

# Analysis of the Data from Myelopoiesis

```
clearvars  
addpath(genpath('..'))
```

## Load the processed data and normalize

```
load olsson_new.mat  
data = data_olsson_clean;  
data = log(data+1);  
data = (data-mean(data))./std(data);  
true_labs = labs_cluster_clean;  
[N_cell,~] = size(data);
```

## Estimation of Number of Clusters from EPI

```
par.choice_distance = 'cosine';  
out = EstClusterNum(data,par);
```

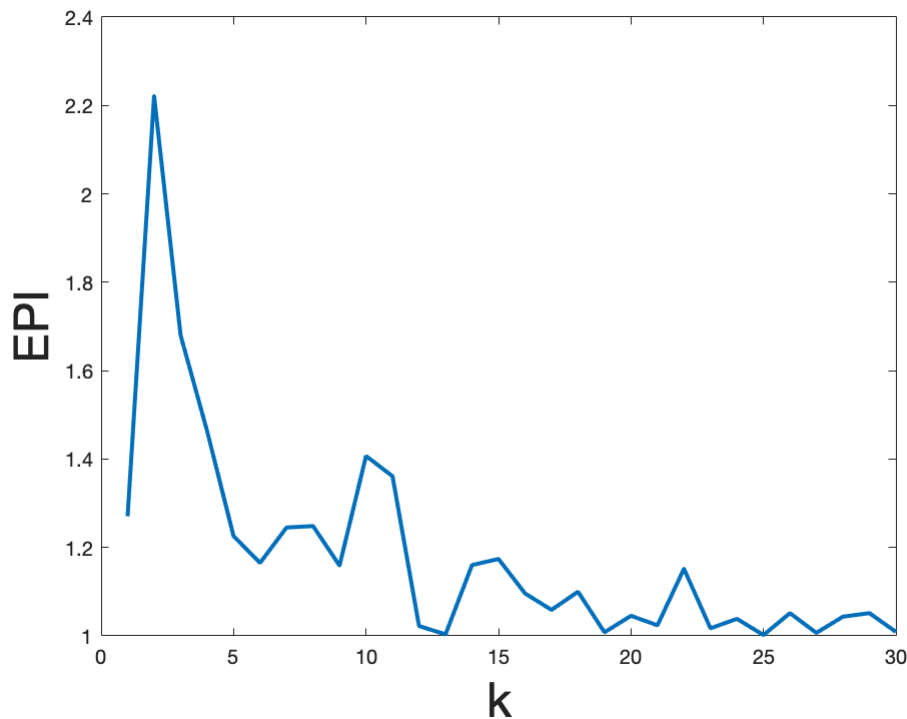
Mean value of sigma: 0.35425

Minimum value of sigma: 0.23401

Maximum value of sigma: 0.47158

```
plot(out.ratio(1:30),'linewidth',2.0)  
xlabel('k', 'FontSize', 24);
```

```
ylabel('EPI', 'FontSize', 24);
```



## Initial visualization by tSNE

```
rng(1)
choice_distance = 'cosine';
Dist = squareform(pdist (data,choice_distance));
ydata = tsne_d(Dist);
```

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 38.8168

Iteration 20: error is 36.9587

Iteration 30: error is 36.704  
Iteration 40: error is 37.516  
Iteration 50: error is 36.967  
Iteration 60: error is 36.9461  
Iteration 70: error is 37.435  
Iteration 80: error is 37.5462  
Iteration 90: error is 37.6004  
Iteration 100: error is 2.3453  
Iteration 110: error is 1.2956  
Iteration 120: error is 0.93386  
Iteration 130: error is 0.79456  
Iteration 140: error is 0.6985  
Iteration 150: error is 0.66023  
Iteration 160: error is 0.65478  
Iteration 170: error is 0.65056  
Iteration 180: error is 0.64754  
Iteration 190: error is 0.64502  
Iteration 200: error is 0.64309  
Iteration 210: error is 0.64146  
Iteration 220: error is 0.64012  
Iteration 230: error is 0.639

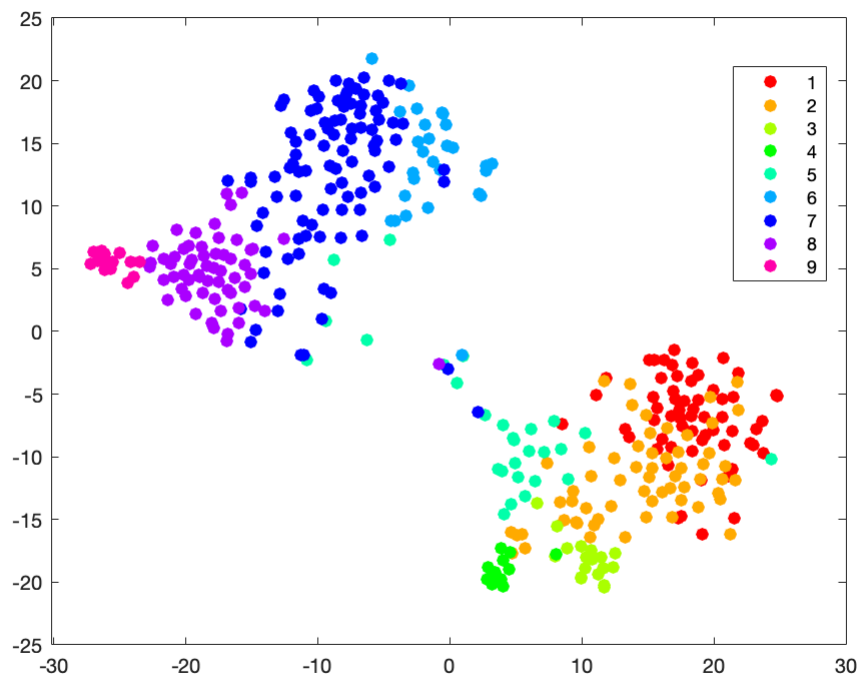
Iteration	240:	error	is	0.63808
Iteration	250:	error	is	0.63723
Iteration	260:	error	is	0.63593
Iteration	270:	error	is	0.63452
Iteration	280:	error	is	0.63337
Iteration	290:	error	is	0.63259
Iteration	300:	error	is	0.632
Iteration	310:	error	is	0.63154
Iteration	320:	error	is	0.63117
Iteration	330:	error	is	0.63087
Iteration	340:	error	is	0.63062
Iteration	350:	error	is	0.63042
Iteration	360:	error	is	0.63025
Iteration	370:	error	is	0.63011
Iteration	380:	error	is	0.63
Iteration	390:	error	is	0.6299
Iteration	400:	error	is	0.62982
Iteration	410:	error	is	0.62974
Iteration	420:	error	is	0.62968
Iteration	430:	error	is	0.62963
Iteration	440:	error	is	0.62959

Iteration	450:	error	is	0.62955
Iteration	460:	error	is	0.62951
Iteration	470:	error	is	0.62948
Iteration	480:	error	is	0.62946
Iteration	490:	error	is	0.62943
Iteration	500:	error	is	0.62941
Iteration	510:	error	is	0.6294
Iteration	520:	error	is	0.62938
Iteration	530:	error	is	0.62937
Iteration	540:	error	is	0.62936
Iteration	550:	error	is	0.62934
Iteration	560:	error	is	0.62934
Iteration	570:	error	is	0.62933
Iteration	580:	error	is	0.62932
Iteration	590:	error	is	0.62931
Iteration	600:	error	is	0.62931
Iteration	610:	error	is	0.6293
Iteration	620:	error	is	0.6293
Iteration	630:	error	is	0.62929
Iteration	640:	error	is	0.62929
Iteration	650:	error	is	0.62929

Iteration 660: error is 0.62928  
Iteration 670: error is 0.62928  
Iteration 680: error is 0.62928  
Iteration 690: error is 0.62928  
Iteration 700: error is 0.62928  
Iteration 710: error is 0.62927  
Iteration 720: error is 0.62927  
Iteration 730: error is 0.62927  
Iteration 740: error is 0.62927  
Iteration 750: error is 0.62927  
Iteration 760: error is 0.62927  
Iteration 770: error is 0.62927  
Iteration 780: error is 0.62927  
Iteration 790: error is 0.62927  
Iteration 800: error is 0.62927  
Iteration 810: error is 0.62926  
Iteration 820: error is 0.62926  
Iteration 830: error is 0.62926  
Iteration 840: error is 0.62926  
Iteration 850: error is 0.62926  
Iteration 860: error is 0.62926

Iteration 870: error is 0.62926  
Iteration 880: error is 0.62926  
Iteration 890: error is 0.62926  
Iteration 900: error is 0.62926  
Iteration 910: error is 0.62926  
Iteration 920: error is 0.62926  
Iteration 930: error is 0.62926  
Iteration 940: error is 0.62926  
Iteration 950: error is 0.62926  
Iteration 960: error is 0.62926  
Iteration 970: error is 0.62926  
Iteration 980: error is 0.62926  
Iteration 990: error is 0.62926  
Iteration 1000: error is 0.62926

```
score = ydata;  
figure;  
gscatter(score(:,1),score(:,2),true_label)
```



```
score_tsne = score;
```

## MuTrans Dynamical Analysis of the Single-Cell Data

parameter and option settings

```
rng(1)
par.perplex = 150;
par.K_cluster = 10;
par.trials = 100;
par.alpha_scale = 0.5;
par.weight_scale = false;
```



```
par.true_labs = true_labs;
```

```
% Dynamical Analysis and Output
```

```
tic;
```

```
Output = DynamicalAnalysis (data, par);
```

```
Mean value of sigma: 0.35425
```

```
Minimum value of sigma: 0.23401
```

```
Maximum value of sigma: 0.47158
```

```
Mean value of sigma: 0.16017
```

```
Minimum value of sigma: 0.1114
```

```
Maximum value of sigma: 0.27312
```

```
Iteration 10: error is 38.8168
```

```
Iteration 20: error is 36.9587
```

```
Iteration 30: error is 36.704
```

```
Iteration 40: error is 37.516
```

```
Iteration 50: error is 36.967
```

```
Iteration 60: error is 36.9461
```

```
Iteration 70: error is 37.435
```

```
Iteration 80: error is 37.5462
```

```
Iteration 90: error is 37.6004
```

```
Iteration 100: error is 2.3453
```

Iteration	110:	error	is	1.2956
Iteration	120:	error	is	0.93386
Iteration	130:	error	is	0.79456
Iteration	140:	error	is	0.6985
Iteration	150:	error	is	0.66023
Iteration	160:	error	is	0.65478
Iteration	170:	error	is	0.65056
Iteration	180:	error	is	0.64754
Iteration	190:	error	is	0.64502
Iteration	200:	error	is	0.64309
Iteration	210:	error	is	0.64146
Iteration	220:	error	is	0.64012
Iteration	230:	error	is	0.639
Iteration	240:	error	is	0.63808
Iteration	250:	error	is	0.63723
Iteration	260:	error	is	0.63593
Iteration	270:	error	is	0.63452
Iteration	280:	error	is	0.63337
Iteration	290:	error	is	0.63259
Iteration	300:	error	is	0.632
Iteration	310:	error	is	0.63154

Iteration	320:	error	is	0.63117
Iteration	330:	error	is	0.63087
Iteration	340:	error	is	0.63062
Iteration	350:	error	is	0.63042
Iteration	360:	error	is	0.63025
Iteration	370:	error	is	0.63011
Iteration	380:	error	is	0.63
Iteration	390:	error	is	0.6299
Iteration	400:	error	is	0.62982
Iteration	410:	error	is	0.62974
Iteration	420:	error	is	0.62968
Iteration	430:	error	is	0.62963
Iteration	440:	error	is	0.62959
Iteration	450:	error	is	0.62955
Iteration	460:	error	is	0.62951
Iteration	470:	error	is	0.62948
Iteration	480:	error	is	0.62946
Iteration	490:	error	is	0.62943
Iteration	500:	error	is	0.62941
Iteration	510:	error	is	0.6294
Iteration	520:	error	is	0.62938

Iteration	530:	error	is	0.62937
Iteration	540:	error	is	0.62936
Iteration	550:	error	is	0.62934
Iteration	560:	error	is	0.62934
Iteration	570:	error	is	0.62933
Iteration	580:	error	is	0.62932
Iteration	590:	error	is	0.62931
Iteration	600:	error	is	0.62931
Iteration	610:	error	is	0.6293
Iteration	620:	error	is	0.6293
Iteration	630:	error	is	0.62929
Iteration	640:	error	is	0.62929
Iteration	650:	error	is	0.62929
Iteration	660:	error	is	0.62928
Iteration	670:	error	is	0.62928
Iteration	680:	error	is	0.62928
Iteration	690:	error	is	0.62928
Iteration	700:	error	is	0.62928
Iteration	710:	error	is	0.62927
Iteration	720:	error	is	0.62927
Iteration	730:	error	is	0.62927

Iteration 740: error is 0.62927  
Iteration 750: error is 0.62927  
Iteration 760: error is 0.62927  
Iteration 770: error is 0.62927  
Iteration 780: error is 0.62927  
Iteration 790: error is 0.62927  
Iteration 800: error is 0.62927  
Iteration 810: error is 0.62926  
Iteration 820: error is 0.62926  
Iteration 830: error is 0.62926  
Iteration 840: error is 0.62926  
Iteration 850: error is 0.62926  
Iteration 860: error is 0.62926  
Iteration 870: error is 0.62926  
Iteration 880: error is 0.62926  
Iteration 890: error is 0.62926  
Iteration 900: error is 0.62926  
Iteration 910: error is 0.62926  
Iteration 920: error is 0.62926  
Iteration 930: error is 0.62926  
Iteration 940: error is 0.62926

Iteration 950: error is 0.62926  
Iteration 960: error is 0.62926  
Iteration 970: error is 0.62926  
Iteration 980: error is 0.62926  
Iteration 990: error is 0.62926  
Iteration 1000: error is 0.62926  
J\_new = 0.8010  
J\_new = 0.7856  
J\_new = 0.7618  
J\_new = 0.7527  
J\_new = 0.7452  
J\_new = 0.7447  
J\_new = 0.7457  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.699  
Iteration 20: error is 37.6218  
Iteration 30: error is 37.1324  
Iteration 40: error is 37.186  
Iteration 50: error is 37.4237

Iteration 60: error is 37.6821  
Iteration 70: error is 36.8857  
Iteration 80: error is 37.5977  
Iteration 90: error is 36.9256  
Iteration 100: error is 2.2263  
Iteration 110: error is 1.2845  
Iteration 120: error is 0.91134  
Iteration 130: error is 0.75648  
Iteration 140: error is 0.70717  
Iteration 150: error is 0.67767  
Iteration 160: error is 0.66258  
Iteration 170: error is 0.65774  
Iteration 180: error is 0.65427  
Iteration 190: error is 0.65149  
Iteration 200: error is 0.64938  
Iteration 210: error is 0.64756  
Iteration 220: error is 0.64627  
Iteration 230: error is 0.64493  
Iteration 240: error is 0.64395  
Iteration 250: error is 0.64309  
Iteration 260: error is 0.64172

Iteration	270:	error	is	0.64033
Iteration	280:	error	is	0.63926
Iteration	290:	error	is	0.63847
Iteration	300:	error	is	0.63789
Iteration	310:	error	is	0.63744
Iteration	320:	error	is	0.63707
Iteration	330:	error	is	0.63678
Iteration	340:	error	is	0.63655
Iteration	350:	error	is	0.63635
Iteration	360:	error	is	0.63619
Iteration	370:	error	is	0.63606
Iteration	380:	error	is	0.63595
Iteration	390:	error	is	0.63586
Iteration	400:	error	is	0.63579
Iteration	410:	error	is	0.63572
Iteration	420:	error	is	0.63566
Iteration	430:	error	is	0.63562
Iteration	440:	error	is	0.63557
Iteration	450:	error	is	0.63554
Iteration	460:	error	is	0.63551
Iteration	470:	error	is	0.63548



Iteration	480:	error	is	0.63545
Iteration	490:	error	is	0.63543
Iteration	500:	error	is	0.63542
Iteration	510:	error	is	0.6354
Iteration	520:	error	is	0.63539
Iteration	530:	error	is	0.63537
Iteration	540:	error	is	0.63536
Iteration	550:	error	is	0.63535
Iteration	560:	error	is	0.63534
Iteration	570:	error	is	0.63534
Iteration	580:	error	is	0.63533
Iteration	590:	error	is	0.63532
Iteration	600:	error	is	0.63532
Iteration	610:	error	is	0.63531
Iteration	620:	error	is	0.63531
Iteration	630:	error	is	0.6353
Iteration	640:	error	is	0.6353
Iteration	650:	error	is	0.6353
Iteration	660:	error	is	0.63529
Iteration	670:	error	is	0.63529
Iteration	680:	error	is	0.63529

Iteration 690: error is 0.63529  
Iteration 700: error is 0.63529  
Iteration 710: error is 0.63528  
Iteration 720: error is 0.63528  
Iteration 730: error is 0.63528  
Iteration 740: error is 0.63528  
Iteration 750: error is 0.63528  
Iteration 760: error is 0.63528  
Iteration 770: error is 0.63528  
Iteration 780: error is 0.63528  
Iteration 790: error is 0.63528  
Iteration 800: error is 0.63527  
Iteration 810: error is 0.63527  
Iteration 820: error is 0.63527  
Iteration 830: error is 0.63527  
Iteration 840: error is 0.63527  
Iteration 850: error is 0.63527  
Iteration 860: error is 0.63527  
Iteration 870: error is 0.63527  
Iteration 880: error is 0.63527  
Iteration 890: error is 0.63527

Iteration 900: error is 0.63527  
Iteration 910: error is 0.63527  
Iteration 920: error is 0.63527  
Iteration 930: error is 0.63527  
Iteration 940: error is 0.63527  
Iteration 950: error is 0.63527  
Iteration 960: error is 0.63527  
Iteration 970: error is 0.63527  
Iteration 980: error is 0.63527  
Iteration 990: error is 0.63527  
Iteration 1000: error is 0.63527  
J\_new = 0.8446  
J\_new = 0.8322  
J\_new = 0.8227  
J\_new = 0.8215  
J\_new = 0.8224  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.6841  
Iteration 20: error is 37.0154

Iteration 30: error is 36.2829  
Iteration 40: error is 37.1514  
Iteration 50: error is 37.4457  
Iteration 60: error is 37.2178  
Iteration 70: error is 37.7066  
Iteration 80: error is 37.2182  
Iteration 90: error is 37.7304  
Iteration 100: error is 2.1254  
Iteration 110: error is 1.255  
Iteration 120: error is 0.808  
Iteration 130: error is 0.7124  
Iteration 140: error is 0.68225  
Iteration 150: error is 0.67087  
Iteration 160: error is 0.66272  
Iteration 170: error is 0.65805  
Iteration 180: error is 0.6544  
Iteration 190: error is 0.65163  
Iteration 200: error is 0.64937  
Iteration 210: error is 0.64784  
Iteration 220: error is 0.64606  
Iteration 230: error is 0.64483

Iteration	240:	error	is	0.64376
Iteration	250:	error	is	0.64286
Iteration	260:	error	is	0.64143
Iteration	270:	error	is	0.63993
Iteration	280:	error	is	0.63875
Iteration	290:	error	is	0.63784
Iteration	300:	error	is	0.63716
Iteration	310:	error	is	0.63666
Iteration	320:	error	is	0.63625
Iteration	330:	error	is	0.63593
Iteration	340:	error	is	0.63567
Iteration	350:	error	is	0.63545
Iteration	360:	error	is	0.63527
Iteration	370:	error	is	0.63512
Iteration	380:	error	is	0.63501
Iteration	390:	error	is	0.6349
Iteration	400:	error	is	0.63481
Iteration	410:	error	is	0.63473
Iteration	420:	error	is	0.63467
Iteration	430:	error	is	0.63461
Iteration	440:	error	is	0.63456

Iteration	450:	error	is	0.63452
Iteration	460:	error	is	0.63449
Iteration	470:	error	is	0.63445
Iteration	480:	error	is	0.63442
Iteration	490:	error	is	0.6344
Iteration	500:	error	is	0.63438
Iteration	510:	error	is	0.63436
Iteration	520:	error	is	0.63434
Iteration	530:	error	is	0.63433
Iteration	540:	error	is	0.63431
Iteration	550:	error	is	0.6343
Iteration	560:	error	is	0.63429
Iteration	570:	error	is	0.63428
Iteration	580:	error	is	0.63427
Iteration	590:	error	is	0.63426
Iteration	600:	error	is	0.63426
Iteration	610:	error	is	0.63425
Iteration	620:	error	is	0.63425
Iteration	630:	error	is	0.63424
Iteration	640:	error	is	0.63424
Iteration	650:	error	is	0.63423

Iteration 660: error is 0.63423  
Iteration 670: error is 0.63423  
Iteration 680: error is 0.63422  
Iteration 690: error is 0.63422  
Iteration 700: error is 0.63422  
Iteration 710: error is 0.63422  
Iteration 720: error is 0.63421  
Iteration 730: error is 0.63421  
Iteration 740: error is 0.63421  
Iteration 750: error is 0.63421  
Iteration 760: error is 0.63421  
Iteration 770: error is 0.63421  
Iteration 780: error is 0.63421  
Iteration 790: error is 0.6342  
Iteration 800: error is 0.6342  
Iteration 810: error is 0.6342  
Iteration 820: error is 0.6342  
Iteration 830: error is 0.6342  
Iteration 840: error is 0.6342  
Iteration 850: error is 0.6342  
Iteration 860: error is 0.6342

Iteration 870: error is 0.6342  
Iteration 880: error is 0.6342  
Iteration 890: error is 0.6342  
Iteration 900: error is 0.6342  
Iteration 910: error is 0.6342  
Iteration 920: error is 0.6342  
Iteration 930: error is 0.6342  
Iteration 940: error is 0.6342  
Iteration 950: error is 0.6342  
Iteration 960: error is 0.6342  
Iteration 970: error is 0.6342  
Iteration 980: error is 0.6342  
Iteration 990: error is 0.6342  
Iteration 1000: error is 0.6342  
J\_new = 0.8090  
J\_new = 0.7909  
J\_new = 0.7623  
J\_new = 0.7525  
J\_new = 0.7448  
J\_new = 0.7444  
J\_new = 0.7453



Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.5673  
Iteration 20: error is 37.3075  
Iteration 30: error is 37.027  
Iteration 40: error is 37.3852  
Iteration 50: error is 36.7441  
Iteration 60: error is 37.3944  
Iteration 70: error is 37.558  
Iteration 80: error is 36.7687  
Iteration 90: error is 37.556  
Iteration 100: error is 2.1722  
Iteration 110: error is 1.2275  
Iteration 120: error is 0.76975  
Iteration 130: error is 0.69821  
Iteration 140: error is 0.68231  
Iteration 150: error is 0.67258  
Iteration 160: error is 0.66568  
Iteration 170: error is 0.66089  
Iteration 180: error is 0.65713

Iteration	190:	error	is	0.65443
Iteration	200:	error	is	0.65202
Iteration	210:	error	is	0.65016
Iteration	220:	error	is	0.64852
Iteration	230:	error	is	0.64625
Iteration	240:	error	is	0.64487
Iteration	250:	error	is	0.64385
Iteration	260:	error	is	0.64226
Iteration	270:	error	is	0.64069
Iteration	280:	error	is	0.63953
Iteration	290:	error	is	0.63863
Iteration	300:	error	is	0.63795
Iteration	310:	error	is	0.63744
Iteration	320:	error	is	0.63704
Iteration	330:	error	is	0.63671
Iteration	340:	error	is	0.63643
Iteration	350:	error	is	0.63622
Iteration	360:	error	is	0.63604
Iteration	370:	error	is	0.63588
Iteration	380:	error	is	0.63575
Iteration	390:	error	is	0.63564

Iteration	400:	error	is	0.63554
Iteration	410:	error	is	0.63547
Iteration	420:	error	is	0.6354
Iteration	430:	error	is	0.63533
Iteration	440:	error	is	0.63528
Iteration	450:	error	is	0.63524
Iteration	460:	error	is	0.6352
Iteration	470:	error	is	0.63516
Iteration	480:	error	is	0.63513
Iteration	490:	error	is	0.6351
Iteration	500:	error	is	0.63508
Iteration	510:	error	is	0.63506
Iteration	520:	error	is	0.63504
Iteration	530:	error	is	0.63502
Iteration	540:	error	is	0.63501
Iteration	550:	error	is	0.635
Iteration	560:	error	is	0.63499
Iteration	570:	error	is	0.63497
Iteration	580:	error	is	0.63497
Iteration	590:	error	is	0.63496
Iteration	600:	error	is	0.63495

