```
xx={1,0}

functi on Rand()

xx[2]=xx[2]*45221+xx[1]*4793

xx[1]=xx[1]*45221+453806245

xx[2]=xx[2]+(xx[1]-xx[1]%65536)/65536

xx[2]=xx[2]%32768; xx[1]=xx[1]%65536

return (xx[2]*65536+xx[1])/2147483648
  2
  6
7
  8
9
            SS={}
Di =1000
Sn=10000
10
11
12
            for i = 1, Sn do

ss[i]={}

for j=1, Di do
13
14
15
16
17
                                ss[i][j]=Rand()
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
            end
            fp=assert(i o. open("di stance_sampl es. txt", "w"))
            \begin{array}{cccc} \text{for } i=1,\,Sn-1 \,\, \text{do} \\ \text{for } k=i+1,\,Di \,\, \text{do} \end{array}
                                m=0
                                 for j = 1, Di do
                                           m=m+(ss[i][j]-ss[k][j])^2
                                 n=math.sqrt(m)
fp:write(n,"\n")
                      end
            end
```