```
L_1        #parameter of Interance Distribution (Exponentional)
LG_5       #parameter of Servises Distribution (Exponentional)
TT_10000
t_nA_nD_n_Tp_0
A_NULL
D_NULL
x_rexp(1,L)
if(x<=10){
   tA_x
   tD_0
   repeat{
      if((tA>0)&(tD==0)){
         t_tA
         nA_nA+1
         n_n+1
         A[nA]_t
         y_rexp(1,LG)

tD_t+y
         x_rexp(1,L)
         if (t+x<=TT) tA_t+x
            else tA_0
}
      if((tA>0)&(tD>0)&(tA<=tD)){
         t_tA
         nA_nA+1
         n_n+1
         A[nA]_t
         x_rexp(1,L)
         if (t+x<=TT) tA_t+x
            else tA_0
      }
      if((tA>0)&(tD>0)&(tA>tD)){
         t_tD
         nD_nD+1
         n_n-1
         D[nD]_t
         if(n==0) tD_0
            else}
               y_rexp(1,LG)
               tD_t+y
            }
      }
      if((tA==0)&(tD>0)){
         t_tD
         nD_nD+1
         n_n-1
         D[nD]_t
         if(n==0) tD_0
            else{
               y_rexp(1,LG)
               tD_t+y
            }
      }
      if((tA==0)&(tD==0)){
         Tp_max(0,t-TT)
         break
      }
   }
}
hist(D-A,prob=T,nclass=100)
m_mean(D-A)
a_seq(0,6,.01)
lines(a,dexp(a,1/m))
Tp
```