Iteration 610: error is 0.63494  
Iteration 620: error is 0.63494  
Iteration 630: error is 0.63493  
Iteration 640: error is 0.63493  
Iteration 650: error is 0.63492  
Iteration 660: error is 0.63492  
Iteration 670: error is 0.63491  
Iteration 680: error is 0.63491  
Iteration 690: error is 0.63491  
Iteration 700: error is 0.6349  
Iteration 710: error is 0.6349  
Iteration 720: error is 0.6349  
Iteration 730: error is 0.6349  
Iteration 740: error is 0.6349  
Iteration 750: error is 0.63489  
Iteration 760: error is 0.63489  
Iteration 770: error is 0.63489  
Iteration 780: error is 0.63489  
Iteration 790: error is 0.63489  
Iteration 800: error is 0.63489  
Iteration 810: error is 0.63489

Iteration 820: error is 0.63489  
Iteration 830: error is 0.63488  
Iteration 840: error is 0.63488  
Iteration 850: error is 0.63488  
Iteration 860: error is 0.63488  
Iteration 870: error is 0.63488  
Iteration 880: error is 0.63488  
Iteration 890: error is 0.63488  
Iteration 900: error is 0.63488  
Iteration 910: error is 0.63488  
Iteration 920: error is 0.63488  
Iteration 930: error is 0.63488  
Iteration 940: error is 0.63488  
Iteration 950: error is 0.63488  
Iteration 960: error is 0.63488  
Iteration 970: error is 0.63488  
Iteration 980: error is 0.63488  
Iteration 990: error is 0.63488  
Iteration 1000: error is 0.63488  
J\_new = 0.8513  
J\_new = 0.8274

J\_new = 0.8155  
J\_new = 0.8119  
J\_new = 0.8102  
J\_new = 0.8057  
J\_new = 0.8010  
J\_new = 0.7854  
J\_new = 0.7435  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.4508  
Iteration 20: error is 37.3282  
Iteration 30: error is 37.0523  
Iteration 40: error is 37.165  
Iteration 50: error is 37.0856  
Iteration 60: error is 37.4802  
Iteration 70: error is 37.5396  
Iteration 80: error is 37.5722  
Iteration 90: error is 37.7045

Iteration	100:	error	is	2.3521
Iteration	110:	error	is	1.3028
Iteration	120:	error	is	0.95392
Iteration	130:	error	is	0.83373
Iteration	140:	error	is	0.6911
Iteration	150:	error	is	0.66867
Iteration	160:	error	is	0.66258
Iteration	170:	error	is	0.65815
Iteration	180:	error	is	0.65502
Iteration	190:	error	is	0.65255
Iteration	200:	error	is	0.65048
Iteration	210:	error	is	0.64889
Iteration	220:	error	is	0.64743
Iteration	230:	error	is	0.64628
Iteration	240:	error	is	0.64527
Iteration	250:	error	is	0.64443
Iteration	260:	error	is	0.64309
Iteration	270:	error	is	0.64168
Iteration	280:	error	is	0.6406
Iteration	290:	error	is	0.63979
Iteration	300:	error	is	0.6392

Iteration	310:	error	is	0.63873
Iteration	320:	error	is	0.63836
Iteration	330:	error	is	0.63807
Iteration	340:	error	is	0.63783
Iteration	350:	error	is	0.63764
Iteration	360:	error	is	0.63749
Iteration	370:	error	is	0.63735
Iteration	380:	error	is	0.63724
Iteration	390:	error	is	0.63716
Iteration	400:	error	is	0.63708
Iteration	410:	error	is	0.63701
Iteration	420:	error	is	0.63696
Iteration	430:	error	is	0.63691
Iteration	440:	error	is	0.63686
Iteration	450:	error	is	0.63683
Iteration	460:	error	is	0.6368
Iteration	470:	error	is	0.63677
Iteration	480:	error	is	0.63674
Iteration	490:	error	is	0.63672
Iteration	500:	error	is	0.6367
Iteration	510:	error	is	0.63669



Iteration	520:	error	is	0.63667
Iteration	530:	error	is	0.63666
Iteration	540:	error	is	0.63665
Iteration	550:	error	is	0.63664
Iteration	560:	error	is	0.63663
Iteration	570:	error	is	0.63663
Iteration	580:	error	is	0.63662
Iteration	590:	error	is	0.63661
Iteration	600:	error	is	0.63661
Iteration	610:	error	is	0.6366
Iteration	620:	error	is	0.6366
Iteration	630:	error	is	0.6366
Iteration	640:	error	is	0.63659
Iteration	650:	error	is	0.63659
Iteration	660:	error	is	0.63659
Iteration	670:	error	is	0.63659
Iteration	680:	error	is	0.63658
Iteration	690:	error	is	0.63658
Iteration	700:	error	is	0.63658
Iteration	710:	error	is	0.63658
Iteration	720:	error	is	0.63658

Iteration 730: error is 0.63658  
Iteration 740: error is 0.63657  
Iteration 750: error is 0.63657  
Iteration 760: error is 0.63657  
Iteration 770: error is 0.63657  
Iteration 780: error is 0.63657  
Iteration 790: error is 0.63657  
Iteration 800: error is 0.63657  
Iteration 810: error is 0.63657  
Iteration 820: error is 0.63657  
Iteration 830: error is 0.63657  
Iteration 840: error is 0.63657  
Iteration 850: error is 0.63657  
Iteration 860: error is 0.63657  
Iteration 870: error is 0.63657  
Iteration 880: error is 0.63657  
Iteration 890: error is 0.63657  
Iteration 900: error is 0.63657  
Iteration 910: error is 0.63657  
Iteration 920: error is 0.63657  
Iteration 930: error is 0.63657

Iteration 940: error is 0.63657  
Iteration 950: error is 0.63657  
Iteration 960: error is 0.63657  
Iteration 970: error is 0.63657  
Iteration 980: error is 0.63657  
Iteration 990: error is 0.63657  
Iteration 1000: error is 0.63657  
J\_new = 0.8441  
J\_new = 0.8274  
J\_new = 0.8165  
J\_new = 0.8145  
J\_new = 0.8122  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.9307  
Iteration 20: error is 37.4016  
Iteration 30: error is 36.6906  
Iteration 40: error is 37.1525  
Iteration 50: error is 37.2617  
Iteration 60: error is 37.4248  
Iteration 70: error is 37.0431  
Iteration 80: error is 37.3489  
Iteration 90: error is 37.5493  
Iteration 100: error is 2.2807  
Iteration 110: error is 1.2888  
Iteration 120: error is 0.83559  
Iteration 130: error is 0.69718  
Iteration 140: error is 0.68178  
Iteration 150: error is 0.66965  
Iteration 160: error is 0.663  
Iteration 170: error is 0.65819  
Iteration 180: error is 0.65461  
Iteration 190: error is 0.65177

Iteration	200:	error	is	0.64952
Iteration	210:	error	is	0.64771
Iteration	220:	error	is	0.64623
Iteration	230:	error	is	0.64499
Iteration	240:	error	is	0.64391
Iteration	250:	error	is	0.64301
Iteration	260:	error	is	0.64157
Iteration	270:	error	is	0.64003
Iteration	280:	error	is	0.63893
Iteration	290:	error	is	0.6381
Iteration	300:	error	is	0.63745
Iteration	310:	error	is	0.63694
Iteration	320:	error	is	0.63656
Iteration	330:	error	is	0.63625
Iteration	340:	error	is	0.636
Iteration	350:	error	is	0.63579
Iteration	360:	error	is	0.63563
Iteration	370:	error	is	0.63548
Iteration	380:	error	is	0.63536
Iteration	390:	error	is	0.63526
Iteration	400:	error	is	0.63517

Iteration	410:	error	is	0.6351
Iteration	420:	error	is	0.63503
Iteration	430:	error	is	0.63498
Iteration	440:	error	is	0.63493
Iteration	450:	error	is	0.63489
Iteration	460:	error	is	0.63486
Iteration	470:	error	is	0.63482
Iteration	480:	error	is	0.6348
Iteration	490:	error	is	0.63477
Iteration	500:	error	is	0.63475
Iteration	510:	error	is	0.63473
Iteration	520:	error	is	0.63472
Iteration	530:	error	is	0.6347
Iteration	540:	error	is	0.63469
Iteration	550:	error	is	0.63468
Iteration	560:	error	is	0.63467
Iteration	570:	error	is	0.63466
Iteration	580:	error	is	0.63465
Iteration	590:	error	is	0.63465
Iteration	600:	error	is	0.63464
Iteration	610:	error	is	0.63463

Iteration	620:	error	is	0.63463
Iteration	630:	error	is	0.63462
Iteration	640:	error	is	0.63462
Iteration	650:	error	is	0.63462
Iteration	660:	error	is	0.63461
Iteration	670:	error	is	0.63461
Iteration	680:	error	is	0.63461
Iteration	690:	error	is	0.63461
Iteration	700:	error	is	0.6346
Iteration	710:	error	is	0.6346
Iteration	720:	error	is	0.6346
Iteration	730:	error	is	0.6346
Iteration	740:	error	is	0.6346
Iteration	750:	error	is	0.6346
Iteration	760:	error	is	0.63459
Iteration	770:	error	is	0.63459
Iteration	780:	error	is	0.63459
Iteration	790:	error	is	0.63459
Iteration	800:	error	is	0.63459
Iteration	810:	error	is	0.63459
Iteration	820:	error	is	0.63459

Iteration 830: error is 0.63459  
Iteration 840: error is 0.63459  
Iteration 850: error is 0.63459  
Iteration 860: error is 0.63459  
Iteration 870: error is 0.63459  
Iteration 880: error is 0.63459  
Iteration 890: error is 0.63459  
Iteration 900: error is 0.63459  
Iteration 910: error is 0.63459  
Iteration 920: error is 0.63459  
Iteration 930: error is 0.63459  
Iteration 940: error is 0.63459  
Iteration 950: error is 0.63458  
Iteration 960: error is 0.63458  
Iteration 970: error is 0.63458  
Iteration 980: error is 0.63458  
Iteration 990: error is 0.63458  
Iteration 1000: error is 0.63458  
J\_new = 0.8363  
J\_new = 0.8202  
J\_new = 0.8167



J\_new = 0.8159  
J\_new = 0.8136  
J\_new = 0.8117  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.032  
Iteration 20: error is 37.2251  
Iteration 30: error is 36.8731  
Iteration 40: error is 37.0864  
Iteration 50: error is 37.2202  
Iteration 60: error is 37.5003  
Iteration 70: error is 37.8653

Iteration 80: error is 37.7699  
Iteration 90: error is 37.9647  
Iteration 100: error is 2.2186  
Iteration 110: error is 1.5456  
Iteration 120: error is 1.1612  
Iteration 130: error is 0.97206  
Iteration 140: error is 0.89359  
Iteration 150: error is 0.73161  
Iteration 160: error is 0.72242  
Iteration 170: error is 0.67368  
Iteration 180: error is 0.6529  
Iteration 190: error is 0.65208  
Iteration 200: error is 0.64636  
Iteration 210: error is 0.64494  
Iteration 220: error is 0.64358  
Iteration 230: error is 0.64233  
Iteration 240: error is 0.64143  
Iteration 250: error is 0.64069  
Iteration 260: error is 0.6395  
Iteration 270: error is 0.63824  
Iteration 280: error is 0.63731

Iteration	290:	error	is	0.63663
Iteration	300:	error	is	0.63611
Iteration	310:	error	is	0.6357
Iteration	320:	error	is	0.63537
Iteration	330:	error	is	0.63511
Iteration	340:	error	is	0.63491
Iteration	350:	error	is	0.63473
Iteration	360:	error	is	0.63459
Iteration	370:	error	is	0.63447
Iteration	380:	error	is	0.63438
Iteration	390:	error	is	0.63429
Iteration	400:	error	is	0.63422
Iteration	410:	error	is	0.63416
Iteration	420:	error	is	0.63392
Iteration	430:	error	is	0.63402
Iteration	440:	error	is	0.63366
Iteration	450:	error	is	0.63361
Iteration	460:	error	is	0.63358
Iteration	470:	error	is	0.63355
Iteration	480:	error	is	0.63353
Iteration	490:	error	is	0.63351

Iteration	500:	error	is	0.63349
Iteration	510:	error	is	0.63347
Iteration	520:	error	is	0.63346
Iteration	530:	error	is	0.63345
Iteration	540:	error	is	0.63344
Iteration	550:	error	is	0.63343
Iteration	560:	error	is	0.63342
Iteration	570:	error	is	0.63341
Iteration	580:	error	is	0.63341
Iteration	590:	error	is	0.6334
Iteration	600:	error	is	0.63339
Iteration	610:	error	is	0.63339
Iteration	620:	error	is	0.63339
Iteration	630:	error	is	0.63338
Iteration	640:	error	is	0.63338
Iteration	650:	error	is	0.63338
Iteration	660:	error	is	0.63337
Iteration	670:	error	is	0.63337
Iteration	680:	error	is	0.63337
Iteration	690:	error	is	0.63337
Iteration	700:	error	is	0.63337

Iteration	710:	error	is	0.63337
Iteration	720:	error	is	0.63336
Iteration	730:	error	is	0.63336
Iteration	740:	error	is	0.63336
Iteration	750:	error	is	0.63336
Iteration	760:	error	is	0.63336
Iteration	770:	error	is	0.63336
Iteration	780:	error	is	0.63336
Iteration	790:	error	is	0.63336
Iteration	800:	error	is	0.63336
Iteration	810:	error	is	0.63336
Iteration	820:	error	is	0.63336
Iteration	830:	error	is	0.63336
Iteration	840:	error	is	0.63336
Iteration	850:	error	is	0.63336
Iteration	860:	error	is	0.63336
Iteration	870:	error	is	0.63336
Iteration	880:	error	is	0.63335
Iteration	890:	error	is	0.63335
Iteration	900:	error	is	0.63335
Iteration	910:	error	is	0.63335

Iteration 920: error is 0.63335  
Iteration 930: error is 0.63335  
Iteration 940: error is 0.63335  
Iteration 950: error is 0.63335  
Iteration 960: error is 0.63335  
Iteration 970: error is 0.63335  
Iteration 980: error is 0.63335  
Iteration 990: error is 0.63335  
Iteration 1000: error is 0.63335  
J\_new = 0.7890  
J\_new = 0.7614  
J\_new = 0.7524  
J\_new = 0.7448  
J\_new = 0.7444  
J\_new = 0.7453  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.8452  
Iteration 20: error is 36.8708  
Iteration 30: error is 37.2209

Iteration 40: error is 37.3125  
Iteration 50: error is 37.2101  
Iteration 60: error is 37.5151  
Iteration 70: error is 36.8521  
Iteration 80: error is 37.6564  
Iteration 90: error is 37.6055  
Iteration 100: error is 2.2291  
Iteration 110: error is 1.3095  
Iteration 120: error is 1.0519  
Iteration 130: error is 0.911  
Iteration 140: error is 0.80854  
Iteration 150: error is 0.68966  
Iteration 160: error is 0.68547  
Iteration 170: error is 0.66962  
Iteration 180: error is 0.66633  
Iteration 190: error is 0.6636  
Iteration 200: error is 0.66161  
Iteration 210: error is 0.65983  
Iteration 220: error is 0.65842  
Iteration 230: error is 0.65748  
Iteration 240: error is 0.65622

Iteration	250:	error	is	0.65535
Iteration	260:	error	is	0.65397
Iteration	270:	error	is	0.65243
Iteration	280:	error	is	0.65132
Iteration	290:	error	is	0.65053
Iteration	300:	error	is	0.64992
Iteration	310:	error	is	0.64943
Iteration	320:	error	is	0.64904
Iteration	330:	error	is	0.64873
Iteration	340:	error	is	0.64847
Iteration	350:	error	is	0.64826
Iteration	360:	error	is	0.64809
Iteration	370:	error	is	0.64794
Iteration	380:	error	is	0.64781
Iteration	390:	error	is	0.64771
Iteration	400:	error	is	0.64762
Iteration	410:	error	is	0.64754
Iteration	420:	error	is	0.64747
Iteration	430:	error	is	0.64742
Iteration	440:	error	is	0.64737
Iteration	450:	error	is	0.64732



Iteration	460:	error	is	0.64729
Iteration	470:	error	is	0.64725
Iteration	480:	error	is	0.64722
Iteration	490:	error	is	0.6472
Iteration	500:	error	is	0.64718
Iteration	510:	error	is	0.64716
Iteration	520:	error	is	0.64714
Iteration	530:	error	is	0.64712
Iteration	540:	error	is	0.64711
Iteration	550:	error	is	0.64709
Iteration	560:	error	is	0.64708
Iteration	570:	error	is	0.64707
Iteration	580:	error	is	0.64706
Iteration	590:	error	is	0.64705
Iteration	600:	error	is	0.64705
Iteration	610:	error	is	0.64704
Iteration	620:	error	is	0.64703
Iteration	630:	error	is	0.64703
Iteration	640:	error	is	0.64702
Iteration	650:	error	is	0.64702
Iteration	660:	error	is	0.64701

Iteration 670: error is 0.64701  
Iteration 680: error is 0.647  
Iteration 690: error is 0.647  
Iteration 700: error is 0.647  
Iteration 710: error is 0.64699  
Iteration 720: error is 0.64699  
Iteration 730: error is 0.64699  
Iteration 740: error is 0.64699  
Iteration 750: error is 0.64698  
Iteration 760: error is 0.64698  
Iteration 770: error is 0.64698  
Iteration 780: error is 0.64698  
Iteration 790: error is 0.64698  
Iteration 800: error is 0.64698  
Iteration 810: error is 0.64697  
Iteration 820: error is 0.64697  
Iteration 830: error is 0.64697  
Iteration 840: error is 0.64697  
Iteration 850: error is 0.64697  
Iteration 860: error is 0.64697  
Iteration 870: error is 0.64697

Iteration 880: error is 0.64697  
Iteration 890: error is 0.64697  
Iteration 900: error is 0.64696  
Iteration 910: error is 0.64696  
Iteration 920: error is 0.64696  
Iteration 930: error is 0.64696  
Iteration 940: error is 0.64696  
Iteration 950: error is 0.64696  
Iteration 960: error is 0.64696  
Iteration 970: error is 0.64696  
Iteration 980: error is 0.64696  
Iteration 990: error is 0.64696  
Iteration 1000: error is 0.64696  
J\_new = 0.8711  
J\_new = 0.8422  
J\_new = 0.8223  
J\_new = 0.8115  
J\_new = 0.8090  
J\_new = 0.8064  
J\_new = 0.7997  
J\_new = 0.7860

J\_new = 0.7422

J\_new = 0.7425

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.6785

Iteration 20: error is 36.5532

Iteration 30: error is 36.3915

Iteration 40: error is 36.4791

Iteration 50: error is 36.8499

Iteration 60: error is 36.8137

Iteration 70: error is 36.9157

Iteration 80: error is 36.9918

Iteration 90: error is 37.8186

Iteration 100: error is 2.2581

Iteration 110: error is 1.2752

Iteration 120: error is 0.91516

Iteration 130: error is 0.77904

Iteration 140: error is 0.73195

Iteration 150: error is 0.67895

Iteration 160: error is 0.67064

Iteration	170:	error	is	0.66638
Iteration	180:	error	is	0.66318
Iteration	190:	error	is	0.6607
Iteration	200:	error	is	0.65867
Iteration	210:	error	is	0.65701
Iteration	220:	error	is	0.65567
Iteration	230:	error	is	0.65451
Iteration	240:	error	is	0.65353
Iteration	250:	error	is	0.6527
Iteration	260:	error	is	0.65136
Iteration	270:	error	is	0.64998
Iteration	280:	error	is	0.64883
Iteration	290:	error	is	0.64801
Iteration	300:	error	is	0.64741
Iteration	310:	error	is	0.64696
Iteration	320:	error	is	0.6466
Iteration	330:	error	is	0.64631
Iteration	340:	error	is	0.64607
Iteration	350:	error	is	0.64588
Iteration	360:	error	is	0.64572
Iteration	370:	error	is	0.64558

Iteration	380:	error	is	0.64547
Iteration	390:	error	is	0.64538
Iteration	400:	error	is	0.6453
Iteration	410:	error	is	0.64524
Iteration	420:	error	is	0.64518
Iteration	430:	error	is	0.64513
Iteration	440:	error	is	0.64509
Iteration	450:	error	is	0.64505
Iteration	460:	error	is	0.64502
Iteration	470:	error	is	0.64499
Iteration	480:	error	is	0.64497
Iteration	490:	error	is	0.64495
Iteration	500:	error	is	0.64493
Iteration	510:	error	is	0.64492
Iteration	520:	error	is	0.6449
Iteration	530:	error	is	0.64489
Iteration	540:	error	is	0.64488
Iteration	550:	error	is	0.64487
Iteration	560:	error	is	0.64486
Iteration	570:	error	is	0.64485
Iteration	580:	error	is	0.64485

Iteration 590: error is 0.64484  
Iteration 600: error is 0.64484  
Iteration 610: error is 0.64483  
Iteration 620: error is 0.64483  
Iteration 630: error is 0.64482  
Iteration 640: error is 0.64482  
Iteration 650: error is 0.64482  
Iteration 660: error is 0.64482  
Iteration 670: error is 0.64481  
Iteration 680: error is 0.64481  
Iteration 690: error is 0.64481  
Iteration 700: error is 0.64481  
Iteration 710: error is 0.64481  
Iteration 720: error is 0.6448  
Iteration 730: error is 0.6448  
Iteration 740: error is 0.6448  
Iteration 750: error is 0.6448  
Iteration 760: error is 0.6448  
Iteration 770: error is 0.6448  
Iteration 780: error is 0.6448  
Iteration 790: error is 0.64479

Iteration 800: error is 0.64478  
Iteration 810: error is 0.64478  
Iteration 820: error is 0.64477  
Iteration 830: error is 0.64477  
Iteration 840: error is 0.64477  
Iteration 850: error is 0.64477  
Iteration 860: error is 0.64477  
Iteration 870: error is 0.64477  
Iteration 880: error is 0.64477  
Iteration 890: error is 0.64477  
Iteration 900: error is 0.64477  
Iteration 910: error is 0.64477  
Iteration 920: error is 0.64477  
Iteration 930: error is 0.64477  
Iteration 940: error is 0.64477  
Iteration 950: error is 0.64477  
Iteration 960: error is 0.64477  
Iteration 970: error is 0.64477  
Iteration 980: error is 0.64477  
Iteration 990: error is 0.64477  
Iteration 1000: error is 0.64477



J\_new = 0.8340  
J\_new = 0.8194  
J\_new = 0.8158  
J\_new = 0.8154  
J\_new = 0.8111  
J\_new = 0.8092  
J\_new = 0.8054  
J\_new = 0.8036  
J\_new = 0.7898  
J\_new = 0.7825  
J\_new = 0.7420  
J\_new = 0.7429  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.1811  
Iteration 20: error is 37.4352  
Iteration 30: error is 37.1782  
Iteration 40: error is 37.3707  
Iteration 50: error is 37.3619  
Iteration 60: error is 37.805

Iteration 70: error is 38.2211  
Iteration 80: error is 37.9647  
Iteration 90: error is 38.6443  
Iteration 100: error is 2.4735  
Iteration 110: error is 1.4213  
Iteration 120: error is 0.86165  
Iteration 130: error is 0.79373  
Iteration 140: error is 0.69251  
Iteration 150: error is 0.68115  
Iteration 160: error is 0.67312  
Iteration 170: error is 0.66813  
Iteration 180: error is 0.66469  
Iteration 190: error is 0.66204  
Iteration 200: error is 0.65987  
Iteration 210: error is 0.65655  
Iteration 220: error is 0.64802  
Iteration 230: error is 0.64389  
Iteration 240: error is 0.64275  
Iteration 250: error is 0.6418  
Iteration 260: error is 0.64026  
Iteration 270: error is 0.63865

Iteration	280:	error	is	0.63742
Iteration	290:	error	is	0.63658
Iteration	300:	error	is	0.63595
Iteration	310:	error	is	0.63545
Iteration	320:	error	is	0.63504
Iteration	330:	error	is	0.63472
Iteration	340:	error	is	0.63445
Iteration	350:	error	is	0.63423
Iteration	360:	error	is	0.63406
Iteration	370:	error	is	0.63391
Iteration	380:	error	is	0.63378
Iteration	390:	error	is	0.63367
Iteration	400:	error	is	0.63358
Iteration	410:	error	is	0.63351
Iteration	420:	error	is	0.63344
Iteration	430:	error	is	0.63338
Iteration	440:	error	is	0.63333
Iteration	450:	error	is	0.63329
Iteration	460:	error	is	0.63326
Iteration	470:	error	is	0.63322
Iteration	480:	error	is	0.63319

