresents the ith response value
                                                                     without interpretion
                      of ith level of factor A and
                      kth group of blocking.
                M7:= represents the grand mean.
                 oli := represents the main effect of
                        jeh level of factor A.
                 Bk := represents the blocking effect of
                        kth level of blocking.
                  Sijk:= represents the random emor.
Analysis:
 . If we find out the model of RCB have
     related small MSERCB than MSE without ACB,
                                                    sure. Need to
    then we want to choose RCB model.
      RE (MSECR, MSERCE) = MSECR
                                There is a famela co
                                   estimate this without
                                   using MSECR.
       Theopretation: RCB design is more efficency than CR
                        design in reducing the experimental error
```

	df	SS	MS	Fobs
Treasment	a-1	SSA	SSA Q-I	MSP MSE
Block	B-I	S B	<u>ssB</u>	
Euror	N-a-b+1	25€	SE N-a-6+1	
Total	N-1	SST	<u>\$61</u> N-1	

yok := represents the 1cth column mean.

$$SSB = \sum_{j=1}^{q} \sum_{k=1}^{p} n_j k \left(\overline{y_{0k}} - \overline{y_1} \right)^2$$