Iteration	490:	error	is	0.63317
Iteration	500:	error	is	0.63315
Iteration	510:	error	is	0.63313
Iteration	520:	error	is	0.63311
Iteration	530:	error	is	0.63309
Iteration	540:	error	is	0.63308
Iteration	550:	error	is	0.63307
Iteration	560:	error	is	0.63306
Iteration	570:	error	is	0.63305
Iteration	580:	error	is	0.63304
Iteration	590:	error	is	0.63303
Iteration	600:	error	is	0.63303
Iteration	610:	error	is	0.63302
Iteration	620:	error	is	0.63302
Iteration	630:	error	is	0.63301
Iteration	640:	error	is	0.63301
Iteration	650:	error	is	0.633
Iteration	660:	error	is	0.633
Iteration	670:	error	is	0.633
Iteration	680:	error	is	0.63299
Iteration	690:	error	is	0.63299

Iteration	700:	error	is	0.63299
Iteration	710:	error	is	0.63299
Iteration	720:	error	is	0.63298
Iteration	730:	error	is	0.63298
Iteration	740:	error	is	0.63298
Iteration	750:	error	is	0.63298
Iteration	760:	error	is	0.63298
Iteration	770:	error	is	0.63298
Iteration	780:	error	is	0.63298
Iteration	790:	error	is	0.63298
Iteration	800:	error	is	0.63297
Iteration	810:	error	is	0.63297
Iteration	820:	error	is	0.63297
Iteration	830:	error	is	0.63297
Iteration	840:	error	is	0.63297
Iteration	850:	error	is	0.63297
Iteration	860:	error	is	0.63297
Iteration	870:	error	is	0.63297
Iteration	880:	error	is	0.63297
Iteration	890:	error	is	0.63297
Iteration	900:	error	is	0.63297

Iteration 910: error is 0.63297  
Iteration 920: error is 0.63297  
Iteration 930: error is 0.63297  
Iteration 940: error is 0.63297  
Iteration 950: error is 0.63297  
Iteration 960: error is 0.63297  
Iteration 970: error is 0.63297  
Iteration 980: error is 0.63297  
Iteration 990: error is 0.63297  
Iteration 1000: error is 0.63297  
J\_new = 0.8348  
J\_new = 0.8193  
J\_new = 0.8172  
J\_new = 0.8161  
J\_new = 0.8139  
J\_new = 0.8119  
J\_new = 0.8083  
J\_new = 0.8064  
J\_new = 0.8026  
J\_new = 0.7908  
J\_new = 0.7815

J\_new = 0.7429  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9152  
Iteration 20: error is 37.0837  
Iteration 30: error is 36.7335  
Iteration 40: error is 36.7648  
Iteration 50: error is 36.656  
Iteration 60: error is 37.3426  
Iteration 70: error is 37.3334  
Iteration 80: error is 37.5472  
Iteration 90: error is 37.9992  
Iteration 100: error is 2.3846  
Iteration 110: error is 1.3028  
Iteration 120: error is 0.82037  
Iteration 130: error is 0.72765  
Iteration 140: error is 0.67435  
Iteration 150: error is 0.66227

Iteration	160:	error	is	0.6555
Iteration	170:	error	is	0.65015
Iteration	180:	error	is	0.64735
Iteration	190:	error	is	0.64393
Iteration	200:	error	is	0.64172
Iteration	210:	error	is	0.63978
Iteration	220:	error	is	0.63822
Iteration	230:	error	is	0.63692
Iteration	240:	error	is	0.63591
Iteration	250:	error	is	0.63497
Iteration	260:	error	is	0.63355
Iteration	270:	error	is	0.63206
Iteration	280:	error	is	0.63092
Iteration	290:	error	is	0.63008
Iteration	300:	error	is	0.62944
Iteration	310:	error	is	0.62894
Iteration	320:	error	is	0.62855
Iteration	330:	error	is	0.62824
Iteration	340:	error	is	0.62799
Iteration	350:	error	is	0.62777
Iteration	360:	error	is	0.62759



Iteration	370:	error	is	0.62744
Iteration	380:	error	is	0.62731
Iteration	390:	error	is	0.62721
Iteration	400:	error	is	0.62711
Iteration	410:	error	is	0.62703
Iteration	420:	error	is	0.62697
Iteration	430:	error	is	0.62691
Iteration	440:	error	is	0.62686
Iteration	450:	error	is	0.62682
Iteration	460:	error	is	0.62678
Iteration	470:	error	is	0.62674
Iteration	480:	error	is	0.62672
Iteration	490:	error	is	0.62669
Iteration	500:	error	is	0.62667
Iteration	510:	error	is	0.62665
Iteration	520:	error	is	0.62663
Iteration	530:	error	is	0.62662
Iteration	540:	error	is	0.62661
Iteration	550:	error	is	0.62659
Iteration	560:	error	is	0.62658
Iteration	570:	error	is	0.62657

Iteration	580:	error	is	0.62657
Iteration	590:	error	is	0.62656
Iteration	600:	error	is	0.62655
Iteration	610:	error	is	0.62655
Iteration	620:	error	is	0.62654
Iteration	630:	error	is	0.62654
Iteration	640:	error	is	0.62653
Iteration	650:	error	is	0.62653
Iteration	660:	error	is	0.62653
Iteration	670:	error	is	0.62652
Iteration	680:	error	is	0.62652
Iteration	690:	error	is	0.62652
Iteration	700:	error	is	0.62652
Iteration	710:	error	is	0.62651
Iteration	720:	error	is	0.62651
Iteration	730:	error	is	0.62651
Iteration	740:	error	is	0.62651
Iteration	750:	error	is	0.62651
Iteration	760:	error	is	0.62651
Iteration	770:	error	is	0.62651
Iteration	780:	error	is	0.6265

Iteration 790: error is 0.6265  
Iteration 800: error is 0.6265  
Iteration 810: error is 0.6265  
Iteration 820: error is 0.6265  
Iteration 830: error is 0.6265  
Iteration 840: error is 0.6265  
Iteration 850: error is 0.6265  
Iteration 860: error is 0.6265  
Iteration 870: error is 0.6265  
Iteration 880: error is 0.6265  
Iteration 890: error is 0.6265  
Iteration 900: error is 0.6265  
Iteration 910: error is 0.6265  
Iteration 920: error is 0.6265  
Iteration 930: error is 0.6265  
Iteration 940: error is 0.6265  
Iteration 950: error is 0.6265  
Iteration 960: error is 0.6265  
Iteration 970: error is 0.6265  
Iteration 980: error is 0.6265  
Iteration 990: error is 0.6265

Iteration 1000: error is 0.6265  
J\_new = 0.8061  
J\_new = 0.7916  
J\_new = 0.7639  
J\_new = 0.7484  
J\_new = 0.7397  
J\_new = 0.7390  
J\_new = 0.7401  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.9916  
Iteration 20: error is 37.0418  
Iteration 30: error is 36.5889  
Iteration 40: error is 37.1503  
Iteration 50: error is 37.1379  
Iteration 60: error is 37.6936  
Iteration 70: error is 37.6005  
Iteration 80: error is 37.2716  
Iteration 90: error is 37.7511  
Iteration 100: error is 2.3522

Iteration	110:	error	is	1.2407
Iteration	120:	error	is	0.89383
Iteration	130:	error	is	0.71478
Iteration	140:	error	is	0.69182
Iteration	150:	error	is	0.67576
Iteration	160:	error	is	0.67053
Iteration	170:	error	is	0.6657
Iteration	180:	error	is	0.66237
Iteration	190:	error	is	0.65998
Iteration	200:	error	is	0.65781
Iteration	210:	error	is	0.65605
Iteration	220:	error	is	0.65464
Iteration	230:	error	is	0.65348
Iteration	240:	error	is	0.65251
Iteration	250:	error	is	0.65167
Iteration	260:	error	is	0.65036
Iteration	270:	error	is	0.6489
Iteration	280:	error	is	0.64786
Iteration	290:	error	is	0.64706
Iteration	300:	error	is	0.64646
Iteration	310:	error	is	0.64601

Iteration	320:	error	is	0.64565
Iteration	330:	error	is	0.64535
Iteration	340:	error	is	0.64511
Iteration	350:	error	is	0.64492
Iteration	360:	error	is	0.64476
Iteration	370:	error	is	0.64463
Iteration	380:	error	is	0.64452
Iteration	390:	error	is	0.64443
Iteration	400:	error	is	0.64435
Iteration	410:	error	is	0.64428
Iteration	420:	error	is	0.64423
Iteration	430:	error	is	0.64418
Iteration	440:	error	is	0.64414
Iteration	450:	error	is	0.6441
Iteration	460:	error	is	0.64407
Iteration	470:	error	is	0.64404
Iteration	480:	error	is	0.64402
Iteration	490:	error	is	0.644
Iteration	500:	error	is	0.64398
Iteration	510:	error	is	0.64396
Iteration	520:	error	is	0.64395

Iteration	530:	error	is	0.64394
Iteration	540:	error	is	0.64393
Iteration	550:	error	is	0.64392
Iteration	560:	error	is	0.64391
Iteration	570:	error	is	0.6439
Iteration	580:	error	is	0.64389
Iteration	590:	error	is	0.64389
Iteration	600:	error	is	0.64388
Iteration	610:	error	is	0.64388
Iteration	620:	error	is	0.64387
Iteration	630:	error	is	0.64387
Iteration	640:	error	is	0.64387
Iteration	650:	error	is	0.64386
Iteration	660:	error	is	0.64386
Iteration	670:	error	is	0.64386
Iteration	680:	error	is	0.64386
Iteration	690:	error	is	0.64386
Iteration	700:	error	is	0.64385
Iteration	710:	error	is	0.64385
Iteration	720:	error	is	0.64385
Iteration	730:	error	is	0.64385

Iteration 740: error is 0.64385  
Iteration 750: error is 0.64385  
Iteration 760: error is 0.64385  
Iteration 770: error is 0.64385  
Iteration 780: error is 0.64385  
Iteration 790: error is 0.64384  
Iteration 800: error is 0.64384  
Iteration 810: error is 0.64384  
Iteration 820: error is 0.64384  
Iteration 830: error is 0.64384  
Iteration 840: error is 0.64384  
Iteration 850: error is 0.64384  
Iteration 860: error is 0.64384  
Iteration 870: error is 0.64384  
Iteration 880: error is 0.64384  
Iteration 890: error is 0.64384  
Iteration 900: error is 0.64384  
Iteration 910: error is 0.64384  
Iteration 920: error is 0.64384  
Iteration 930: error is 0.64384  
Iteration 940: error is 0.64384



Iteration 950: error is 0.64384  
Iteration 960: error is 0.64384  
Iteration 970: error is 0.64384  
Iteration 980: error is 0.64384  
Iteration 990: error is 0.64384  
Iteration 1000: error is 0.64384  
J\_new = 0.8346  
J\_new = 0.8194  
J\_new = 0.8170  
J\_new = 0.8163  
J\_new = 0.8138  
J\_new = 0.8120  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.5491  
Iteration 20: error is 36.7223  
Iteration 30: error is 36.377  
Iteration 40: error is 37.2045  
Iteration 50: error is 36.8365  
Iteration 60: error is 36.9473  
Iteration 70: error is 37.2359  
Iteration 80: error is 37.9839  
Iteration 90: error is 37.7633  
Iteration 100: error is 2.291  
Iteration 110: error is 1.2002  
Iteration 120: error is 0.77929  
Iteration 130: error is 0.74257  
Iteration 140: error is 0.69904  
Iteration 150: error is 0.68949  
Iteration 160: error is 0.68373  
Iteration 170: error is 0.67904  
Iteration 180: error is 0.67569  
Iteration 190: error is 0.67304

Iteration	200:	error	is	0.671
Iteration	210:	error	is	0.6651
Iteration	220:	error	is	0.64505
Iteration	230:	error	is	0.64111
Iteration	240:	error	is	0.63982
Iteration	250:	error	is	0.63882
Iteration	260:	error	is	0.63717
Iteration	270:	error	is	0.63542
Iteration	280:	error	is	0.63418
Iteration	290:	error	is	0.63332
Iteration	300:	error	is	0.63263
Iteration	310:	error	is	0.63208
Iteration	320:	error	is	0.63167
Iteration	330:	error	is	0.63133
Iteration	340:	error	is	0.63105
Iteration	350:	error	is	0.63082
Iteration	360:	error	is	0.63063
Iteration	370:	error	is	0.63048
Iteration	380:	error	is	0.63034
Iteration	390:	error	is	0.63023
Iteration	400:	error	is	0.63013

Iteration	410:	error	is	0.63005
Iteration	420:	error	is	0.62998
Iteration	430:	error	is	0.62992
Iteration	440:	error	is	0.62987
Iteration	450:	error	is	0.62982
Iteration	460:	error	is	0.62978
Iteration	470:	error	is	0.62975
Iteration	480:	error	is	0.62972
Iteration	490:	error	is	0.62969
Iteration	500:	error	is	0.62967
Iteration	510:	error	is	0.62965
Iteration	520:	error	is	0.62963
Iteration	530:	error	is	0.62962
Iteration	540:	error	is	0.6296
Iteration	550:	error	is	0.62959
Iteration	560:	error	is	0.62958
Iteration	570:	error	is	0.62957
Iteration	580:	error	is	0.62956
Iteration	590:	error	is	0.62955
Iteration	600:	error	is	0.62955
Iteration	610:	error	is	0.62954

Iteration 620: error is 0.62954  
Iteration 630: error is 0.62953  
Iteration 640: error is 0.62953  
Iteration 650: error is 0.62952  
Iteration 660: error is 0.62952  
Iteration 670: error is 0.62952  
Iteration 680: error is 0.62951  
Iteration 690: error is 0.62951  
Iteration 700: error is 0.62951  
Iteration 710: error is 0.62951  
Iteration 720: error is 0.6295  
Iteration 730: error is 0.6295  
Iteration 740: error is 0.6295  
Iteration 750: error is 0.6295  
Iteration 760: error is 0.6295  
Iteration 770: error is 0.6295  
Iteration 780: error is 0.6295  
Iteration 790: error is 0.6295  
Iteration 800: error is 0.6295  
Iteration 810: error is 0.6295  
Iteration 820: error is 0.62949

Iteration 830: error is 0.62949  
Iteration 840: error is 0.62949  
Iteration 850: error is 0.62949  
Iteration 860: error is 0.62949  
Iteration 870: error is 0.62949  
Iteration 880: error is 0.62949  
Iteration 890: error is 0.62949  
Iteration 900: error is 0.62949  
Iteration 910: error is 0.62949  
Iteration 920: error is 0.62949  
Iteration 930: error is 0.62949  
Iteration 940: error is 0.62949  
Iteration 950: error is 0.62949  
Iteration 960: error is 0.62949  
Iteration 970: error is 0.62949  
Iteration 980: error is 0.62949  
Iteration 990: error is 0.62949  
Iteration 1000: error is 0.62949  
J\_new = 0.8330  
J\_new = 0.8192  
J\_new = 0.8160

J\_new = 0.8132  
J\_new = 0.8094  
J\_new = 0.8070  
J\_new = 0.8002  
J\_new = 0.7862  
J\_new = 0.7422  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.468  
Iteration 20: error is 36.5733  
Iteration 30: error is 36.6275  
Iteration 40: error is 36.6309  
Iteration 50: error is 37.139  
Iteration 60: error is 37.7197  
Iteration 70: error is 37.4008  
Iteration 80: error is 37.693  
Iteration 90: error is 37.6868  
Iteration 100: error is 2.3267  
Iteration 110: error is 1.2967

Iteration	120:	error	is	0.88828
Iteration	130:	error	is	0.7686
Iteration	140:	error	is	0.73522
Iteration	150:	error	is	0.68668
Iteration	160:	error	is	0.67896
Iteration	170:	error	is	0.66417
Iteration	180:	error	is	0.65072
Iteration	190:	error	is	0.64759
Iteration	200:	error	is	0.64557
Iteration	210:	error	is	0.64318
Iteration	220:	error	is	0.64143
Iteration	230:	error	is	0.64014
Iteration	240:	error	is	0.63908
Iteration	250:	error	is	0.63821
Iteration	260:	error	is	0.63656
Iteration	270:	error	is	0.63479
Iteration	280:	error	is	0.63351
Iteration	290:	error	is	0.63265
Iteration	300:	error	is	0.63198
Iteration	310:	error	is	0.63129
Iteration	320:	error	is	0.63089



Iteration	330:	error	is	0.63058
Iteration	340:	error	is	0.63034
Iteration	350:	error	is	0.63013
Iteration	360:	error	is	0.62996
Iteration	370:	error	is	0.62982
Iteration	380:	error	is	0.62971
Iteration	390:	error	is	0.62961
Iteration	400:	error	is	0.62952
Iteration	410:	error	is	0.62944
Iteration	420:	error	is	0.62937
Iteration	430:	error	is	0.62931
Iteration	440:	error	is	0.62926
Iteration	450:	error	is	0.62922
Iteration	460:	error	is	0.62918
Iteration	470:	error	is	0.62915
Iteration	480:	error	is	0.62912
Iteration	490:	error	is	0.62909
Iteration	500:	error	is	0.62907
Iteration	510:	error	is	0.62905
Iteration	520:	error	is	0.62903
Iteration	530:	error	is	0.62902

Iteration	540:	error	is	0.62901
Iteration	550:	error	is	0.62899
Iteration	560:	error	is	0.62898
Iteration	570:	error	is	0.62897
Iteration	580:	error	is	0.62896
Iteration	590:	error	is	0.62896
Iteration	600:	error	is	0.62895
Iteration	610:	error	is	0.62895
Iteration	620:	error	is	0.62894
Iteration	630:	error	is	0.62894
Iteration	640:	error	is	0.62893
Iteration	650:	error	is	0.62893
Iteration	660:	error	is	0.62892
Iteration	670:	error	is	0.62892
Iteration	680:	error	is	0.62892
Iteration	690:	error	is	0.62892
Iteration	700:	error	is	0.62891
Iteration	710:	error	is	0.62891
Iteration	720:	error	is	0.62891
Iteration	730:	error	is	0.62891
Iteration	740:	error	is	0.62891

Iteration 750: error is 0.62891  
Iteration 760: error is 0.62891  
Iteration 770: error is 0.6289  
Iteration 780: error is 0.6289  
Iteration 790: error is 0.6289  
Iteration 800: error is 0.6289  
Iteration 810: error is 0.6289  
Iteration 820: error is 0.6289  
Iteration 830: error is 0.6289  
Iteration 840: error is 0.6289  
Iteration 850: error is 0.6289  
Iteration 860: error is 0.6289  
Iteration 870: error is 0.6289  
Iteration 880: error is 0.6289  
Iteration 890: error is 0.6289  
Iteration 900: error is 0.6289  
Iteration 910: error is 0.6289  
Iteration 920: error is 0.6289  
Iteration 930: error is 0.6289  
Iteration 940: error is 0.6289  
Iteration 950: error is 0.6289

Iteration 960: error is 0.6289  
Iteration 970: error is 0.6289  
Iteration 980: error is 0.6289  
Iteration 990: error is 0.6289  
Iteration 1000: error is 0.6289  
J\_new = 0.8432  
J\_new = 0.8271  
J\_new = 0.8168  
J\_new = 0.8150  
J\_new = 0.8147  
J\_new = 0.8110  
J\_new = 0.8092  
J\_new = 0.8054  
J\_new = 0.8036  
J\_new = 0.7898  
J\_new = 0.7825  
J\_new = 0.7420  
J\_new = 0.7429  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312

Iteration 10: error is 39.4716  
Iteration 20: error is 37.5475  
Iteration 30: error is 37.2252  
Iteration 40: error is 37.0895  
Iteration 50: error is 37.2813  
Iteration 60: error is 37.7198  
Iteration 70: error is 37.4096  
Iteration 80: error is 37.2074  
Iteration 90: error is 37.7908  
Iteration 100: error is 2.2654  
Iteration 110: error is 1.1701  
Iteration 120: error is 0.82575  
Iteration 130: error is 0.76367  
Iteration 140: error is 0.72734  
Iteration 150: error is 0.67227  
Iteration 160: error is 0.66384  
Iteration 170: error is 0.65861  
Iteration 180: error is 0.65543  
Iteration 190: error is 0.65286  
Iteration 200: error is 0.65102  
Iteration 210: error is 0.64924

Iteration	220:	error	is	0.64785
Iteration	230:	error	is	0.64672
Iteration	240:	error	is	0.64571
Iteration	250:	error	is	0.64487
Iteration	260:	error	is	0.6436
Iteration	270:	error	is	0.64224
Iteration	280:	error	is	0.64118
Iteration	290:	error	is	0.64043
Iteration	300:	error	is	0.63986
Iteration	310:	error	is	0.63942
Iteration	320:	error	is	0.63908
Iteration	330:	error	is	0.6388
Iteration	340:	error	is	0.63857
Iteration	350:	error	is	0.63839
Iteration	360:	error	is	0.63823
Iteration	370:	error	is	0.63811
Iteration	380:	error	is	0.638
Iteration	390:	error	is	0.63791
Iteration	400:	error	is	0.63784
Iteration	410:	error	is	0.63778
Iteration	420:	error	is	0.63772

Iteration	430:	error	is	0.63767
Iteration	440:	error	is	0.63763
Iteration	450:	error	is	0.6376
Iteration	460:	error	is	0.63757
Iteration	470:	error	is	0.63754
Iteration	480:	error	is	0.63752
Iteration	490:	error	is	0.6375
Iteration	500:	error	is	0.63748
Iteration	510:	error	is	0.63747
Iteration	520:	error	is	0.63746
Iteration	530:	error	is	0.63744
Iteration	540:	error	is	0.63743
Iteration	550:	error	is	0.63743
Iteration	560:	error	is	0.63742
Iteration	570:	error	is	0.63741
Iteration	580:	error	is	0.63741
Iteration	590:	error	is	0.6374
Iteration	600:	error	is	0.6374
Iteration	610:	error	is	0.63739
Iteration	620:	error	is	0.63739
Iteration	630:	error	is	0.63738

Iteration	640:	error	is	0.63738
Iteration	650:	error	is	0.63738
Iteration	660:	error	is	0.63738
Iteration	670:	error	is	0.63737
Iteration	680:	error	is	0.63737
Iteration	690:	error	is	0.63737
Iteration	700:	error	is	0.63737
Iteration	710:	error	is	0.63737
Iteration	720:	error	is	0.63737
Iteration	730:	error	is	0.63737
Iteration	740:	error	is	0.63736
Iteration	750:	error	is	0.63736
Iteration	760:	error	is	0.63736
Iteration	770:	error	is	0.63736
Iteration	780:	error	is	0.63736
Iteration	790:	error	is	0.63736
Iteration	800:	error	is	0.63736
Iteration	810:	error	is	0.63736
Iteration	820:	error	is	0.63736
Iteration	830:	error	is	0.63736
Iteration	840:	error	is	0.63736



Iteration 850: error is 0.63736  
Iteration 860: error is 0.63736  
Iteration 870: error is 0.63736  
Iteration 880: error is 0.63736  
Iteration 890: error is 0.63736  
Iteration 900: error is 0.63736  
Iteration 910: error is 0.63736  
Iteration 920: error is 0.63736  
Iteration 930: error is 0.63736  
Iteration 940: error is 0.63736  
Iteration 950: error is 0.63736  
Iteration 960: error is 0.63736  
Iteration 970: error is 0.63736  
Iteration 980: error is 0.63736  
Iteration 990: error is 0.63736  
Iteration 1000: error is 0.63736  
J\_new = 0.8702  
J\_new = 0.8399  
J\_new = 0.8226  
J\_new = 0.8120  
J\_new = 0.8089

J\_new = 0.8069  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.2991  
Iteration 20: error is 37.1203  
Iteration 30: error is 37.1013  
Iteration 40: error is 37.1974  
Iteration 50: error is 37.2215  
Iteration 60: error is 37.4209  
Iteration 70: error is 37.7927  
Iteration 80: error is 37.5089  
Iteration 90: error is 38.1647  
Iteration 100: error is 2.2923  
Iteration 110: error is 1.1959

Iteration	120:	error	is	0.83592
Iteration	130:	error	is	0.69533
Iteration	140:	error	is	0.67517
Iteration	150:	error	is	0.66586
Iteration	160:	error	is	0.65935
Iteration	170:	error	is	0.65465
Iteration	180:	error	is	0.65104
Iteration	190:	error	is	0.64819
Iteration	200:	error	is	0.64598
Iteration	210:	error	is	0.64417
Iteration	220:	error	is	0.64266
Iteration	230:	error	is	0.64138
Iteration	240:	error	is	0.64035
Iteration	250:	error	is	0.63933
Iteration	260:	error	is	0.63781
Iteration	270:	error	is	0.63615
Iteration	280:	error	is	0.63494
Iteration	290:	error	is	0.63405
Iteration	300:	error	is	0.6334
Iteration	310:	error	is	0.63289
Iteration	320:	error	is	0.6325

Iteration	330:	error	is	0.63218
Iteration	340:	error	is	0.63193
Iteration	350:	error	is	0.63172
Iteration	360:	error	is	0.63155
Iteration	370:	error	is	0.63141
Iteration	380:	error	is	0.63129
Iteration	390:	error	is	0.63118
Iteration	400:	error	is	0.63109
Iteration	410:	error	is	0.63102
Iteration	420:	error	is	0.63096
Iteration	430:	error	is	0.6309
Iteration	440:	error	is	0.63085
Iteration	450:	error	is	0.63081
Iteration	460:	error	is	0.63077
Iteration	470:	error	is	0.63074
Iteration	480:	error	is	0.63071
Iteration	490:	error	is	0.63069
Iteration	500:	error	is	0.63066
Iteration	510:	error	is	0.63064
Iteration	520:	error	is	0.63063
Iteration	530:	error	is	0.63061

Iteration	540:	error	is	0.6306
Iteration	550:	error	is	0.63059
Iteration	560:	error	is	0.63058
Iteration	570:	error	is	0.63057
Iteration	580:	error	is	0.63056
Iteration	590:	error	is	0.63055
Iteration	600:	error	is	0.63055
Iteration	610:	error	is	0.63054
Iteration	620:	error	is	0.63054
Iteration	630:	error	is	0.63053
Iteration	640:	error	is	0.63053
Iteration	650:	error	is	0.63052
Iteration	660:	error	is	0.63052
Iteration	670:	error	is	0.63052
Iteration	680:	error	is	0.63051
Iteration	690:	error	is	0.63051
Iteration	700:	error	is	0.63051
Iteration	710:	error	is	0.63051
Iteration	720:	error	is	0.6305
Iteration	730:	error	is	0.6305
Iteration	740:	error	is	0.6305

Iteration 750: error is 0.6305  
Iteration 760: error is 0.6305  
Iteration 770: error is 0.6305  
Iteration 780: error is 0.6305  
Iteration 790: error is 0.6305  
Iteration 800: error is 0.6305  
Iteration 810: error is 0.63049  
Iteration 820: error is 0.63049  
Iteration 830: error is 0.63049  
Iteration 840: error is 0.63049  
Iteration 850: error is 0.63049  
Iteration 860: error is 0.63049  
Iteration 870: error is 0.63049  
Iteration 880: error is 0.63049  
Iteration 890: error is 0.63049  
Iteration 900: error is 0.63049  
Iteration 910: error is 0.63049  
Iteration 920: error is 0.63049  
Iteration 930: error is 0.63049  
Iteration 940: error is 0.63049  
Iteration 950: error is 0.63049

Iteration 960: error is 0.63049  
Iteration 970: error is 0.63049  
Iteration 980: error is 0.63049  
Iteration 990: error is 0.63049  
Iteration 1000: error is 0.63049  
J\_new = 0.8436  
J\_new = 0.8272  
J\_new = 0.8162  
J\_new = 0.8142  
J\_new = 0.8120  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312

Iteration 10: error is 39.6382  
Iteration 20: error is 37.3697  
Iteration 30: error is 37.2706  
Iteration 40: error is 36.9556  
Iteration 50: error is 36.8232  
Iteration 60: error is 37.196  
Iteration 70: error is 37.5471  
Iteration 80: error is 37.6108  
Iteration 90: error is 37.8502  
Iteration 100: error is 2.1841  
Iteration 110: error is 1.3034  
Iteration 120: error is 1.048  
Iteration 130: error is 0.91348  
Iteration 140: error is 0.84397  
Iteration 150: error is 0.79837  
Iteration 160: error is 0.78127  
Iteration 170: error is 0.76307  
Iteration 180: error is 0.66936  
Iteration 190: error is 0.65151  
Iteration 200: error is 0.69172  
Iteration 210: error is 0.65002



Iteration	220:	error	is	0.64209
Iteration	230:	error	is	0.6379
Iteration	240:	error	is	0.63711
Iteration	250:	error	is	0.63642
Iteration	260:	error	is	0.63532
Iteration	270:	error	is	0.63409
Iteration	280:	error	is	0.63322
Iteration	290:	error	is	0.63259
Iteration	300:	error	is	0.63208
Iteration	310:	error	is	0.63168
Iteration	320:	error	is	0.63137
Iteration	330:	error	is	0.63112
Iteration	340:	error	is	0.63092
Iteration	350:	error	is	0.63074
Iteration	360:	error	is	0.6306
Iteration	370:	error	is	0.63048
Iteration	380:	error	is	0.63038
Iteration	390:	error	is	0.63029
Iteration	400:	error	is	0.63022
Iteration	410:	error	is	0.63016
Iteration	420:	error	is	0.63011

Iteration	430:	error	is	0.63006
Iteration	440:	error	is	0.63002
Iteration	450:	error	is	0.62998
Iteration	460:	error	is	0.62995
Iteration	470:	error	is	0.62993
Iteration	480:	error	is	0.62991
Iteration	490:	error	is	0.62989
Iteration	500:	error	is	0.62987
Iteration	510:	error	is	0.62985
Iteration	520:	error	is	0.62984
Iteration	530:	error	is	0.62983
Iteration	540:	error	is	0.62982
Iteration	550:	error	is	0.62981
Iteration	560:	error	is	0.6298
Iteration	570:	error	is	0.62979
Iteration	580:	error	is	0.62979
Iteration	590:	error	is	0.62978
Iteration	600:	error	is	0.62978
Iteration	610:	error	is	0.62977
Iteration	620:	error	is	0.62977
Iteration	630:	error	is	0.62977

Iteration 640: error is 0.62976  
Iteration 650: error is 0.62976  
Iteration 660: error is 0.62976  
Iteration 670: error is 0.62975  
Iteration 680: error is 0.62975  
Iteration 690: error is 0.62975  
Iteration 700: error is 0.62975  
Iteration 710: error is 0.62975  
Iteration 720: error is 0.62975  
Iteration 730: error is 0.62975  
Iteration 740: error is 0.62975  
Iteration 750: error is 0.62974  
Iteration 760: error is 0.62974  
Iteration 770: error is 0.62974  
Iteration 780: error is 0.62974  
Iteration 790: error is 0.62974  
Iteration 800: error is 0.62974  
Iteration 810: error is 0.62974  
Iteration 820: error is 0.62974  
Iteration 830: error is 0.62974  
Iteration 840: error is 0.62974

Iteration 850: error is 0.62974  
Iteration 860: error is 0.62974  
Iteration 870: error is 0.62974  
Iteration 880: error is 0.62974  
Iteration 890: error is 0.62974  
Iteration 900: error is 0.62974  
Iteration 910: error is 0.62974  
Iteration 920: error is 0.62974  
Iteration 930: error is 0.62974  
Iteration 940: error is 0.62974  
Iteration 950: error is 0.62974  
Iteration 960: error is 0.62974  
Iteration 970: error is 0.62974  
Iteration 980: error is 0.62974  
Iteration 990: error is 0.62974  
Iteration 1000: error is 0.62974  
J\_new = 0.8436  
J\_new = 0.8277  
J\_new = 0.8168  
J\_new = 0.8146  
J\_new = 0.8122

J\_new = 0.8078  
J\_new = 0.8063  
J\_new = 0.8017  
J\_new = 0.7865  
J\_new = 0.7423  
J\_new = 0.7430  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9742  
Iteration 20: error is 37.7682  
Iteration 30: error is 36.9064  
Iteration 40: error is 37.1332  
Iteration 50: error is 37.4659  
Iteration 60: error is 36.9861  
Iteration 70: error is 37.2404  
Iteration 80: error is 37.2745  
Iteration 90: error is 36.7446  
Iteration 100: error is 2.0949  
Iteration 110: error is 1.2554  
Iteration 120: error is 0.92465

Iteration	130:	error	is	0.79797
Iteration	140:	error	is	0.73271
Iteration	150:	error	is	0.67021
Iteration	160:	error	is	0.65857
Iteration	170:	error	is	0.65287
Iteration	180:	error	is	0.64944
Iteration	190:	error	is	0.64682
Iteration	200:	error	is	0.64429
Iteration	210:	error	is	0.64251
Iteration	220:	error	is	0.64107
Iteration	230:	error	is	0.63983
Iteration	240:	error	is	0.63877
Iteration	250:	error	is	0.63789
Iteration	260:	error	is	0.63647
Iteration	270:	error	is	0.63495
Iteration	280:	error	is	0.63377
Iteration	290:	error	is	0.63289
Iteration	300:	error	is	0.63225
Iteration	310:	error	is	0.63173
Iteration	320:	error	is	0.63134
Iteration	330:	error	is	0.63102

Iteration	340:	error	is	0.63076
Iteration	350:	error	is	0.63055
Iteration	360:	error	is	0.63037
Iteration	370:	error	is	0.63022
Iteration	380:	error	is	0.63009
Iteration	390:	error	is	0.62998
Iteration	400:	error	is	0.62989
Iteration	410:	error	is	0.62981
Iteration	420:	error	is	0.62974
Iteration	430:	error	is	0.62968
Iteration	440:	error	is	0.62963
Iteration	450:	error	is	0.62958
Iteration	460:	error	is	0.62954
Iteration	470:	error	is	0.62951
Iteration	480:	error	is	0.62948
Iteration	490:	error	is	0.62945
Iteration	500:	error	is	0.62943
Iteration	510:	error	is	0.62941
Iteration	520:	error	is	0.62939
Iteration	530:	error	is	0.62937
Iteration	540:	error	is	0.62936

Iteration	550:	error	is	0.62935
Iteration	560:	error	is	0.62934
Iteration	570:	error	is	0.62933
Iteration	580:	error	is	0.62932
Iteration	590:	error	is	0.62931
Iteration	600:	error	is	0.6293
Iteration	610:	error	is	0.6293
Iteration	620:	error	is	0.62929
Iteration	630:	error	is	0.62928
Iteration	640:	error	is	0.62928
Iteration	650:	error	is	0.62928
Iteration	660:	error	is	0.62927
Iteration	670:	error	is	0.62927
Iteration	680:	error	is	0.62927
Iteration	690:	error	is	0.62926
Iteration	700:	error	is	0.62926
Iteration	710:	error	is	0.62926
Iteration	720:	error	is	0.62926
Iteration	730:	error	is	0.62925
Iteration	740:	error	is	0.62925
Iteration	750:	error	is	0.62925



Iteration 760: error is 0.62925  
Iteration 770: error is 0.62925  
Iteration 780: error is 0.62925  
Iteration 790: error is 0.62925  
Iteration 800: error is 0.62925  
Iteration 810: error is 0.62925  
Iteration 820: error is 0.62925  
Iteration 830: error is 0.62924  
Iteration 840: error is 0.62924  
Iteration 850: error is 0.62924  
Iteration 860: error is 0.62924  
Iteration 870: error is 0.62924  
Iteration 880: error is 0.62924  
Iteration 890: error is 0.62924  
Iteration 900: error is 0.62924  
Iteration 910: error is 0.62924  
Iteration 920: error is 0.62924  
Iteration 930: error is 0.62924  
Iteration 940: error is 0.62924  
Iteration 950: error is 0.62924  
Iteration 960: error is 0.62924

Iteration 970: error is 0.62924  
Iteration 980: error is 0.62924  
Iteration 990: error is 0.62924  
Iteration 1000: error is 0.62924  
J\_new = 0.8421  
J\_new = 0.8272  
J\_new = 0.8176  
J\_new = 0.8158  
J\_new = 0.8149  
J\_new = 0.8109  
J\_new = 0.8073  
J\_new = 0.8025  
J\_new = 0.7908  
J\_new = 0.7814  
J\_new = 0.7432  
J\_new = 0.7419  
J\_new = 0.7427  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.242

Iteration	20:	error is	36.8829
Iteration	30:	error is	36.5191
Iteration	40:	error is	36.8548
Iteration	50:	error is	37.0783
Iteration	60:	error is	36.6617
Iteration	70:	error is	37.423
Iteration	80:	error is	37.3621
Iteration	90:	error is	37.7964
Iteration	100:	error is	2.2733
Iteration	110:	error is	1.3413
Iteration	120:	error is	0.86359
Iteration	130:	error is	0.72777
Iteration	140:	error is	0.69106
Iteration	150:	error is	0.67547
Iteration	160:	error is	0.667
Iteration	170:	error is	0.66202
Iteration	180:	error is	0.65833
Iteration	190:	error is	0.65562
Iteration	200:	error is	0.65336
Iteration	210:	error is	0.65152
Iteration	220:	error is	0.65007

Iteration	230:	error	is	0.64883
Iteration	240:	error	is	0.64777
Iteration	250:	error	is	0.64688
Iteration	260:	error	is	0.64549
Iteration	270:	error	is	0.64397
Iteration	280:	error	is	0.64283
Iteration	290:	error	is	0.64201
Iteration	300:	error	is	0.64139
Iteration	310:	error	is	0.64093
Iteration	320:	error	is	0.64056
Iteration	330:	error	is	0.64026
Iteration	340:	error	is	0.64002
Iteration	350:	error	is	0.63982
Iteration	360:	error	is	0.63966
Iteration	370:	error	is	0.63953
Iteration	380:	error	is	0.63942
Iteration	390:	error	is	0.63934
Iteration	400:	error	is	0.63926
Iteration	410:	error	is	0.63919
Iteration	420:	error	is	0.63913
Iteration	430:	error	is	0.63908

Iteration	440:	error	is	0.63904
Iteration	450:	error	is	0.639
Iteration	460:	error	is	0.63897
Iteration	470:	error	is	0.63894
Iteration	480:	error	is	0.63892
Iteration	490:	error	is	0.6389
Iteration	500:	error	is	0.63888
Iteration	510:	error	is	0.63886
Iteration	520:	error	is	0.63885
Iteration	530:	error	is	0.63884
Iteration	540:	error	is	0.63883
Iteration	550:	error	is	0.63882
Iteration	560:	error	is	0.63881
Iteration	570:	error	is	0.6388
Iteration	580:	error	is	0.63879
Iteration	590:	error	is	0.63879
Iteration	600:	error	is	0.63878
Iteration	610:	error	is	0.63878
Iteration	620:	error	is	0.63877
Iteration	630:	error	is	0.63877
Iteration	640:	error	is	0.63877

Iteration	650:	error	is	0.63877
Iteration	660:	error	is	0.63876
Iteration	670:	error	is	0.63876
Iteration	680:	error	is	0.63876
Iteration	690:	error	is	0.63876
Iteration	700:	error	is	0.63876
Iteration	710:	error	is	0.63875
Iteration	720:	error	is	0.63875
Iteration	730:	error	is	0.63875
Iteration	740:	error	is	0.63875
Iteration	750:	error	is	0.63875
Iteration	760:	error	is	0.63875
Iteration	770:	error	is	0.63875
Iteration	780:	error	is	0.63875
Iteration	790:	error	is	0.63875
Iteration	800:	error	is	0.63875
Iteration	810:	error	is	0.63875
Iteration	820:	error	is	0.63875
Iteration	830:	error	is	0.63875
Iteration	840:	error	is	0.63874
Iteration	850:	error	is	0.63874

Iteration 860: error is 0.63874  
Iteration 870: error is 0.63874  
Iteration 880: error is 0.63874  
Iteration 890: error is 0.63874  
Iteration 900: error is 0.63874  
Iteration 910: error is 0.63874  
Iteration 920: error is 0.63874  
Iteration 930: error is 0.63874  
Iteration 940: error is 0.63874  
Iteration 950: error is 0.63874  
Iteration 960: error is 0.63874  
Iteration 970: error is 0.63874  
Iteration 980: error is 0.63874  
Iteration 990: error is 0.63874  
Iteration 1000: error is 0.63874  
J\_new = 0.8432  
J\_new = 0.8273  
J\_new = 0.8156  
J\_new = 0.8139  
J\_new = 0.8116  
J\_new = 0.8079

J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0098  
Iteration 20: error is 36.9166  
Iteration 30: error is 36.2842  
Iteration 40: error is 36.6869  
Iteration 50: error is 36.8262  
Iteration 60: error is 36.4854  
Iteration 70: error is 36.9662  
Iteration 80: error is 36.964  
Iteration 90: error is 37.4471  
Iteration 100: error is 2.174  
Iteration 110: error is 1.1679



Iteration	120:	error	is	0.85321
Iteration	130:	error	is	0.78704
Iteration	140:	error	is	0.72792
Iteration	150:	error	is	0.69405
Iteration	160:	error	is	0.6525
Iteration	170:	error	is	0.64774
Iteration	180:	error	is	0.64385
Iteration	190:	error	is	0.64146
Iteration	200:	error	is	0.63927
Iteration	210:	error	is	0.63765
Iteration	220:	error	is	0.63628
Iteration	230:	error	is	0.63603
Iteration	240:	error	is	0.63415
Iteration	250:	error	is	0.63331
Iteration	260:	error	is	0.63198
Iteration	270:	error	is	0.63054
Iteration	280:	error	is	0.62948
Iteration	290:	error	is	0.62871
Iteration	300:	error	is	0.62809
Iteration	310:	error	is	0.62762
Iteration	320:	error	is	0.62726

Iteration	330:	error	is	0.62698
Iteration	340:	error	is	0.62674
Iteration	350:	error	is	0.62655
Iteration	360:	error	is	0.6264
Iteration	370:	error	is	0.62627
Iteration	380:	error	is	0.62615
Iteration	390:	error	is	0.62606
Iteration	400:	error	is	0.62598
Iteration	410:	error	is	0.62591
Iteration	420:	error	is	0.62585
Iteration	430:	error	is	0.62581
Iteration	440:	error	is	0.62576
Iteration	450:	error	is	0.62573
Iteration	460:	error	is	0.6257
Iteration	470:	error	is	0.62567
Iteration	480:	error	is	0.62565
Iteration	490:	error	is	0.62562
Iteration	500:	error	is	0.62561
Iteration	510:	error	is	0.62559
Iteration	520:	error	is	0.62558
Iteration	530:	error	is	0.62557

Iteration	540:	error	is	0.62556
Iteration	550:	error	is	0.62555
Iteration	560:	error	is	0.62554
Iteration	570:	error	is	0.62553
Iteration	580:	error	is	0.62552
Iteration	590:	error	is	0.62552
Iteration	600:	error	is	0.62551
Iteration	610:	error	is	0.62551
Iteration	620:	error	is	0.6255
Iteration	630:	error	is	0.6255
Iteration	640:	error	is	0.6255
Iteration	650:	error	is	0.62549
Iteration	660:	error	is	0.62549
Iteration	670:	error	is	0.62549
Iteration	680:	error	is	0.62549
Iteration	690:	error	is	0.62548
Iteration	700:	error	is	0.62548
Iteration	710:	error	is	0.62548
Iteration	720:	error	is	0.62548
Iteration	730:	error	is	0.62548
Iteration	740:	error	is	0.62548

Iteration 750: error is 0.62548  
Iteration 760: error is 0.62548  
Iteration 770: error is 0.62548  
Iteration 780: error is 0.62548  
Iteration 790: error is 0.62547  
Iteration 800: error is 0.62547  
Iteration 810: error is 0.62547  
Iteration 820: error is 0.62547  
Iteration 830: error is 0.62547  
Iteration 840: error is 0.62547  
Iteration 850: error is 0.62547  
Iteration 860: error is 0.62547  
Iteration 870: error is 0.62547  
Iteration 880: error is 0.62547  
Iteration 890: error is 0.62547  
Iteration 900: error is 0.62547  
Iteration 910: error is 0.62547  
Iteration 920: error is 0.62547  
Iteration 930: error is 0.62547  
Iteration 940: error is 0.62547  
Iteration 950: error is 0.62547

Iteration 960: error is 0.62547  
Iteration 970: error is 0.62547  
Iteration 980: error is 0.62547  
Iteration 990: error is 0.62547  
Iteration 1000: error is 0.62547  
J\_new = 0.7952  
J\_new = 0.7699  
J\_new = 0.7534  
J\_new = 0.7452  
J\_new = 0.7444  
J\_new = 0.7453  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.5609  
Iteration 20: error is 36.9347  
Iteration 30: error is 37.1237  
Iteration 40: error is 37.0609  
Iteration 50: error is 37.1862  
Iteration 60: error is 37.8754  
Iteration 70: error is 37.4045

Iteration 80: error is 37.403  
Iteration 90: error is 37.5149  
Iteration 100: error is 2.0525  
Iteration 110: error is 1.1433  
Iteration 120: error is 0.84358  
Iteration 130: error is 0.70588  
Iteration 140: error is 0.67803  
Iteration 150: error is 0.6685  
Iteration 160: error is 0.66145  
Iteration 170: error is 0.65636  
Iteration 180: error is 0.65263  
Iteration 190: error is 0.64974  
Iteration 200: error is 0.64748  
Iteration 210: error is 0.64566  
Iteration 220: error is 0.64409  
Iteration 230: error is 0.64285  
Iteration 240: error is 0.64169  
Iteration 250: error is 0.64074  
Iteration 260: error is 0.63925  
Iteration 270: error is 0.63764  
Iteration 280: error is 0.63644

Iteration	290:	error	is	0.63555
Iteration	300:	error	is	0.63488
Iteration	310:	error	is	0.63439
Iteration	320:	error	is	0.63399
Iteration	330:	error	is	0.63368
Iteration	340:	error	is	0.63343
Iteration	350:	error	is	0.63322
Iteration	360:	error	is	0.63305
Iteration	370:	error	is	0.63291
Iteration	380:	error	is	0.63279
Iteration	390:	error	is	0.63269
Iteration	400:	error	is	0.6326
Iteration	410:	error	is	0.63253
Iteration	420:	error	is	0.63247
Iteration	430:	error	is	0.63241
Iteration	440:	error	is	0.63237
Iteration	450:	error	is	0.63233
Iteration	460:	error	is	0.63229
Iteration	470:	error	is	0.63226
Iteration	480:	error	is	0.63223
Iteration	490:	error	is	0.63221

Iteration	500:	error	is	0.63219
Iteration	510:	error	is	0.63217
Iteration	520:	error	is	0.63215
Iteration	530:	error	is	0.63214
Iteration	540:	error	is	0.63213
Iteration	550:	error	is	0.63211
Iteration	560:	error	is	0.6321
Iteration	570:	error	is	0.6321
Iteration	580:	error	is	0.63209
Iteration	590:	error	is	0.63208
Iteration	600:	error	is	0.63208
Iteration	610:	error	is	0.63207
Iteration	620:	error	is	0.63206
Iteration	630:	error	is	0.63206
Iteration	640:	error	is	0.63206
Iteration	650:	error	is	0.63205
Iteration	660:	error	is	0.63205
Iteration	670:	error	is	0.63205
Iteration	680:	error	is	0.63204
Iteration	690:	error	is	0.63204
Iteration	700:	error	is	0.63204



Iteration	710:	error	is	0.63204
Iteration	720:	error	is	0.63204
Iteration	730:	error	is	0.63203
Iteration	740:	error	is	0.63203
Iteration	750:	error	is	0.63203
Iteration	760:	error	is	0.63203
Iteration	770:	error	is	0.63203
Iteration	780:	error	is	0.63203
Iteration	790:	error	is	0.63203
Iteration	800:	error	is	0.63203
Iteration	810:	error	is	0.63203
Iteration	820:	error	is	0.63203
Iteration	830:	error	is	0.63203
Iteration	840:	error	is	0.63203
Iteration	850:	error	is	0.63203
Iteration	860:	error	is	0.63202
Iteration	870:	error	is	0.63202
Iteration	880:	error	is	0.63202
Iteration	890:	error	is	0.63202
Iteration	900:	error	is	0.63202
Iteration	910:	error	is	0.63202

Iteration 920: error is 0.63202  
Iteration 930: error is 0.63202  
Iteration 940: error is 0.63202  
Iteration 950: error is 0.63202  
Iteration 960: error is 0.63202  
Iteration 970: error is 0.63202  
Iteration 980: error is 0.63202  
Iteration 990: error is 0.63202  
Iteration 1000: error is 0.63202  
J\_new = 0.8427  
J\_new = 0.8270  
J\_new = 0.8166  
J\_new = 0.8150  
J\_new = 0.8145  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8032  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418

J\_new = 0.7425

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 38.6269

Iteration 20: error is 37.5425

Iteration 30: error is 37.0587

Iteration 40: error is 36.8077

Iteration 50: error is 37.3071

Iteration 60: error is 37.2803

Iteration 70: error is 37.5208

Iteration 80: error is 37.6743

Iteration 90: error is 38.1767

Iteration 100: error is 2.3163

Iteration 110: error is 1.4627

Iteration 120: error is 0.97588

Iteration 130: error is 0.78315

Iteration 140: error is 0.74273

Iteration 150: error is 0.70787

Iteration 160: error is 0.70223

Iteration 170: error is 0.69793

Iteration	180:	error	is	0.6951
Iteration	190:	error	is	0.69293
Iteration	200:	error	is	0.69093
Iteration	210:	error	is	0.66445
Iteration	220:	error	is	0.66187
Iteration	230:	error	is	0.65914
Iteration	240:	error	is	0.658
Iteration	250:	error	is	0.65701
Iteration	260:	error	is	0.65545
Iteration	270:	error	is	0.65372
Iteration	280:	error	is	0.65246
Iteration	290:	error	is	0.65154
Iteration	300:	error	is	0.65086
Iteration	310:	error	is	0.65032
Iteration	320:	error	is	0.64991
Iteration	330:	error	is	0.64958
Iteration	340:	error	is	0.64931
Iteration	350:	error	is	0.64909
Iteration	360:	error	is	0.64891
Iteration	370:	error	is	0.64876
Iteration	380:	error	is	0.64863

Iteration	390:	error	is	0.64852
Iteration	400:	error	is	0.64843
Iteration	410:	error	is	0.64835
Iteration	420:	error	is	0.64828
Iteration	430:	error	is	0.64822
Iteration	440:	error	is	0.64817
Iteration	450:	error	is	0.64813
Iteration	460:	error	is	0.64809
Iteration	470:	error	is	0.64806
Iteration	480:	error	is	0.64803
Iteration	490:	error	is	0.64801
Iteration	500:	error	is	0.64798
Iteration	510:	error	is	0.64796
Iteration	520:	error	is	0.64794
Iteration	530:	error	is	0.64793
Iteration	540:	error	is	0.64791
Iteration	550:	error	is	0.6479
Iteration	560:	error	is	0.64789
Iteration	570:	error	is	0.64788
Iteration	580:	error	is	0.64787
Iteration	590:	error	is	0.64786

Iteration	600:	error	is	0.64785
Iteration	610:	error	is	0.64785
Iteration	620:	error	is	0.64784
Iteration	630:	error	is	0.64784
Iteration	640:	error	is	0.64783
Iteration	650:	error	is	0.64783
Iteration	660:	error	is	0.64782
Iteration	670:	error	is	0.64782
Iteration	680:	error	is	0.64782
Iteration	690:	error	is	0.64781
Iteration	700:	error	is	0.64781
Iteration	710:	error	is	0.64781
Iteration	720:	error	is	0.64781
Iteration	730:	error	is	0.6478
Iteration	740:	error	is	0.6478
Iteration	750:	error	is	0.6478
Iteration	760:	error	is	0.6478
Iteration	770:	error	is	0.6478
Iteration	780:	error	is	0.6478
Iteration	790:	error	is	0.64779
Iteration	800:	error	is	0.64779

Iteration 810: error is 0.64779  
Iteration 820: error is 0.64779  
Iteration 830: error is 0.64779  
Iteration 840: error is 0.64779  
Iteration 850: error is 0.64779  
Iteration 860: error is 0.64779  
Iteration 870: error is 0.64779  
Iteration 880: error is 0.64779  
Iteration 890: error is 0.64779  
Iteration 900: error is 0.64779  
Iteration 910: error is 0.64779  
Iteration 920: error is 0.64779  
Iteration 930: error is 0.64779  
Iteration 940: error is 0.64779  
Iteration 950: error is 0.64779  
Iteration 960: error is 0.64779  
Iteration 970: error is 0.64778  
Iteration 980: error is 0.64778  
Iteration 990: error is 0.64778  
Iteration 1000: error is 0.64778  
J\_new = 0.8372

```
J_new = 0.8218
J_new = 0.8199
J_new = 0.8196
J_new = 0.8170
J_new = 0.8168
J_new = 0.8129
J_new = 0.8112
J_new = 0.8073
J_new = 0.8052
J_new = 0.7873
J_new = 0.7453
J_new = 0.7438
J_new = 0.7446
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 40.1877
Iteration 20: error is 37.94
Iteration 30: error is 37.0553
Iteration 40: error is 37.3987
Iteration 50: error is 36.9742
```



Iteration 60: error is 37.2785  
Iteration 70: error is 37.2044  
Iteration 80: error is 38.1324  
Iteration 90: error is 37.8607  
Iteration 100: error is 2.4454  
Iteration 110: error is 1.2558  
Iteration 120: error is 0.90054  
Iteration 130: error is 0.78924  
Iteration 140: error is 0.74239  
Iteration 150: error is 0.6883  
Iteration 160: error is 0.67621  
Iteration 170: error is 0.66334  
Iteration 180: error is 0.65965  
Iteration 190: error is 0.65739  
Iteration 200: error is 0.65521  
Iteration 210: error is 0.65349  
Iteration 220: error is 0.65212  
Iteration 230: error is 0.65087  
Iteration 240: error is 0.64991  
Iteration 250: error is 0.64911  
Iteration 260: error is 0.6477

Iteration	270:	error	is	0.6463
Iteration	280:	error	is	0.64519
Iteration	290:	error	is	0.64434
Iteration	300:	error	is	0.64372
Iteration	310:	error	is	0.64324
Iteration	320:	error	is	0.64285
Iteration	330:	error	is	0.64254
Iteration	340:	error	is	0.64229
Iteration	350:	error	is	0.64208
Iteration	360:	error	is	0.64191
Iteration	370:	error	is	0.64177
Iteration	380:	error	is	0.64165
Iteration	390:	error	is	0.64155
Iteration	400:	error	is	0.64146
Iteration	410:	error	is	0.64138
Iteration	420:	error	is	0.64132
Iteration	430:	error	is	0.64127
Iteration	440:	error	is	0.64123
Iteration	450:	error	is	0.64118
Iteration	460:	error	is	0.64115
Iteration	470:	error	is	0.64112

Iteration	480:	error	is	0.64109
Iteration	490:	error	is	0.64107
Iteration	500:	error	is	0.64105
Iteration	510:	error	is	0.64103
Iteration	520:	error	is	0.64101
Iteration	530:	error	is	0.641
Iteration	540:	error	is	0.64098
Iteration	550:	error	is	0.64097
Iteration	560:	error	is	0.64096
Iteration	570:	error	is	0.64096
Iteration	580:	error	is	0.64095
Iteration	590:	error	is	0.64094
Iteration	600:	error	is	0.64093
Iteration	610:	error	is	0.64093
Iteration	620:	error	is	0.64093
Iteration	630:	error	is	0.64092
Iteration	640:	error	is	0.64092
Iteration	650:	error	is	0.64091
Iteration	660:	error	is	0.64091
Iteration	670:	error	is	0.64091
Iteration	680:	error	is	0.64091

Iteration 690: error is 0.6409  
Iteration 700: error is 0.6409  
Iteration 710: error is 0.6409  
Iteration 720: error is 0.6409  
Iteration 730: error is 0.6409  
Iteration 740: error is 0.6409  
Iteration 750: error is 0.6409  
Iteration 760: error is 0.64089  
Iteration 770: error is 0.64089  
Iteration 780: error is 0.64089  
Iteration 790: error is 0.64089  
Iteration 800: error is 0.64089  
Iteration 810: error is 0.64089  
Iteration 820: error is 0.64089  
Iteration 830: error is 0.64089  
Iteration 840: error is 0.64089  
Iteration 850: error is 0.64089  
Iteration 860: error is 0.64089  
Iteration 870: error is 0.64089  
Iteration 880: error is 0.64089  
Iteration 890: error is 0.64089

Iteration 900: error is 0.64089  
Iteration 910: error is 0.64089  
Iteration 920: error is 0.64089  
Iteration 930: error is 0.64089  
Iteration 940: error is 0.64089  
Iteration 950: error is 0.64089  
Iteration 960: error is 0.64089  
Iteration 970: error is 0.64089  
Iteration 980: error is 0.64089  
Iteration 990: error is 0.64089  
Iteration 1000: error is 0.64089  
J\_new = 0.8416  
J\_new = 0.8264  
J\_new = 0.8142  
J\_new = 0.8112  
J\_new = 0.8098  
J\_new = 0.8054  
J\_new = 0.8006  
J\_new = 0.7851  
J\_new = 0.7431  
J\_new = 0.7416

J\_new = 0.7424

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.2662

Iteration 20: error is 36.9309

Iteration 30: error is 36.474

Iteration 40: error is 36.4562

Iteration 50: error is 36.678

Iteration 60: error is 36.9119

Iteration 70: error is 37.3551

Iteration 80: error is 37.3717

Iteration 90: error is 37.6916

Iteration 100: error is 2.3331

Iteration 110: error is 1.421

Iteration 120: error is 0.96839

Iteration 130: error is 0.76504

Iteration 140: error is 0.6722

Iteration 150: error is 0.66768

Iteration 160: error is 0.65886

Iteration 170: error is 0.65442

Iteration	180:	error	is	0.65143
Iteration	190:	error	is	0.64927
Iteration	200:	error	is	0.64704
Iteration	210:	error	is	0.64549
Iteration	220:	error	is	0.64417
Iteration	230:	error	is	0.64299
Iteration	240:	error	is	0.64205
Iteration	250:	error	is	0.6412
Iteration	260:	error	is	0.63991
Iteration	270:	error	is	0.6384
Iteration	280:	error	is	0.63737
Iteration	290:	error	is	0.63664
Iteration	300:	error	is	0.63608
Iteration	310:	error	is	0.63562
Iteration	320:	error	is	0.63527
Iteration	330:	error	is	0.63498
Iteration	340:	error	is	0.63475
Iteration	350:	error	is	0.63455
Iteration	360:	error	is	0.63439
Iteration	370:	error	is	0.63426
Iteration	380:	error	is	0.63414

Iteration	390:	error	is	0.63404
Iteration	400:	error	is	0.63397
Iteration	410:	error	is	0.6339
Iteration	420:	error	is	0.63384
Iteration	430:	error	is	0.63379
Iteration	440:	error	is	0.63374
Iteration	450:	error	is	0.6337
Iteration	460:	error	is	0.63367
Iteration	470:	error	is	0.63364
Iteration	480:	error	is	0.63362
Iteration	490:	error	is	0.63359
Iteration	500:	error	is	0.63357
Iteration	510:	error	is	0.63356
Iteration	520:	error	is	0.63354
Iteration	530:	error	is	0.63353
Iteration	540:	error	is	0.63352
Iteration	550:	error	is	0.63351
Iteration	560:	error	is	0.6335
Iteration	570:	error	is	0.63349
Iteration	580:	error	is	0.63349
Iteration	590:	error	is	0.63348



Iteration	600:	error	is	0.63347
Iteration	610:	error	is	0.63347
Iteration	620:	error	is	0.63347
Iteration	630:	error	is	0.63346
Iteration	640:	error	is	0.63346
Iteration	650:	error	is	0.63345
Iteration	660:	error	is	0.63345
Iteration	670:	error	is	0.63345
Iteration	680:	error	is	0.63345
Iteration	690:	error	is	0.63345
Iteration	700:	error	is	0.63344
Iteration	710:	error	is	0.63344
Iteration	720:	error	is	0.63344
Iteration	730:	error	is	0.63344
Iteration	740:	error	is	0.63344
Iteration	750:	error	is	0.63344
Iteration	760:	error	is	0.63344
Iteration	770:	error	is	0.63344
Iteration	780:	error	is	0.63344
Iteration	790:	error	is	0.63343
Iteration	800:	error	is	0.63343

Iteration 810: error is 0.63343  
Iteration 820: error is 0.63343  
Iteration 830: error is 0.63343  
Iteration 840: error is 0.63343  
Iteration 850: error is 0.63343  
Iteration 860: error is 0.63343  
Iteration 870: error is 0.63343  
Iteration 880: error is 0.63343  
Iteration 890: error is 0.63343  
Iteration 900: error is 0.63343  
Iteration 910: error is 0.63343  
Iteration 920: error is 0.63343  
Iteration 930: error is 0.63343  
Iteration 940: error is 0.63343  
Iteration 950: error is 0.63343  
Iteration 960: error is 0.63343  
Iteration 970: error is 0.63343  
Iteration 980: error is 0.63343  
Iteration 990: error is 0.63343  
Iteration 1000: error is 0.63343  
J\_new = 0.8400

```
J_new = 0.8266
J_new = 0.8145
J_new = 0.8116
J_new = 0.8100
J_new = 0.8058
J_new = 0.8009
J_new = 0.7855
J_new = 0.7434
J_new = 0.7420
J_new = 0.7426
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.9468
Iteration 20: error is 37.4541
Iteration 30: error is 37.301
Iteration 40: error is 37.1213
Iteration 50: error is 37.0785
Iteration 60: error is 37.2981
Iteration 70: error is 37.1567
Iteration 80: error is 37.2489
```

Iteration 90: error is 37.2374  
Iteration 100: error is 2.179  
Iteration 110: error is 1.3166  
Iteration 120: error is 0.94782  
Iteration 130: error is 0.80785  
Iteration 140: error is 0.70006  
Iteration 150: error is 0.6674  
Iteration 160: error is 0.66021  
Iteration 170: error is 0.65551  
Iteration 180: error is 0.65192  
Iteration 190: error is 0.64902  
Iteration 200: error is 0.64671  
Iteration 210: error is 0.64493  
Iteration 220: error is 0.64344  
Iteration 230: error is 0.64216  
Iteration 240: error is 0.64114  
Iteration 250: error is 0.64018  
Iteration 260: error is 0.63877  
Iteration 270: error is 0.6372  
Iteration 280: error is 0.63605  
Iteration 290: error is 0.63517

Iteration	300:	error	is	0.63451
Iteration	310:	error	is	0.63399
Iteration	320:	error	is	0.63359
Iteration	330:	error	is	0.63327
Iteration	340:	error	is	0.63301
Iteration	350:	error	is	0.6328
Iteration	360:	error	is	0.63263
Iteration	370:	error	is	0.63247
Iteration	380:	error	is	0.63231
Iteration	390:	error	is	0.63214
Iteration	400:	error	is	0.632
Iteration	410:	error	is	0.63188
Iteration	420:	error	is	0.63157
Iteration	430:	error	is	0.63143
Iteration	440:	error	is	0.63137
Iteration	450:	error	is	0.63133
Iteration	460:	error	is	0.6313
Iteration	470:	error	is	0.63126
Iteration	480:	error	is	0.63123
Iteration	490:	error	is	0.6312
Iteration	500:	error	is	0.63117

Iteration	510:	error	is	0.63115
Iteration	520:	error	is	0.63113
Iteration	530:	error	is	0.63112
Iteration	540:	error	is	0.6311
Iteration	550:	error	is	0.63109
Iteration	560:	error	is	0.63107
Iteration	570:	error	is	0.63106
Iteration	580:	error	is	0.63105
Iteration	590:	error	is	0.63105
Iteration	600:	error	is	0.63104
Iteration	610:	error	is	0.63103
Iteration	620:	error	is	0.63103
Iteration	630:	error	is	0.63102
Iteration	640:	error	is	0.63102
Iteration	650:	error	is	0.63101
Iteration	660:	error	is	0.63101
Iteration	670:	error	is	0.63101
Iteration	680:	error	is	0.631
Iteration	690:	error	is	0.631
Iteration	700:	error	is	0.631
Iteration	710:	error	is	0.631

Iteration	720:	error	is	0.63099
Iteration	730:	error	is	0.63099
Iteration	740:	error	is	0.63099
Iteration	750:	error	is	0.63099
Iteration	760:	error	is	0.63099
Iteration	770:	error	is	0.63099
Iteration	780:	error	is	0.63099
Iteration	790:	error	is	0.63098
Iteration	800:	error	is	0.63098
Iteration	810:	error	is	0.63098
Iteration	820:	error	is	0.63098
Iteration	830:	error	is	0.63098
Iteration	840:	error	is	0.63098
Iteration	850:	error	is	0.63098
Iteration	860:	error	is	0.63098
Iteration	870:	error	is	0.63098
Iteration	880:	error	is	0.63098
Iteration	890:	error	is	0.63098
Iteration	900:	error	is	0.63098
Iteration	910:	error	is	0.63098
Iteration	920:	error	is	0.63098

Iteration 930: error is 0.63098  
Iteration 940: error is 0.63098  
Iteration 950: error is 0.63098  
Iteration 960: error is 0.63098  
Iteration 970: error is 0.63098  
Iteration 980: error is 0.63098  
Iteration 990: error is 0.63098  
Iteration 1000: error is 0.63098  
J\_new = 0.8453  
J\_new = 0.8276  
J\_new = 0.8166  
J\_new = 0.8150  
J\_new = 0.8145  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8031  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425



Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.3836  
Iteration 20: error is 36.5764  
Iteration 30: error is 36.831  
Iteration 40: error is 36.7648  
Iteration 50: error is 37.2873  
Iteration 60: error is 37.924  
Iteration 70: error is 37.6533  
Iteration 80: error is 37.4724  
Iteration 90: error is 37.0884  
Iteration 100: error is 2.3804  
Iteration 110: error is 1.2718  
Iteration 120: error is 0.85735  
Iteration 130: error is 0.73665  
Iteration 140: error is 0.71399  
Iteration 150: error is 0.70383  
Iteration 160: error is 0.69831  
Iteration 170: error is 0.69348  
Iteration 180: error is 0.69016

Iteration	190:	error	is	0.68683
Iteration	200:	error	is	0.65812
Iteration	210:	error	is	0.64927
Iteration	220:	error	is	0.64787
Iteration	230:	error	is	0.64663
Iteration	240:	error	is	0.64558
Iteration	250:	error	is	0.6447
Iteration	260:	error	is	0.64331
Iteration	270:	error	is	0.64188
Iteration	280:	error	is	0.6408
Iteration	290:	error	is	0.64004
Iteration	300:	error	is	0.63943
Iteration	310:	error	is	0.63898
Iteration	320:	error	is	0.63861
Iteration	330:	error	is	0.63831
Iteration	340:	error	is	0.63807
Iteration	350:	error	is	0.63787
Iteration	360:	error	is	0.63771
Iteration	370:	error	is	0.63758
Iteration	380:	error	is	0.63747
Iteration	390:	error	is	0.63737

Iteration	400:	error	is	0.63729
Iteration	410:	error	is	0.63723
Iteration	420:	error	is	0.63717
Iteration	430:	error	is	0.63712
Iteration	440:	error	is	0.63708
Iteration	450:	error	is	0.63704
Iteration	460:	error	is	0.63701
Iteration	470:	error	is	0.63699
Iteration	480:	error	is	0.63696
Iteration	490:	error	is	0.63694
Iteration	500:	error	is	0.63693
Iteration	510:	error	is	0.63691
Iteration	520:	error	is	0.6369
Iteration	530:	error	is	0.63688
Iteration	540:	error	is	0.63687
Iteration	550:	error	is	0.63687
Iteration	560:	error	is	0.63686
Iteration	570:	error	is	0.63685
Iteration	580:	error	is	0.63684
Iteration	590:	error	is	0.63684
Iteration	600:	error	is	0.63683

Iteration	610:	error	is	0.63683
Iteration	620:	error	is	0.63682
Iteration	630:	error	is	0.63682
Iteration	640:	error	is	0.63682
Iteration	650:	error	is	0.63681
Iteration	660:	error	is	0.63681
Iteration	670:	error	is	0.63681
Iteration	680:	error	is	0.63681
Iteration	690:	error	is	0.6368
Iteration	700:	error	is	0.6368
Iteration	710:	error	is	0.6368
Iteration	720:	error	is	0.6368
Iteration	730:	error	is	0.6368
Iteration	740:	error	is	0.6368
Iteration	750:	error	is	0.6368
Iteration	760:	error	is	0.6368
Iteration	770:	error	is	0.6368
Iteration	780:	error	is	0.63679
Iteration	790:	error	is	0.63679
Iteration	800:	error	is	0.63679
Iteration	810:	error	is	0.63679

Iteration 820: error is 0.63679  
Iteration 830: error is 0.63679  
Iteration 840: error is 0.63679  
Iteration 850: error is 0.63679  
Iteration 860: error is 0.63679  
Iteration 870: error is 0.63679  
Iteration 880: error is 0.63679  
Iteration 890: error is 0.63679  
Iteration 900: error is 0.63679  
Iteration 910: error is 0.63679  
Iteration 920: error is 0.63679  
Iteration 930: error is 0.63679  
Iteration 940: error is 0.63679  
Iteration 950: error is 0.63679  
Iteration 960: error is 0.63679  
Iteration 970: error is 0.63679  
Iteration 980: error is 0.63679  
Iteration 990: error is 0.63679  
Iteration 1000: error is 0.63679  
J\_new = 0.7961  
J\_new = 0.7676

J\_new = 0.7508  
J\_new = 0.7407  
J\_new = 0.7397  
J\_new = 0.7401  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.044  
Iteration 20: error is 37.2852  
Iteration 30: error is 36.9023  
Iteration 40: error is 36.9713  
Iteration 50: error is 37.3291  
Iteration 60: error is 37.3776  
Iteration 70: error is 37.3758  
Iteration 80: error is 37.0007  
Iteration 90: error is 37.5231  
Iteration 100: error is 2.2548  
Iteration 110: error is 1.1105  
Iteration 120: error is 0.77691  
Iteration 130: error is 0.70694  
Iteration 140: error is 0.68543

Iteration	150:	error	is	0.67439
Iteration	160:	error	is	0.6676
Iteration	170:	error	is	0.66289
Iteration	180:	error	is	0.6593
Iteration	190:	error	is	0.65646
Iteration	200:	error	is	0.65432
Iteration	210:	error	is	0.65252
Iteration	220:	error	is	0.65091
Iteration	230:	error	is	0.64968
Iteration	240:	error	is	0.64861
Iteration	250:	error	is	0.6477
Iteration	260:	error	is	0.64629
Iteration	270:	error	is	0.64499
Iteration	280:	error	is	0.64369
Iteration	290:	error	is	0.64291
Iteration	300:	error	is	0.64231
Iteration	310:	error	is	0.64182
Iteration	320:	error	is	0.64142
Iteration	330:	error	is	0.64111
Iteration	340:	error	is	0.64086
Iteration	350:	error	is	0.64067

Iteration	360:	error	is	0.6405
Iteration	370:	error	is	0.64035
Iteration	380:	error	is	0.64024
Iteration	390:	error	is	0.64014
Iteration	400:	error	is	0.64006
Iteration	410:	error	is	0.63999
Iteration	420:	error	is	0.63993
Iteration	430:	error	is	0.63988
Iteration	440:	error	is	0.63983
Iteration	450:	error	is	0.63979
Iteration	460:	error	is	0.63976
Iteration	470:	error	is	0.63973
Iteration	480:	error	is	0.63971
Iteration	490:	error	is	0.63968
Iteration	500:	error	is	0.63966
Iteration	510:	error	is	0.63965
Iteration	520:	error	is	0.63963
Iteration	530:	error	is	0.63962
Iteration	540:	error	is	0.63961
Iteration	550:	error	is	0.63959
Iteration	560:	error	is	0.63958



Iteration	570:	error	is	0.63953
Iteration	580:	error	is	0.63952
Iteration	590:	error	is	0.63951
Iteration	600:	error	is	0.63951
Iteration	610:	error	is	0.6395
Iteration	620:	error	is	0.6395
Iteration	630:	error	is	0.63949
Iteration	640:	error	is	0.63949
Iteration	650:	error	is	0.63949
Iteration	660:	error	is	0.63948
Iteration	670:	error	is	0.63948
Iteration	680:	error	is	0.63948
Iteration	690:	error	is	0.63947
Iteration	700:	error	is	0.63947
Iteration	710:	error	is	0.63947
Iteration	720:	error	is	0.63947
Iteration	730:	error	is	0.63947
Iteration	740:	error	is	0.63947
Iteration	750:	error	is	0.63947
Iteration	760:	error	is	0.63946
Iteration	770:	error	is	0.63946

Iteration 780: error is 0.63946  
Iteration 790: error is 0.63946  
Iteration 800: error is 0.63946  
Iteration 810: error is 0.63946  
Iteration 820: error is 0.63946  
Iteration 830: error is 0.63946  
Iteration 840: error is 0.63946  
Iteration 850: error is 0.63946  
Iteration 860: error is 0.63946  
Iteration 870: error is 0.63946  
Iteration 880: error is 0.63946  
Iteration 890: error is 0.63946  
Iteration 900: error is 0.63946  
Iteration 910: error is 0.63946  
Iteration 920: error is 0.63946  
Iteration 930: error is 0.63946  
Iteration 940: error is 0.63946  
Iteration 950: error is 0.63946  
Iteration 960: error is 0.63946  
Iteration 970: error is 0.63946  
Iteration 980: error is 0.63946

Iteration 990: error is 0.63946  
Iteration 1000: error is 0.63946  
J\_new = 0.8423  
J\_new = 0.8267  
J\_new = 0.8148  
J\_new = 0.8116  
J\_new = 0.8100  
J\_new = 0.8058  
J\_new = 0.8009  
J\_new = 0.7855  
J\_new = 0.7434  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9613  
Iteration 20: error is 37.0512  
Iteration 30: error is 36.9439  
Iteration 40: error is 36.3122  
Iteration 50: error is 37.2449

Iteration 60: error is 37.2423  
Iteration 70: error is 37.3571  
Iteration 80: error is 37.183  
Iteration 90: error is 36.6816  
Iteration 100: error is 2.3995  
Iteration 110: error is 1.4243  
Iteration 120: error is 0.91498  
Iteration 130: error is 0.83367  
Iteration 140: error is 0.79048  
Iteration 150: error is 0.72422  
Iteration 160: error is 0.67128  
Iteration 170: error is 0.65964  
Iteration 180: error is 0.65607  
Iteration 190: error is 0.6532  
Iteration 200: error is 0.65115  
Iteration 210: error is 0.64949  
Iteration 220: error is 0.64816  
Iteration 230: error is 0.64699  
Iteration 240: error is 0.64599  
Iteration 250: error is 0.64517  
Iteration 260: error is 0.64381

Iteration	270:	error	is	0.64237
Iteration	280:	error	is	0.64128
Iteration	290:	error	is	0.64045
Iteration	300:	error	is	0.63981
Iteration	310:	error	is	0.63934
Iteration	320:	error	is	0.63896
Iteration	330:	error	is	0.63864
Iteration	340:	error	is	0.63839
Iteration	350:	error	is	0.63819
Iteration	360:	error	is	0.63801
Iteration	370:	error	is	0.63787
Iteration	380:	error	is	0.63774
Iteration	390:	error	is	0.63764
Iteration	400:	error	is	0.63755
Iteration	410:	error	is	0.63748
Iteration	420:	error	is	0.63741
Iteration	430:	error	is	0.63736
Iteration	440:	error	is	0.63731
Iteration	450:	error	is	0.63726
Iteration	460:	error	is	0.63722
Iteration	470:	error	is	0.63719

Iteration	480:	error	is	0.63716
Iteration	490:	error	is	0.63713
Iteration	500:	error	is	0.63711
Iteration	510:	error	is	0.63709
Iteration	520:	error	is	0.63707
Iteration	530:	error	is	0.63705
Iteration	540:	error	is	0.63704
Iteration	550:	error	is	0.63702
Iteration	560:	error	is	0.63701
Iteration	570:	error	is	0.637
Iteration	580:	error	is	0.63699
Iteration	590:	error	is	0.63698
Iteration	600:	error	is	0.63697
Iteration	610:	error	is	0.63697
Iteration	620:	error	is	0.63696
Iteration	630:	error	is	0.63696
Iteration	640:	error	is	0.63695
Iteration	650:	error	is	0.63695
Iteration	660:	error	is	0.63694
Iteration	670:	error	is	0.63694
Iteration	680:	error	is	0.63693

Iteration	690:	error	is	0.63693
Iteration	700:	error	is	0.63693
Iteration	710:	error	is	0.63692
Iteration	720:	error	is	0.63692
Iteration	730:	error	is	0.63692
Iteration	740:	error	is	0.63692
Iteration	750:	error	is	0.63692
Iteration	760:	error	is	0.63691
Iteration	770:	error	is	0.63691
Iteration	780:	error	is	0.63691
Iteration	790:	error	is	0.63691
Iteration	800:	error	is	0.63691
Iteration	810:	error	is	0.63691
Iteration	820:	error	is	0.63691
Iteration	830:	error	is	0.63691
Iteration	840:	error	is	0.63691
Iteration	850:	error	is	0.6369
Iteration	860:	error	is	0.6369
Iteration	870:	error	is	0.6369
Iteration	880:	error	is	0.6369
Iteration	890:	error	is	0.6369

Iteration 900: error is 0.6369  
Iteration 910: error is 0.6369  
Iteration 920: error is 0.6369  
Iteration 930: error is 0.6369  
Iteration 940: error is 0.6369  
Iteration 950: error is 0.6369  
Iteration 960: error is 0.6369  
Iteration 970: error is 0.6369  
Iteration 980: error is 0.6369  
Iteration 990: error is 0.6369  
Iteration 1000: error is 0.6369  
J\_new = 0.8514  
J\_new = 0.8279  
J\_new = 0.8161  
J\_new = 0.8148  
J\_new = 0.8143  
J\_new = 0.8107  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8032  
J\_new = 0.7896



J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0769  
Iteration 20: error is 36.8821  
Iteration 30: error is 36.7211  
Iteration 40: error is 37.1192  
Iteration 50: error is 36.8081  
Iteration 60: error is 37.2307  
Iteration 70: error is 36.5909  
Iteration 80: error is 37.1964  
Iteration 90: error is 37.4676  
Iteration 100: error is 2.197  
Iteration 110: error is 1.0871  
Iteration 120: error is 0.81819  
Iteration 130: error is 0.73957  
Iteration 140: error is 0.68749  
Iteration 150: error is 0.66553

Iteration	160:	error	is	0.65905
Iteration	170:	error	is	0.65407
Iteration	180:	error	is	0.65038
Iteration	190:	error	is	0.64744
Iteration	200:	error	is	0.64515
Iteration	210:	error	is	0.64347
Iteration	220:	error	is	0.64179
Iteration	230:	error	is	0.64051
Iteration	240:	error	is	0.6394
Iteration	250:	error	is	0.63844
Iteration	260:	error	is	0.63698
Iteration	270:	error	is	0.63541
Iteration	280:	error	is	0.63423
Iteration	290:	error	is	0.63335
Iteration	300:	error	is	0.63268
Iteration	310:	error	is	0.63215
Iteration	320:	error	is	0.63177
Iteration	330:	error	is	0.63144
Iteration	340:	error	is	0.63118
Iteration	350:	error	is	0.63097
Iteration	360:	error	is	0.63079

Iteration	370:	error	is	0.63065
Iteration	380:	error	is	0.63053
Iteration	390:	error	is	0.63042
Iteration	400:	error	is	0.63034
Iteration	410:	error	is	0.63027
Iteration	420:	error	is	0.63021
Iteration	430:	error	is	0.63015
Iteration	440:	error	is	0.63011
Iteration	450:	error	is	0.63007
Iteration	460:	error	is	0.63003
Iteration	470:	error	is	0.63
Iteration	480:	error	is	0.62997
Iteration	490:	error	is	0.62995
Iteration	500:	error	is	0.62992
Iteration	510:	error	is	0.6299
Iteration	520:	error	is	0.62989
Iteration	530:	error	is	0.62987
Iteration	540:	error	is	0.62986
Iteration	550:	error	is	0.62985
Iteration	560:	error	is	0.62984
Iteration	570:	error	is	0.62983

Iteration	580:	error	is	0.62982
Iteration	590:	error	is	0.62982
Iteration	600:	error	is	0.62981
Iteration	610:	error	is	0.6298
Iteration	620:	error	is	0.6298
Iteration	630:	error	is	0.62979
Iteration	640:	error	is	0.62979
Iteration	650:	error	is	0.62979
Iteration	660:	error	is	0.62978
Iteration	670:	error	is	0.62978
Iteration	680:	error	is	0.62978
Iteration	690:	error	is	0.62977
Iteration	700:	error	is	0.62977
Iteration	710:	error	is	0.62977
Iteration	720:	error	is	0.62977
Iteration	730:	error	is	0.62977
Iteration	740:	error	is	0.62977
Iteration	750:	error	is	0.62976
Iteration	760:	error	is	0.62976
Iteration	770:	error	is	0.62976
Iteration	780:	error	is	0.62976

Iteration 790: error is 0.62976  
Iteration 800: error is 0.62976  
Iteration 810: error is 0.62976  
Iteration 820: error is 0.62976  
Iteration 830: error is 0.62976  
Iteration 840: error is 0.62976  
Iteration 850: error is 0.62976  
Iteration 860: error is 0.62976  
Iteration 870: error is 0.62976  
Iteration 880: error is 0.62976  
Iteration 890: error is 0.62976  
Iteration 900: error is 0.62976  
Iteration 910: error is 0.62976  
Iteration 920: error is 0.62975  
Iteration 930: error is 0.62975  
Iteration 940: error is 0.62975  
Iteration 950: error is 0.62975  
Iteration 960: error is 0.62975  
Iteration 970: error is 0.62975  
Iteration 980: error is 0.62975  
Iteration 990: error is 0.62975

Iteration 1000: error is 0.62975

J\_new = 0.8416

J\_new = 0.8263

J\_new = 0.8146

J\_new = 0.8116

J\_new = 0.8100

J\_new = 0.8058

J\_new = 0.8009

J\_new = 0.7855

J\_new = 0.7434

J\_new = 0.7420

J\_new = 0.7426

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 40.0457

Iteration 20: error is 37.3998

Iteration 30: error is 37.1825

Iteration 40: error is 37.0605

Iteration 50: error is 37.2708

Iteration 60: error is 37.0419

Iteration 70: error is 37.2445  
Iteration 80: error is 37.3601  
Iteration 90: error is 37.5471  
Iteration 100: error is 2.2614  
Iteration 110: error is 1.2836  
Iteration 120: error is 0.81852  
Iteration 130: error is 0.70513  
Iteration 140: error is 0.68181  
Iteration 150: error is 0.67123  
Iteration 160: error is 0.66447  
Iteration 170: error is 0.65933  
Iteration 180: error is 0.65571  
Iteration 190: error is 0.6535  
Iteration 200: error is 0.65065  
Iteration 210: error is 0.64884  
Iteration 220: error is 0.64736  
Iteration 230: error is 0.64612  
Iteration 240: error is 0.64508  
Iteration 250: error is 0.64415  
Iteration 260: error is 0.64271  
Iteration 270: error is 0.64115

Iteration	280:	error	is	0.64001
Iteration	290:	error	is	0.63919
Iteration	300:	error	is	0.63856
Iteration	310:	error	is	0.63807
Iteration	320:	error	is	0.63769
Iteration	330:	error	is	0.63739
Iteration	340:	error	is	0.63714
Iteration	350:	error	is	0.63694
Iteration	360:	error	is	0.63678
Iteration	370:	error	is	0.63664
Iteration	380:	error	is	0.63652
Iteration	390:	error	is	0.63643
Iteration	400:	error	is	0.63634
Iteration	410:	error	is	0.63628
Iteration	420:	error	is	0.63621
Iteration	430:	error	is	0.63616
Iteration	440:	error	is	0.63612
Iteration	450:	error	is	0.63608
Iteration	460:	error	is	0.63605
Iteration	470:	error	is	0.63602
Iteration	480:	error	is	0.63599



Iteration	490:	error	is	0.63597
Iteration	500:	error	is	0.63595
Iteration	510:	error	is	0.63593
Iteration	520:	error	is	0.63591
Iteration	530:	error	is	0.6359
Iteration	540:	error	is	0.63589
Iteration	550:	error	is	0.63588
Iteration	560:	error	is	0.63587
Iteration	570:	error	is	0.63586
Iteration	580:	error	is	0.63585
Iteration	590:	error	is	0.63584
Iteration	600:	error	is	0.63583
Iteration	610:	error	is	0.63583
Iteration	620:	error	is	0.63582
Iteration	630:	error	is	0.63582
Iteration	640:	error	is	0.63582
Iteration	650:	error	is	0.63581
Iteration	660:	error	is	0.63581
Iteration	670:	error	is	0.6358
Iteration	680:	error	is	0.6358
Iteration	690:	error	is	0.6358

Iteration 700: error is 0.6358  
Iteration 710: error is 0.6358  
Iteration 720: error is 0.63579  
Iteration 730: error is 0.63579  
Iteration 740: error is 0.63579  
Iteration 750: error is 0.63579  
Iteration 760: error is 0.63579  
Iteration 770: error is 0.63579  
Iteration 780: error is 0.63579  
Iteration 790: error is 0.63578  
Iteration 800: error is 0.63578  
Iteration 810: error is 0.63578  
Iteration 820: error is 0.63578  
Iteration 830: error is 0.63578  
Iteration 840: error is 0.63578  
Iteration 850: error is 0.63578  
Iteration 860: error is 0.63578  
Iteration 870: error is 0.63578  
Iteration 880: error is 0.63578  
Iteration 890: error is 0.63578  
Iteration 900: error is 0.63578

Iteration 910: error is 0.63578  
Iteration 920: error is 0.63578  
Iteration 930: error is 0.63578  
Iteration 940: error is 0.63578  
Iteration 950: error is 0.63578  
Iteration 960: error is 0.63578  
Iteration 970: error is 0.63578  
Iteration 980: error is 0.63578  
Iteration 990: error is 0.63578  
Iteration 1000: error is 0.63578  
J\_new = 0.8693  
J\_new = 0.8358  
J\_new = 0.8233  
J\_new = 0.8142  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8031  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418

J\_new = 0.7425

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.2299

Iteration 20: error is 37.1384

Iteration 30: error is 36.8842

Iteration 40: error is 36.7533

Iteration 50: error is 37.0079

Iteration 60: error is 36.7442

Iteration 70: error is 36.6901

Iteration 80: error is 36.8998

Iteration 90: error is 37.4389

Iteration 100: error is 2.117

Iteration 110: error is 1.095

Iteration 120: error is 0.8363

Iteration 130: error is 0.7183

Iteration 140: error is 0.68598

Iteration 150: error is 0.67529

Iteration 160: error is 0.66817

Iteration 170: error is 0.66329

Iteration	180:	error	is	0.65958
Iteration	190:	error	is	0.65669
Iteration	200:	error	is	0.65446
Iteration	210:	error	is	0.65266
Iteration	220:	error	is	0.65109
Iteration	230:	error	is	0.64977
Iteration	240:	error	is	0.64869
Iteration	250:	error	is	0.64775
Iteration	260:	error	is	0.6463
Iteration	270:	error	is	0.64472
Iteration	280:	error	is	0.64362
Iteration	290:	error	is	0.64281
Iteration	300:	error	is	0.64219
Iteration	310:	error	is	0.64173
Iteration	320:	error	is	0.64136
Iteration	330:	error	is	0.64105
Iteration	340:	error	is	0.64082
Iteration	350:	error	is	0.64062
Iteration	360:	error	is	0.64047
Iteration	370:	error	is	0.64033
Iteration	380:	error	is	0.64022

Iteration	390:	error	is	0.64013
Iteration	400:	error	is	0.64005
Iteration	410:	error	is	0.63998
Iteration	420:	error	is	0.63992
Iteration	430:	error	is	0.63987
Iteration	440:	error	is	0.63983
Iteration	450:	error	is	0.63979
Iteration	460:	error	is	0.63976
Iteration	470:	error	is	0.63973
Iteration	480:	error	is	0.63971
Iteration	490:	error	is	0.63969
Iteration	500:	error	is	0.63967
Iteration	510:	error	is	0.63965
Iteration	520:	error	is	0.63964
Iteration	530:	error	is	0.63963
Iteration	540:	error	is	0.63962
Iteration	550:	error	is	0.63961
Iteration	560:	error	is	0.6396
Iteration	570:	error	is	0.63959
Iteration	580:	error	is	0.63958
Iteration	590:	error	is	0.63958

Iteration	600:	error	is	0.63957
Iteration	610:	error	is	0.63957
Iteration	620:	error	is	0.63956
Iteration	630:	error	is	0.63956
Iteration	640:	error	is	0.63956
Iteration	650:	error	is	0.63955
Iteration	660:	error	is	0.63955
Iteration	670:	error	is	0.63955
Iteration	680:	error	is	0.63955
Iteration	690:	error	is	0.63954
Iteration	700:	error	is	0.63954
Iteration	710:	error	is	0.63954
Iteration	720:	error	is	0.63954
Iteration	730:	error	is	0.63954
Iteration	740:	error	is	0.63954
Iteration	750:	error	is	0.63954
Iteration	760:	error	is	0.63954
Iteration	770:	error	is	0.63953
Iteration	780:	error	is	0.63953
Iteration	790:	error	is	0.63953
Iteration	800:	error	is	0.63953

Iteration 810: error is 0.63953  
Iteration 820: error is 0.63953  
Iteration 830: error is 0.63953  
Iteration 840: error is 0.63953  
Iteration 850: error is 0.63953  
Iteration 860: error is 0.63953  
Iteration 870: error is 0.63953  
Iteration 880: error is 0.63953  
Iteration 890: error is 0.63953  
Iteration 900: error is 0.63953  
Iteration 910: error is 0.63953  
Iteration 920: error is 0.63953  
Iteration 930: error is 0.63953  
Iteration 940: error is 0.63953  
Iteration 950: error is 0.63953  
Iteration 960: error is 0.63953  
Iteration 970: error is 0.63953  
Iteration 980: error is 0.63953  
Iteration 990: error is 0.63953  
Iteration 1000: error is 0.63953  
J\_new = 0.8429



J\_new = 0.8271  
J\_new = 0.8166  
J\_new = 0.8150  
J\_new = 0.8145  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8031  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 40.3063  
Iteration 20: error is 36.6862  
Iteration 30: error is 37.0244  
Iteration 40: error is 36.9222  
Iteration 50: error is 36.9102  
Iteration 60: error is 36.9089

Iteration 70: error is 37.1668  
Iteration 80: error is 37.636  
Iteration 90: error is 37.6127  
Iteration 100: error is 2.2423  
Iteration 110: error is 1.2087  
Iteration 120: error is 0.82911  
Iteration 130: error is 0.76046  
Iteration 140: error is 0.6816  
Iteration 150: error is 0.66893  
Iteration 160: error is 0.66129  
Iteration 170: error is 0.65635  
Iteration 180: error is 0.65247  
Iteration 190: error is 0.64973  
Iteration 200: error is 0.64751  
Iteration 210: error is 0.64565  
Iteration 220: error is 0.64416  
Iteration 230: error is 0.64307  
Iteration 240: error is 0.64194  
Iteration 250: error is 0.64103  
Iteration 260: error is 0.63964  
Iteration 270: error is 0.63816

Iteration	280:	error	is	0.63707
Iteration	290:	error	is	0.63622
Iteration	300:	error	is	0.63557
Iteration	310:	error	is	0.63505
Iteration	320:	error	is	0.63467
Iteration	330:	error	is	0.63437
Iteration	340:	error	is	0.63411
Iteration	350:	error	is	0.63391
Iteration	360:	error	is	0.63374
Iteration	370:	error	is	0.63361
Iteration	380:	error	is	0.6335
Iteration	390:	error	is	0.6334
Iteration	400:	error	is	0.63332
Iteration	410:	error	is	0.63325
Iteration	420:	error	is	0.63319
Iteration	430:	error	is	0.63314
Iteration	440:	error	is	0.63309
Iteration	450:	error	is	0.63306
Iteration	460:	error	is	0.63302
Iteration	470:	error	is	0.63299
Iteration	480:	error	is	0.63297

Iteration	490:	error	is	0.63295
Iteration	500:	error	is	0.63293
Iteration	510:	error	is	0.63291
Iteration	520:	error	is	0.6329
Iteration	530:	error	is	0.63288
Iteration	540:	error	is	0.63287
Iteration	550:	error	is	0.63286
Iteration	560:	error	is	0.63285
Iteration	570:	error	is	0.63285
Iteration	580:	error	is	0.63284
Iteration	590:	error	is	0.63283
Iteration	600:	error	is	0.63283
Iteration	610:	error	is	0.63282
Iteration	620:	error	is	0.63282
Iteration	630:	error	is	0.63281
Iteration	640:	error	is	0.63281
Iteration	650:	error	is	0.63281
Iteration	660:	error	is	0.63281
Iteration	670:	error	is	0.6328
Iteration	680:	error	is	0.6328
Iteration	690:	error	is	0.6328

Iteration 700: error is 0.6328  
Iteration 710: error is 0.6328  
Iteration 720: error is 0.63279  
Iteration 730: error is 0.63279  
Iteration 740: error is 0.63279  
Iteration 750: error is 0.63279  
Iteration 760: error is 0.63279  
Iteration 770: error is 0.63279  
Iteration 780: error is 0.63279  
Iteration 790: error is 0.63279  
Iteration 800: error is 0.63279  
Iteration 810: error is 0.63279  
Iteration 820: error is 0.63279  
Iteration 830: error is 0.63279  
Iteration 840: error is 0.63279  
Iteration 850: error is 0.63279  
Iteration 860: error is 0.63279  
Iteration 870: error is 0.63279  
Iteration 880: error is 0.63279  
Iteration 890: error is 0.63279  
Iteration 900: error is 0.63279

Iteration 910: error is 0.63279  
Iteration 920: error is 0.63278  
Iteration 930: error is 0.63278  
Iteration 940: error is 0.63278  
Iteration 950: error is 0.63278  
Iteration 960: error is 0.63278  
Iteration 970: error is 0.63278  
Iteration 980: error is 0.63278  
Iteration 990: error is 0.63278  
Iteration 1000: error is 0.63278  
J\_new = 0.8689  
J\_new = 0.8388  
J\_new = 0.8218  
J\_new = 0.8099  
J\_new = 0.8060  
J\_new = 0.8011  
J\_new = 0.7854  
J\_new = 0.7430  
J\_new = 0.7416  
J\_new = 0.7423  
Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 40.0725  
Iteration 20: error is 37.4635  
Iteration 30: error is 37.3699  
Iteration 40: error is 36.6991  
Iteration 50: error is 36.884  
Iteration 60: error is 36.9212  
Iteration 70: error is 36.905  
Iteration 80: error is 37.2185  
Iteration 90: error is 37.3731  
Iteration 100: error is 2.2393  
Iteration 110: error is 1.2014  
Iteration 120: error is 0.81819  
Iteration 130: error is 0.72749  
Iteration 140: error is 0.68419  
Iteration 150: error is 0.66698  
Iteration 160: error is 0.66062  
Iteration 170: error is 0.6557  
Iteration 180: error is 0.652  
Iteration 190: error is 0.64908

Iteration	200:	error	is	0.64683
Iteration	210:	error	is	0.64509
Iteration	220:	error	is	0.64347
Iteration	230:	error	is	0.64215
Iteration	240:	error	is	0.64107
Iteration	250:	error	is	0.64014
Iteration	260:	error	is	0.63861
Iteration	270:	error	is	0.63703
Iteration	280:	error	is	0.63581
Iteration	290:	error	is	0.63487
Iteration	300:	error	is	0.63419
Iteration	310:	error	is	0.63368
Iteration	320:	error	is	0.63328
Iteration	330:	error	is	0.63297
Iteration	340:	error	is	0.63271
Iteration	350:	error	is	0.63249
Iteration	360:	error	is	0.63232
Iteration	370:	error	is	0.63217
Iteration	380:	error	is	0.63205
Iteration	390:	error	is	0.63194
Iteration	400:	error	is	0.63185



Iteration	410:	error	is	0.63177
Iteration	420:	error	is	0.6317
Iteration	430:	error	is	0.63164
Iteration	440:	error	is	0.63159
Iteration	450:	error	is	0.63155
Iteration	460:	error	is	0.63151
Iteration	470:	error	is	0.63147
Iteration	480:	error	is	0.63144
Iteration	490:	error	is	0.63141
Iteration	500:	error	is	0.63139
Iteration	510:	error	is	0.63137
Iteration	520:	error	is	0.63135
Iteration	530:	error	is	0.63133
Iteration	540:	error	is	0.63132
Iteration	550:	error	is	0.63131
Iteration	560:	error	is	0.63129
Iteration	570:	error	is	0.63128
Iteration	580:	error	is	0.63127
Iteration	590:	error	is	0.63127
Iteration	600:	error	is	0.63126
Iteration	610:	error	is	0.63125

Iteration	620:	error	is	0.63124
Iteration	630:	error	is	0.63124
Iteration	640:	error	is	0.63123
Iteration	650:	error	is	0.63123
Iteration	660:	error	is	0.63122
Iteration	670:	error	is	0.63122
Iteration	680:	error	is	0.63122
Iteration	690:	error	is	0.63121
Iteration	700:	error	is	0.63121
Iteration	710:	error	is	0.63121
Iteration	720:	error	is	0.63121
Iteration	730:	error	is	0.63121
Iteration	740:	error	is	0.6312
Iteration	750:	error	is	0.6312
Iteration	760:	error	is	0.6312
Iteration	770:	error	is	0.6312
Iteration	780:	error	is	0.6312
Iteration	790:	error	is	0.6312
Iteration	800:	error	is	0.63119
Iteration	810:	error	is	0.63119
Iteration	820:	error	is	0.63119

Iteration 830: error is 0.63119  
Iteration 840: error is 0.63119  
Iteration 850: error is 0.63119  
Iteration 860: error is 0.63119  
Iteration 870: error is 0.63119  
Iteration 880: error is 0.63119  
Iteration 890: error is 0.63119  
Iteration 900: error is 0.63119  
Iteration 910: error is 0.63119  
Iteration 920: error is 0.63119  
Iteration 930: error is 0.63119  
Iteration 940: error is 0.63119  
Iteration 950: error is 0.63119  
Iteration 960: error is 0.63119  
Iteration 970: error is 0.63119  
Iteration 980: error is 0.63119  
Iteration 990: error is 0.63119  
Iteration 1000: error is 0.63118  
J\_new = 0.8324  
J\_new = 0.8189  
J\_new = 0.8146

J\_new = 0.8126  
J\_new = 0.8094  
J\_new = 0.8069  
J\_new = 0.8004  
J\_new = 0.7865  
J\_new = 0.7426  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.8127  
Iteration 20: error is 36.1601  
Iteration 30: error is 36.0184  
Iteration 40: error is 36.899  
Iteration 50: error is 36.5609  
Iteration 60: error is 37.1529  
Iteration 70: error is 36.8295  
Iteration 80: error is 36.7258  
Iteration 90: error is 37.1488  
Iteration 100: error is 2.0237  
Iteration 110: error is 1.2771

Iteration	120:	error	is	0.822
Iteration	130:	error	is	0.74095
Iteration	140:	error	is	0.68696
Iteration	150:	error	is	0.67031
Iteration	160:	error	is	0.664
Iteration	170:	error	is	0.65942
Iteration	180:	error	is	0.65578
Iteration	190:	error	is	0.6531
Iteration	200:	error	is	0.65091
Iteration	210:	error	is	0.64919
Iteration	220:	error	is	0.64773
Iteration	230:	error	is	0.64652
Iteration	240:	error	is	0.64559
Iteration	250:	error	is	0.6446
Iteration	260:	error	is	0.64323
Iteration	270:	error	is	0.6418
Iteration	280:	error	is	0.64075
Iteration	290:	error	is	0.63999
Iteration	300:	error	is	0.6394
Iteration	310:	error	is	0.63893
Iteration	320:	error	is	0.63856

Iteration	330:	error	is	0.63829
Iteration	340:	error	is	0.63806
Iteration	350:	error	is	0.63786
Iteration	360:	error	is	0.6377
Iteration	370:	error	is	0.63758
Iteration	380:	error	is	0.63746
Iteration	390:	error	is	0.63737
Iteration	400:	error	is	0.6373
Iteration	410:	error	is	0.63723
Iteration	420:	error	is	0.63717
Iteration	430:	error	is	0.63713
Iteration	440:	error	is	0.63708
Iteration	450:	error	is	0.63705
Iteration	460:	error	is	0.63701
Iteration	470:	error	is	0.63699
Iteration	480:	error	is	0.63696
Iteration	490:	error	is	0.63694
Iteration	500:	error	is	0.63692
Iteration	510:	error	is	0.63691
Iteration	520:	error	is	0.63689
Iteration	530:	error	is	0.63688

Iteration	540:	error	is	0.63687
Iteration	550:	error	is	0.63686
Iteration	560:	error	is	0.63685
Iteration	570:	error	is	0.63684
Iteration	580:	error	is	0.63684
Iteration	590:	error	is	0.63683
Iteration	600:	error	is	0.63682
Iteration	610:	error	is	0.63682
Iteration	620:	error	is	0.63681
Iteration	630:	error	is	0.63681
Iteration	640:	error	is	0.63681
Iteration	650:	error	is	0.6368
Iteration	660:	error	is	0.6368
Iteration	670:	error	is	0.6368
Iteration	680:	error	is	0.6368
Iteration	690:	error	is	0.63679
Iteration	700:	error	is	0.63679
Iteration	710:	error	is	0.63679
Iteration	720:	error	is	0.63679
Iteration	730:	error	is	0.63679
Iteration	740:	error	is	0.63679

Iteration 750: error is 0.63679  
Iteration 760: error is 0.63679  
Iteration 770: error is 0.63679  
Iteration 780: error is 0.63678  
Iteration 790: error is 0.63678  
Iteration 800: error is 0.63678  
Iteration 810: error is 0.63678  
Iteration 820: error is 0.63678  
Iteration 830: error is 0.63678  
Iteration 840: error is 0.63678  
Iteration 850: error is 0.63678  
Iteration 860: error is 0.63678  
Iteration 870: error is 0.63678  
Iteration 880: error is 0.63678  
Iteration 890: error is 0.63678  
Iteration 900: error is 0.63678  
Iteration 910: error is 0.63678  
Iteration 920: error is 0.63678  
Iteration 930: error is 0.63678  
Iteration 940: error is 0.63678  
Iteration 950: error is 0.63678



Iteration 960: error is 0.63678  
Iteration 970: error is 0.63678  
Iteration 980: error is 0.63678  
Iteration 990: error is 0.63678  
Iteration 1000: error is 0.63678  
J\_new = 0.8346  
J\_new = 0.8192  
J\_new = 0.8171  
J\_new = 0.8162  
J\_new = 0.8139  
J\_new = 0.8119  
J\_new = 0.8083  
J\_new = 0.8064  
J\_new = 0.8026  
J\_new = 0.7908  
J\_new = 0.7815  
J\_new = 0.7429  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312  
Iteration 10: error is 39.5344  
Iteration 20: error is 36.6532  
Iteration 30: error is 36.6515  
Iteration 40: error is 36.8431  
Iteration 50: error is 36.5851  
Iteration 60: error is 36.9775  
Iteration 70: error is 37.4402  
Iteration 80: error is 37.3687  
Iteration 90: error is 37.0607  
Iteration 100: error is 2.1836  
Iteration 110: error is 0.98028  
Iteration 120: error is 0.74921  
Iteration 130: error is 0.70049  
Iteration 140: error is 0.68262  
Iteration 150: error is 0.67238  
Iteration 160: error is 0.6654  
Iteration 170: error is 0.66062  
Iteration 180: error is 0.65682  
Iteration 190: error is 0.654  
Iteration 200: error is 0.65177

Iteration	210:	error	is	0.64995
Iteration	220:	error	is	0.64852
Iteration	230:	error	is	0.64735
Iteration	240:	error	is	0.64628
Iteration	250:	error	is	0.6454
Iteration	260:	error	is	0.6441
Iteration	270:	error	is	0.64267
Iteration	280:	error	is	0.64154
Iteration	290:	error	is	0.64073
Iteration	300:	error	is	0.64013
Iteration	310:	error	is	0.63967
Iteration	320:	error	is	0.63929
Iteration	330:	error	is	0.63901
Iteration	340:	error	is	0.63877
Iteration	350:	error	is	0.63856
Iteration	360:	error	is	0.6384
Iteration	370:	error	is	0.63827
Iteration	380:	error	is	0.63815
Iteration	390:	error	is	0.63806
Iteration	400:	error	is	0.63798
Iteration	410:	error	is	0.63792

Iteration	420:	error	is	0.63786
Iteration	430:	error	is	0.63781
Iteration	440:	error	is	0.63777
Iteration	450:	error	is	0.63773
Iteration	460:	error	is	0.6377
Iteration	470:	error	is	0.63767
Iteration	480:	error	is	0.63765
Iteration	490:	error	is	0.63763
Iteration	500:	error	is	0.63761
Iteration	510:	error	is	0.63759
Iteration	520:	error	is	0.63758
Iteration	530:	error	is	0.63757
Iteration	540:	error	is	0.63756
Iteration	550:	error	is	0.63755
Iteration	560:	error	is	0.63754
Iteration	570:	error	is	0.63753
Iteration	580:	error	is	0.63753
Iteration	590:	error	is	0.63752
Iteration	600:	error	is	0.63752
Iteration	610:	error	is	0.63751
Iteration	620:	error	is	0.63751

Iteration 630: error is 0.6375  
Iteration 640: error is 0.6375  
Iteration 650: error is 0.6375  
Iteration 660: error is 0.6375  
Iteration 670: error is 0.63749  
Iteration 680: error is 0.63749  
Iteration 690: error is 0.63749  
Iteration 700: error is 0.63749  
Iteration 710: error is 0.63749  
Iteration 720: error is 0.63749  
Iteration 730: error is 0.63748  
Iteration 740: error is 0.63748  
Iteration 750: error is 0.63748  
Iteration 760: error is 0.63748  
Iteration 770: error is 0.63748  
Iteration 780: error is 0.63748  
Iteration 790: error is 0.63748  
Iteration 800: error is 0.63748  
Iteration 810: error is 0.63748  
Iteration 820: error is 0.63748  
Iteration 830: error is 0.63748

Iteration 840: error is 0.63748  
Iteration 850: error is 0.63748  
Iteration 860: error is 0.63748  
Iteration 870: error is 0.63748  
Iteration 880: error is 0.63748  
Iteration 890: error is 0.63748  
Iteration 900: error is 0.63748  
Iteration 910: error is 0.63748  
Iteration 920: error is 0.63748  
Iteration 930: error is 0.63748  
Iteration 940: error is 0.63748  
Iteration 950: error is 0.63748  
Iteration 960: error is 0.63748  
Iteration 970: error is 0.63748  
Iteration 980: error is 0.63748  
Iteration 990: error is 0.63748  
Iteration 1000: error is 0.63748  
J\_new = 0.8459  
J\_new = 0.8294  
J\_new = 0.8188  
J\_new = 0.8162

J\_new = 0.8166

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.1785

Iteration 20: error is 37.0989

Iteration 30: error is 37.0646

Iteration 40: error is 36.9653

Iteration 50: error is 37.0603

Iteration 60: error is 37.5136

Iteration 70: error is 37.5363

Iteration 80: error is 37.5086

Iteration 90: error is 37.8399

Iteration 100: error is 2.1363

Iteration 110: error is 1.1956

Iteration 120: error is 0.78194

Iteration 130: error is 0.71672

Iteration 140: error is 0.68139

Iteration 150: error is 0.66988

Iteration 160: error is 0.66422

Iteration 170: error is 0.65947

Iteration	180:	error	is	0.65618
Iteration	190:	error	is	0.65337
Iteration	200:	error	is	0.65122
Iteration	210:	error	is	0.64944
Iteration	220:	error	is	0.64791
Iteration	230:	error	is	0.64645
Iteration	240:	error	is	0.64364
Iteration	250:	error	is	0.64274
Iteration	260:	error	is	0.6413
Iteration	270:	error	is	0.63974
Iteration	280:	error	is	0.63864
Iteration	290:	error	is	0.63785
Iteration	300:	error	is	0.63726
Iteration	310:	error	is	0.63678
Iteration	320:	error	is	0.63642
Iteration	330:	error	is	0.63613
Iteration	340:	error	is	0.63589
Iteration	350:	error	is	0.63569
Iteration	360:	error	is	0.63553
Iteration	370:	error	is	0.6354
Iteration	380:	error	is	0.63528



Iteration	390:	error	is	0.63519
Iteration	400:	error	is	0.63511
Iteration	410:	error	is	0.63504
Iteration	420:	error	is	0.63498
Iteration	430:	error	is	0.63493
Iteration	440:	error	is	0.63488
Iteration	450:	error	is	0.63484
Iteration	460:	error	is	0.63481
Iteration	470:	error	is	0.63478
Iteration	480:	error	is	0.63475
Iteration	490:	error	is	0.63473
Iteration	500:	error	is	0.63471
Iteration	510:	error	is	0.63469
Iteration	520:	error	is	0.63467
Iteration	530:	error	is	0.63466
Iteration	540:	error	is	0.63465
Iteration	550:	error	is	0.63464
Iteration	560:	error	is	0.63463
Iteration	570:	error	is	0.63462
Iteration	580:	error	is	0.63461
Iteration	590:	error	is	0.63461

Iteration	600:	error	is	0.6346
Iteration	610:	error	is	0.63459
Iteration	620:	error	is	0.63459
Iteration	630:	error	is	0.63458
Iteration	640:	error	is	0.63458
Iteration	650:	error	is	0.63458
Iteration	660:	error	is	0.63457
Iteration	670:	error	is	0.63457
Iteration	680:	error	is	0.63457
Iteration	690:	error	is	0.63457
Iteration	700:	error	is	0.63457
Iteration	710:	error	is	0.63456
Iteration	720:	error	is	0.63456
Iteration	730:	error	is	0.63456
Iteration	740:	error	is	0.63456
Iteration	750:	error	is	0.63456
Iteration	760:	error	is	0.63456
Iteration	770:	error	is	0.63456
Iteration	780:	error	is	0.63456
Iteration	790:	error	is	0.63455
Iteration	800:	error	is	0.63455

Iteration 810: error is 0.63455  
Iteration 820: error is 0.63455  
Iteration 830: error is 0.63455  
Iteration 840: error is 0.63455  
Iteration 850: error is 0.63455  
Iteration 860: error is 0.63455  
Iteration 870: error is 0.63455  
Iteration 880: error is 0.63455  
Iteration 890: error is 0.63455  
Iteration 900: error is 0.63455  
Iteration 910: error is 0.63455  
Iteration 920: error is 0.63455  
Iteration 930: error is 0.63455  
Iteration 940: error is 0.63455  
Iteration 950: error is 0.63455  
Iteration 960: error is 0.63455  
Iteration 970: error is 0.63455  
Iteration 980: error is 0.63455  
Iteration 990: error is 0.63455  
Iteration 1000: error is 0.63455  
J\_new = 0.8486

```
J_new = 0.8265
J_new = 0.8147
J_new = 0.8115
J_new = 0.8101
J_new = 0.8057
J_new = 0.8010
J_new = 0.7854
J_new = 0.7435
J_new = 0.7419
J_new = 0.7428
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 38.671
Iteration 20: error is 36.9636
Iteration 30: error is 36.454
Iteration 40: error is 36.8364
Iteration 50: error is 37.1997
Iteration 60: error is 37.2005
Iteration 70: error is 37.2284
Iteration 80: error is 37.005
```

Iteration	90:	error is	37.0916
Iteration	100:	error is	2.2722
Iteration	110:	error is	1.2857
Iteration	120:	error is	0.96325
Iteration	130:	error is	0.80245
Iteration	140:	error is	0.73453
Iteration	150:	error is	0.70946
Iteration	160:	error is	0.69853
Iteration	170:	error is	0.69437
Iteration	180:	error is	0.69104
Iteration	190:	error is	0.68853
Iteration	200:	error is	0.68666
Iteration	210:	error is	0.68508
Iteration	220:	error is	0.68369
Iteration	230:	error is	0.68259
Iteration	240:	error is	0.68152
Iteration	250:	error is	0.68071
Iteration	260:	error is	0.67948
Iteration	270:	error is	0.67823
Iteration	280:	error is	0.67724
Iteration	290:	error is	0.67201

Iteration	300:	error	is	0.65285
Iteration	310:	error	is	0.64444
Iteration	320:	error	is	0.64224
Iteration	330:	error	is	0.64121
Iteration	340:	error	is	0.6406
Iteration	350:	error	is	0.6401
Iteration	360:	error	is	0.63985
Iteration	370:	error	is	0.63965
Iteration	380:	error	is	0.63947
Iteration	390:	error	is	0.63931
Iteration	400:	error	is	0.63918
Iteration	410:	error	is	0.63906
Iteration	420:	error	is	0.63896
Iteration	430:	error	is	0.63887
Iteration	440:	error	is	0.6388
Iteration	450:	error	is	0.63874
Iteration	460:	error	is	0.63869
Iteration	470:	error	is	0.63864
Iteration	480:	error	is	0.6386
Iteration	490:	error	is	0.63856
Iteration	500:	error	is	0.63853

Iteration	510:	error	is	0.63851
Iteration	520:	error	is	0.63848
Iteration	530:	error	is	0.63846
Iteration	540:	error	is	0.63844
Iteration	550:	error	is	0.63843
Iteration	560:	error	is	0.63841
Iteration	570:	error	is	0.6384
Iteration	580:	error	is	0.63839
Iteration	590:	error	is	0.63838
Iteration	600:	error	is	0.63837
Iteration	610:	error	is	0.63836
Iteration	620:	error	is	0.63836
Iteration	630:	error	is	0.63835
Iteration	640:	error	is	0.63834
Iteration	650:	error	is	0.63834
Iteration	660:	error	is	0.63833
Iteration	670:	error	is	0.63833
Iteration	680:	error	is	0.63833
Iteration	690:	error	is	0.63832
Iteration	700:	error	is	0.63832
Iteration	710:	error	is	0.63832

Iteration 720: error is 0.63832  
Iteration 730: error is 0.63831  
Iteration 740: error is 0.63831  
Iteration 750: error is 0.63831  
Iteration 760: error is 0.63831  
Iteration 770: error is 0.63831  
Iteration 780: error is 0.63831  
Iteration 790: error is 0.6383  
Iteration 800: error is 0.6383  
Iteration 810: error is 0.6383  
Iteration 820: error is 0.6383  
Iteration 830: error is 0.6383  
Iteration 840: error is 0.6383  
Iteration 850: error is 0.6383  
Iteration 860: error is 0.6383  
Iteration 870: error is 0.6383  
Iteration 880: error is 0.6383  
Iteration 890: error is 0.6383  
Iteration 900: error is 0.6383  
Iteration 910: error is 0.6383  
Iteration 920: error is 0.6383



Iteration 930: error is 0.6383  
Iteration 940: error is 0.6383  
Iteration 950: error is 0.6383  
Iteration 960: error is 0.63829  
Iteration 970: error is 0.63829  
Iteration 980: error is 0.63829  
Iteration 990: error is 0.63829  
Iteration 1000: error is 0.63829  
J\_new = 0.8468  
J\_new = 0.8329  
J\_new = 0.8238  
J\_new = 0.8217  
J\_new = 0.8228  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.6529  
Iteration 20: error is 36.8493  
Iteration 30: error is 36.9484  
Iteration 40: error is 37.6785  
Iteration 50: error is 37.3785

Iteration 60: error is 37.184  
Iteration 70: error is 37.5954  
Iteration 80: error is 37.4321  
Iteration 90: error is 37.7045  
Iteration 100: error is 2.3193  
Iteration 110: error is 1.1669  
Iteration 120: error is 0.86169  
Iteration 130: error is 0.72219  
Iteration 140: error is 0.72025  
Iteration 150: error is 0.68362  
Iteration 160: error is 0.66154  
Iteration 170: error is 0.6569  
Iteration 180: error is 0.65361  
Iteration 190: error is 0.65036  
Iteration 200: error is 0.64805  
Iteration 210: error is 0.64631  
Iteration 220: error is 0.64483  
Iteration 230: error is 0.64363  
Iteration 240: error is 0.64268  
Iteration 250: error is 0.64166  
Iteration 260: error is 0.64023

Iteration	270:	error	is	0.63875
Iteration	280:	error	is	0.63757
Iteration	290:	error	is	0.63664
Iteration	300:	error	is	0.63583
Iteration	310:	error	is	0.63532
Iteration	320:	error	is	0.63492
Iteration	330:	error	is	0.63462
Iteration	340:	error	is	0.63432
Iteration	350:	error	is	0.63318
Iteration	360:	error	is	0.63213
Iteration	370:	error	is	0.63163
Iteration	380:	error	is	0.63135
Iteration	390:	error	is	0.6312
Iteration	400:	error	is	0.6311
Iteration	410:	error	is	0.63102
Iteration	420:	error	is	0.63095
Iteration	430:	error	is	0.63088
Iteration	440:	error	is	0.63083
Iteration	450:	error	is	0.63079
Iteration	460:	error	is	0.63075
Iteration	470:	error	is	0.63071

Iteration	480:	error	is	0.63068
Iteration	490:	error	is	0.63066
Iteration	500:	error	is	0.63064
Iteration	510:	error	is	0.63062
Iteration	520:	error	is	0.6306
Iteration	530:	error	is	0.63058
Iteration	540:	error	is	0.63057
Iteration	550:	error	is	0.63056
Iteration	560:	error	is	0.63055
Iteration	570:	error	is	0.63054
Iteration	580:	error	is	0.63053
Iteration	590:	error	is	0.63052
Iteration	600:	error	is	0.63052
Iteration	610:	error	is	0.63051
Iteration	620:	error	is	0.63051
Iteration	630:	error	is	0.6305
Iteration	640:	error	is	0.6305
Iteration	650:	error	is	0.63049
Iteration	660:	error	is	0.63049
Iteration	670:	error	is	0.63049
Iteration	680:	error	is	0.63049

Iteration 690: error is 0.63048  
Iteration 700: error is 0.63048  
Iteration 710: error is 0.63048  
Iteration 720: error is 0.63048  
Iteration 730: error is 0.63048  
Iteration 740: error is 0.63047  
Iteration 750: error is 0.63047  
Iteration 760: error is 0.63047  
Iteration 770: error is 0.63047  
Iteration 780: error is 0.63047  
Iteration 790: error is 0.63047  
Iteration 800: error is 0.63047  
Iteration 810: error is 0.63047  
Iteration 820: error is 0.63047  
Iteration 830: error is 0.63047  
Iteration 840: error is 0.63047  
Iteration 850: error is 0.63047  
Iteration 860: error is 0.63047  
Iteration 870: error is 0.63047  
Iteration 880: error is 0.63046  
Iteration 890: error is 0.63046

Iteration 900: error is 0.63046  
Iteration 910: error is 0.63046  
Iteration 920: error is 0.63046  
Iteration 930: error is 0.63046  
Iteration 940: error is 0.63046  
Iteration 950: error is 0.63046  
Iteration 960: error is 0.63046  
Iteration 970: error is 0.63046  
Iteration 980: error is 0.63046  
Iteration 990: error is 0.63046  
Iteration 1000: error is 0.63046  
J\_new = 0.8091  
J\_new = 0.7974  
J\_new = 0.7740  
J\_new = 0.7542  
J\_new = 0.7457  
J\_new = 0.7393  
J\_new = 0.7386  
J\_new = 0.7396  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312  
Iteration 10: error is 38.7344  
Iteration 20: error is 37.0594  
Iteration 30: error is 36.785  
Iteration 40: error is 36.7658  
Iteration 50: error is 37.298  
Iteration 60: error is 37.361  
Iteration 70: error is 37.3699  
Iteration 80: error is 37.5414  
Iteration 90: error is 37.3151  
Iteration 100: error is 2.2833  
Iteration 110: error is 1.1606  
Iteration 120: error is 0.83473  
Iteration 130: error is 0.71549  
Iteration 140: error is 0.69997  
Iteration 150: error is 0.67847  
Iteration 160: error is 0.67277  
Iteration 170: error is 0.66849  
Iteration 180: error is 0.66525  
Iteration 190: error is 0.66267  
Iteration 200: error is 0.66076

Iteration	210:	error	is	0.65906
Iteration	220:	error	is	0.65772
Iteration	230:	error	is	0.65659
Iteration	240:	error	is	0.65557
Iteration	250:	error	is	0.6547
Iteration	260:	error	is	0.65337
Iteration	270:	error	is	0.65185
Iteration	280:	error	is	0.65083
Iteration	290:	error	is	0.64958
Iteration	300:	error	is	0.64864
Iteration	310:	error	is	0.64816
Iteration	320:	error	is	0.6478
Iteration	330:	error	is	0.64752
Iteration	340:	error	is	0.64727
Iteration	350:	error	is	0.64705
Iteration	360:	error	is	0.64688
Iteration	370:	error	is	0.64673
Iteration	380:	error	is	0.64661
Iteration	390:	error	is	0.64651
Iteration	400:	error	is	0.64642
Iteration	410:	error	is	0.64635



Iteration	420:	error	is	0.64628
Iteration	430:	error	is	0.64623
Iteration	440:	error	is	0.64618
Iteration	450:	error	is	0.64614
Iteration	460:	error	is	0.64611
Iteration	470:	error	is	0.64608
Iteration	480:	error	is	0.64605
Iteration	490:	error	is	0.64603
Iteration	500:	error	is	0.64601
Iteration	510:	error	is	0.64599
Iteration	520:	error	is	0.64597
Iteration	530:	error	is	0.64596
Iteration	540:	error	is	0.64595
Iteration	550:	error	is	0.64594
Iteration	560:	error	is	0.64593
Iteration	570:	error	is	0.64592
Iteration	580:	error	is	0.64591
Iteration	590:	error	is	0.64591
Iteration	600:	error	is	0.6459
Iteration	610:	error	is	0.64589
Iteration	620:	error	is	0.64589

Iteration	630:	error	is	0.64589
Iteration	640:	error	is	0.64588
Iteration	650:	error	is	0.64588
Iteration	660:	error	is	0.64588
Iteration	670:	error	is	0.64587
Iteration	680:	error	is	0.64587
Iteration	690:	error	is	0.64587
Iteration	700:	error	is	0.64587
Iteration	710:	error	is	0.64587
Iteration	720:	error	is	0.64586
Iteration	730:	error	is	0.64586
Iteration	740:	error	is	0.64586
Iteration	750:	error	is	0.64586
Iteration	760:	error	is	0.64586
Iteration	770:	error	is	0.64586
Iteration	780:	error	is	0.64586
Iteration	790:	error	is	0.64586
Iteration	800:	error	is	0.64586
Iteration	810:	error	is	0.64586
Iteration	820:	error	is	0.64586
Iteration	830:	error	is	0.64586

```
Iteration 840: error is 0.64586
Iteration 850: error is 0.64585
Iteration 860: error is 0.64585
Iteration 870: error is 0.64585
Iteration 880: error is 0.64585
Iteration 890: error is 0.64585
Iteration 900: error is 0.64585
Iteration 910: error is 0.64585
Iteration 920: error is 0.64585
Iteration 930: error is 0.64585
Iteration 940: error is 0.64585
Iteration 950: error is 0.64585
Iteration 960: error is 0.64585
Iteration 970: error is 0.64585
Iteration 980: error is 0.64585
Iteration 990: error is 0.64585
Iteration 1000: error is 0.64585
J_new = 0.8372
J_new = 0.8192
J_new = 0.8171
J_new = 0.8161
```

```
J_new = 0.8139
J_new = 0.8119
J_new = 0.8083
J_new = 0.8064
J_new = 0.8026
J_new = 0.7908
J_new = 0.7815
J_new = 0.7429
J_new = 0.7420
J_new = 0.7426
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 40.099
Iteration 20: error is 38.1897
Iteration 30: error is 37.1084
Iteration 40: error is 36.9637
Iteration 50: error is 37.5701
Iteration 60: error is 37.3491
Iteration 70: error is 36.7932
Iteration 80: error is 37.4949
```

Iteration	90:	error is	37.5706
Iteration	100:	error is	2.2601
Iteration	110:	error is	1.1809
Iteration	120:	error is	0.79624
Iteration	130:	error is	0.69692
Iteration	140:	error is	0.68058
Iteration	150:	error is	0.67116
Iteration	160:	error is	0.66443
Iteration	170:	error is	0.65965
Iteration	180:	error is	0.65607
Iteration	190:	error is	0.65332
Iteration	200:	error is	0.65116
Iteration	210:	error is	0.64937
Iteration	220:	error is	0.64793
Iteration	230:	error is	0.64677
Iteration	240:	error is	0.64568
Iteration	250:	error is	0.64475
Iteration	260:	error is	0.64335
Iteration	270:	error is	0.64186
Iteration	280:	error is	0.64079
Iteration	290:	error is	0.63993

Iteration	300:	error	is	0.63932
Iteration	310:	error	is	0.63883
Iteration	320:	error	is	0.63843
Iteration	330:	error	is	0.63811
Iteration	340:	error	is	0.63785
Iteration	350:	error	is	0.63764
Iteration	360:	error	is	0.63747
Iteration	370:	error	is	0.63733
Iteration	380:	error	is	0.63722
Iteration	390:	error	is	0.63712
Iteration	400:	error	is	0.63703
Iteration	410:	error	is	0.63696
Iteration	420:	error	is	0.6369
Iteration	430:	error	is	0.63685
Iteration	440:	error	is	0.6368
Iteration	450:	error	is	0.63676
Iteration	460:	error	is	0.63673
Iteration	470:	error	is	0.6367
Iteration	480:	error	is	0.63667
Iteration	490:	error	is	0.63665
Iteration	500:	error	is	0.63663

Iteration	510:	error	is	0.63661
Iteration	520:	error	is	0.6366
Iteration	530:	error	is	0.63659
Iteration	540:	error	is	0.63657
Iteration	550:	error	is	0.63656
Iteration	560:	error	is	0.63655
Iteration	570:	error	is	0.63655
Iteration	580:	error	is	0.63654
Iteration	590:	error	is	0.63653
Iteration	600:	error	is	0.63653
Iteration	610:	error	is	0.63652
Iteration	620:	error	is	0.63652
Iteration	630:	error	is	0.63651
Iteration	640:	error	is	0.63651
Iteration	650:	error	is	0.63651
Iteration	660:	error	is	0.6365
Iteration	670:	error	is	0.6365
Iteration	680:	error	is	0.6365
Iteration	690:	error	is	0.6365
Iteration	700:	error	is	0.63649
Iteration	710:	error	is	0.63649

Iteration 720: error is 0.63649  
Iteration 730: error is 0.63649  
Iteration 740: error is 0.63649  
Iteration 750: error is 0.63649  
Iteration 760: error is 0.63649  
Iteration 770: error is 0.63649  
Iteration 780: error is 0.63648  
Iteration 790: error is 0.63648  
Iteration 800: error is 0.63648  
Iteration 810: error is 0.63648  
Iteration 820: error is 0.63648  
Iteration 830: error is 0.63648  
Iteration 840: error is 0.63648  
Iteration 850: error is 0.63648  
Iteration 860: error is 0.63648  
Iteration 870: error is 0.63648  
Iteration 880: error is 0.63648  
Iteration 890: error is 0.63648  
Iteration 900: error is 0.63648  
Iteration 910: error is 0.63648  
Iteration 920: error is 0.63648



Iteration 930: error is 0.63648  
Iteration 940: error is 0.63648  
Iteration 950: error is 0.63648  
Iteration 960: error is 0.63648  
Iteration 970: error is 0.63648  
Iteration 980: error is 0.63648  
Iteration 990: error is 0.63648  
Iteration 1000: error is 0.63648  
J\_new = 0.8898  
J\_new = 0.8738  
J\_new = 0.8500  
J\_new = 0.8326  
J\_new = 0.8245  
J\_new = 0.8240  
J\_new = 0.8239  
J\_new = 0.8226  
J\_new = 0.8234  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.4051

Iteration 20: error is 37.2066  
Iteration 30: error is 36.7215  
Iteration 40: error is 37.2066  
Iteration 50: error is 37.7491  
Iteration 60: error is 38.0151  
Iteration 70: error is 37.5547  
Iteration 80: error is 37.7486  
Iteration 90: error is 37.75  
Iteration 100: error is 2.4012  
Iteration 110: error is 1.4425  
Iteration 120: error is 0.99148  
Iteration 130: error is 0.84039  
Iteration 140: error is 0.77529  
Iteration 150: error is 0.73863  
Iteration 160: error is 0.67425  
Iteration 170: error is 0.66346  
Iteration 180: error is 0.65892  
Iteration 190: error is 0.65591  
Iteration 200: error is 0.65366  
Iteration 210: error is 0.65185  
Iteration 220: error is 0.65043

Iteration	230:	error	is	0.64914
Iteration	240:	error	is	0.64818
Iteration	250:	error	is	0.64722
Iteration	260:	error	is	0.64583
Iteration	270:	error	is	0.6443
Iteration	280:	error	is	0.64321
Iteration	290:	error	is	0.6424
Iteration	300:	error	is	0.64178
Iteration	310:	error	is	0.64129
Iteration	320:	error	is	0.64091
Iteration	330:	error	is	0.64061
Iteration	340:	error	is	0.64037
Iteration	350:	error	is	0.64017
Iteration	360:	error	is	0.64
Iteration	370:	error	is	0.63986
Iteration	380:	error	is	0.63974
Iteration	390:	error	is	0.63964
Iteration	400:	error	is	0.63956
Iteration	410:	error	is	0.6395
Iteration	420:	error	is	0.63943
Iteration	430:	error	is	0.63938

Iteration	440:	error	is	0.63933
Iteration	450:	error	is	0.63929
Iteration	460:	error	is	0.63926
Iteration	470:	error	is	0.63923
Iteration	480:	error	is	0.6392
Iteration	490:	error	is	0.63918
Iteration	500:	error	is	0.63916
Iteration	510:	error	is	0.63914
Iteration	520:	error	is	0.63912
Iteration	530:	error	is	0.63911
Iteration	540:	error	is	0.63909
Iteration	550:	error	is	0.63908
Iteration	560:	error	is	0.63907
Iteration	570:	error	is	0.63906
Iteration	580:	error	is	0.63906
Iteration	590:	error	is	0.63905
Iteration	600:	error	is	0.63904
Iteration	610:	error	is	0.63904
Iteration	620:	error	is	0.63903
Iteration	630:	error	is	0.63903
Iteration	640:	error	is	0.63902

Iteration	650:	error	is	0.63902
Iteration	660:	error	is	0.63902
Iteration	670:	error	is	0.63901
Iteration	680:	error	is	0.63901
Iteration	690:	error	is	0.63901
Iteration	700:	error	is	0.639
Iteration	710:	error	is	0.639
Iteration	720:	error	is	0.639
Iteration	730:	error	is	0.639
Iteration	740:	error	is	0.639
Iteration	750:	error	is	0.639
Iteration	760:	error	is	0.63899
Iteration	770:	error	is	0.63899
Iteration	780:	error	is	0.63899
Iteration	790:	error	is	0.63899
Iteration	800:	error	is	0.63899
Iteration	810:	error	is	0.63899
Iteration	820:	error	is	0.63899
Iteration	830:	error	is	0.63899
Iteration	840:	error	is	0.63899
Iteration	850:	error	is	0.63899

```
Iteration 860: error is 0.63899
Iteration 870: error is 0.63899
Iteration 880: error is 0.63899
Iteration 890: error is 0.63898
Iteration 900: error is 0.63898
Iteration 910: error is 0.63898
Iteration 920: error is 0.63898
Iteration 930: error is 0.63898
Iteration 940: error is 0.63898
Iteration 950: error is 0.63898
Iteration 960: error is 0.63898
Iteration 970: error is 0.63898
Iteration 980: error is 0.63898
Iteration 990: error is 0.63898
Iteration 1000: error is 0.63898
J_new = 0.8431
J_new = 0.8276
J_new = 0.8180
J_new = 0.8160
J_new = 0.8158
J_new = 0.8134
```

```
J_new = 0.8117
J_new = 0.8079
J_new = 0.8061
J_new = 0.8022
J_new = 0.7905
J_new = 0.7811
J_new = 0.7427
J_new = 0.7416
J_new = 0.7424
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.0418
Iteration 20: error is 37.1782
Iteration 30: error is 36.8972
Iteration 40: error is 37.4132
Iteration 50: error is 37.0167
Iteration 60: error is 37.1655
Iteration 70: error is 37.243
Iteration 80: error is 37.77
Iteration 90: error is 37.6078
```

Iteration	100:	error	is	2.2541
Iteration	110:	error	is	1.4263
Iteration	120:	error	is	0.92412
Iteration	130:	error	is	0.77345
Iteration	140:	error	is	0.72946
Iteration	150:	error	is	0.70332
Iteration	160:	error	is	0.68085
Iteration	170:	error	is	0.67157
Iteration	180:	error	is	0.66806
Iteration	190:	error	is	0.66523
Iteration	200:	error	is	0.66312
Iteration	210:	error	is	0.6613
Iteration	220:	error	is	0.65991
Iteration	230:	error	is	0.6586
Iteration	240:	error	is	0.65757
Iteration	250:	error	is	0.65669
Iteration	260:	error	is	0.65523
Iteration	270:	error	is	0.6537
Iteration	280:	error	is	0.65256
Iteration	290:	error	is	0.6517
Iteration	300:	error	is	0.65106



Iteration	310:	error	is	0.65057
Iteration	320:	error	is	0.65016
Iteration	330:	error	is	0.64984
Iteration	340:	error	is	0.64957
Iteration	350:	error	is	0.64935
Iteration	360:	error	is	0.64917
Iteration	370:	error	is	0.64902
Iteration	380:	error	is	0.64889
Iteration	390:	error	is	0.64878
Iteration	400:	error	is	0.64869
Iteration	410:	error	is	0.6486
Iteration	420:	error	is	0.64853
Iteration	430:	error	is	0.64847
Iteration	440:	error	is	0.64841
Iteration	450:	error	is	0.64836
Iteration	460:	error	is	0.64832
Iteration	470:	error	is	0.64828
Iteration	480:	error	is	0.64825
Iteration	490:	error	is	0.64822
Iteration	500:	error	is	0.64819
Iteration	510:	error	is	0.64816

Iteration	520:	error	is	0.64814
Iteration	530:	error	is	0.64812
Iteration	540:	error	is	0.6481
Iteration	550:	error	is	0.64808
Iteration	560:	error	is	0.64806
Iteration	570:	error	is	0.64805
Iteration	580:	error	is	0.64803
Iteration	590:	error	is	0.64802
Iteration	600:	error	is	0.64801
Iteration	610:	error	is	0.648
Iteration	620:	error	is	0.64799
Iteration	630:	error	is	0.64798
Iteration	640:	error	is	0.64797
Iteration	650:	error	is	0.64796
Iteration	660:	error	is	0.64795
Iteration	670:	error	is	0.64795
Iteration	680:	error	is	0.64794
Iteration	690:	error	is	0.64793
Iteration	700:	error	is	0.64793
Iteration	710:	error	is	0.64792
Iteration	720:	error	is	0.64792

Iteration 730: error is 0.64791  
Iteration 740: error is 0.64791  
Iteration 750: error is 0.6479  
Iteration 760: error is 0.6479  
Iteration 770: error is 0.6479  
Iteration 780: error is 0.64789  
Iteration 790: error is 0.64789  
Iteration 800: error is 0.64789  
Iteration 810: error is 0.64788  
Iteration 820: error is 0.64788  
Iteration 830: error is 0.64788  
Iteration 840: error is 0.64788  
Iteration 850: error is 0.64787  
Iteration 860: error is 0.64787  
Iteration 870: error is 0.64787  
Iteration 880: error is 0.64787  
Iteration 890: error is 0.64786  
Iteration 900: error is 0.64786  
Iteration 910: error is 0.64786  
Iteration 920: error is 0.64786  
Iteration 930: error is 0.64786

Iteration 940: error is 0.64786  
Iteration 950: error is 0.64785  
Iteration 960: error is 0.64785  
Iteration 970: error is 0.64785  
Iteration 980: error is 0.64785  
Iteration 990: error is 0.64785  
Iteration 1000: error is 0.64785  
J\_new = 0.8331  
J\_new = 0.8174  
J\_new = 0.8140  
J\_new = 0.8122  
J\_new = 0.8088  
J\_new = 0.8064  
J\_new = 0.7997  
J\_new = 0.7860  
J\_new = 0.7422  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9118

Iteration 20: error is 36.9312  
Iteration 30: error is 37.2443  
Iteration 40: error is 37.1057  
Iteration 50: error is 37.148  
Iteration 60: error is 37.0857  
Iteration 70: error is 37.5898  
Iteration 80: error is 37.4517  
Iteration 90: error is 37.5601  
Iteration 100: error is 2.1456  
Iteration 110: error is 1.3633  
Iteration 120: error is 0.89527  
Iteration 130: error is 0.76854  
Iteration 140: error is 0.72765  
Iteration 150: error is 0.67636  
Iteration 160: error is 0.66633  
Iteration 170: error is 0.66168  
Iteration 180: error is 0.65837  
Iteration 190: error is 0.65587  
Iteration 200: error is 0.65382  
Iteration 210: error is 0.65211  
Iteration 220: error is 0.65073

Iteration	230:	error	is	0.64959
Iteration	240:	error	is	0.64865
Iteration	250:	error	is	0.64783
Iteration	260:	error	is	0.64655
Iteration	270:	error	is	0.6452
Iteration	280:	error	is	0.6442
Iteration	290:	error	is	0.64345
Iteration	300:	error	is	0.64286
Iteration	310:	error	is	0.64242
Iteration	320:	error	is	0.64208
Iteration	330:	error	is	0.6418
Iteration	340:	error	is	0.64158
Iteration	350:	error	is	0.64141
Iteration	360:	error	is	0.64126
Iteration	370:	error	is	0.64114
Iteration	380:	error	is	0.64103
Iteration	390:	error	is	0.64095
Iteration	400:	error	is	0.64087
Iteration	410:	error	is	0.64081
Iteration	420:	error	is	0.64076
Iteration	430:	error	is	0.64071

Iteration	440:	error	is	0.64067
Iteration	450:	error	is	0.64064
Iteration	460:	error	is	0.6406
Iteration	470:	error	is	0.64056
Iteration	480:	error	is	0.6405
Iteration	490:	error	is	0.64042
Iteration	500:	error	is	0.64034
Iteration	510:	error	is	0.64032
Iteration	520:	error	is	0.6403
Iteration	530:	error	is	0.64029
Iteration	540:	error	is	0.64028
Iteration	550:	error	is	0.64027
Iteration	560:	error	is	0.64026
Iteration	570:	error	is	0.64026
Iteration	580:	error	is	0.64025
Iteration	590:	error	is	0.64024
Iteration	600:	error	is	0.64024
Iteration	610:	error	is	0.64023
Iteration	620:	error	is	0.64023
Iteration	630:	error	is	0.64022
Iteration	640:	error	is	0.64022

Iteration	650:	error	is	0.64022
Iteration	660:	error	is	0.64021
Iteration	670:	error	is	0.64021
Iteration	680:	error	is	0.64021
Iteration	690:	error	is	0.64021
Iteration	700:	error	is	0.64021
Iteration	710:	error	is	0.6402
Iteration	720:	error	is	0.6402
Iteration	730:	error	is	0.6402
Iteration	740:	error	is	0.6402
Iteration	750:	error	is	0.6402
Iteration	760:	error	is	0.6402
Iteration	770:	error	is	0.6402
Iteration	780:	error	is	0.6402
Iteration	790:	error	is	0.6402
Iteration	800:	error	is	0.6402
Iteration	810:	error	is	0.64019
Iteration	820:	error	is	0.64019
Iteration	830:	error	is	0.64019
Iteration	840:	error	is	0.64019
Iteration	850:	error	is	0.64019



Iteration 860: error is 0.64019  
Iteration 870: error is 0.64019  
Iteration 880: error is 0.64019  
Iteration 890: error is 0.64019  
Iteration 900: error is 0.64019  
Iteration 910: error is 0.64019  
Iteration 920: error is 0.64019  
Iteration 930: error is 0.64019  
Iteration 940: error is 0.64019  
Iteration 950: error is 0.64019  
Iteration 960: error is 0.64019  
Iteration 970: error is 0.64019  
Iteration 980: error is 0.64019  
Iteration 990: error is 0.64019  
Iteration 1000: error is 0.64019  
J\_new = 0.8431  
J\_new = 0.8272  
J\_new = 0.8170  
J\_new = 0.8154  
J\_new = 0.8148  
J\_new = 0.8112

J\_new = 0.8090  
J\_new = 0.8056  
J\_new = 0.8034  
J\_new = 0.7900  
J\_new = 0.7823  
J\_new = 0.7422  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.8651  
Iteration 20: error is 37.0572  
Iteration 30: error is 36.9058  
Iteration 40: error is 36.739  
Iteration 50: error is 36.8609  
Iteration 60: error is 36.9843  
Iteration 70: error is 36.4582  
Iteration 80: error is 36.617  
Iteration 90: error is 36.6478  
Iteration 100: error is 2.2117  
Iteration 110: error is 1.2289

Iteration	120:	error	is	0.77205
Iteration	130:	error	is	0.72284
Iteration	140:	error	is	0.70596
Iteration	150:	error	is	0.68494
Iteration	160:	error	is	0.67009
Iteration	170:	error	is	0.66434
Iteration	180:	error	is	0.66011
Iteration	190:	error	is	0.6571
Iteration	200:	error	is	0.65431
Iteration	210:	error	is	0.65234
Iteration	220:	error	is	0.65063
Iteration	230:	error	is	0.64928
Iteration	240:	error	is	0.64812
Iteration	250:	error	is	0.64713
Iteration	260:	error	is	0.64568
Iteration	270:	error	is	0.6439
Iteration	280:	error	is	0.64276
Iteration	290:	error	is	0.64194
Iteration	300:	error	is	0.64131
Iteration	310:	error	is	0.64081
Iteration	320:	error	is	0.64043

Iteration	330:	error	is	0.64012
Iteration	340:	error	is	0.63987
Iteration	350:	error	is	0.63967
Iteration	360:	error	is	0.6395
Iteration	370:	error	is	0.63937
Iteration	380:	error	is	0.63925
Iteration	390:	error	is	0.63916
Iteration	400:	error	is	0.63907
Iteration	410:	error	is	0.639
Iteration	420:	error	is	0.63894
Iteration	430:	error	is	0.63889
Iteration	440:	error	is	0.63884
Iteration	450:	error	is	0.63881
Iteration	460:	error	is	0.63877
Iteration	470:	error	is	0.63874
Iteration	480:	error	is	0.63872
Iteration	490:	error	is	0.6387
Iteration	500:	error	is	0.63868
Iteration	510:	error	is	0.63866
Iteration	520:	error	is	0.63864
Iteration	530:	error	is	0.63863

Iteration	540:	error	is	0.63862
Iteration	550:	error	is	0.63861
Iteration	560:	error	is	0.6386
Iteration	570:	error	is	0.6386
Iteration	580:	error	is	0.63859
Iteration	590:	error	is	0.63858
Iteration	600:	error	is	0.63858
Iteration	610:	error	is	0.63857
Iteration	620:	error	is	0.63857
Iteration	630:	error	is	0.63856
Iteration	640:	error	is	0.63855
Iteration	650:	error	is	0.63852
Iteration	660:	error	is	0.63851
Iteration	670:	error	is	0.63851
Iteration	680:	error	is	0.6385
Iteration	690:	error	is	0.6385
Iteration	700:	error	is	0.6385
Iteration	710:	error	is	0.63849
Iteration	720:	error	is	0.63849
Iteration	730:	error	is	0.63849
Iteration	740:	error	is	0.63849

Iteration	750:	error	is	0.63849
Iteration	760:	error	is	0.63848
Iteration	770:	error	is	0.63848
Iteration	780:	error	is	0.63848
Iteration	790:	error	is	0.63848
Iteration	800:	error	is	0.63848
Iteration	810:	error	is	0.63848
Iteration	820:	error	is	0.63848
Iteration	830:	error	is	0.63848
Iteration	840:	error	is	0.63848
Iteration	850:	error	is	0.63848
Iteration	860:	error	is	0.63848
Iteration	870:	error	is	0.63848
Iteration	880:	error	is	0.63848
Iteration	890:	error	is	0.63847
Iteration	900:	error	is	0.63847
Iteration	910:	error	is	0.63847
Iteration	920:	error	is	0.63847
Iteration	930:	error	is	0.63847
Iteration	940:	error	is	0.63847
Iteration	950:	error	is	0.63847

Iteration 960: error is 0.63847  
Iteration 970: error is 0.63847  
Iteration 980: error is 0.63847  
Iteration 990: error is 0.63847  
Iteration 1000: error is 0.63847  
J\_new = 0.8540  
J\_new = 0.8286  
J\_new = 0.8184  
J\_new = 0.8164  
J\_new = 0.8160  
J\_new = 0.8138  
J\_new = 0.8119  
J\_new = 0.8083  
J\_new = 0.8064  
J\_new = 0.8026  
J\_new = 0.7908  
J\_new = 0.7815  
J\_new = 0.7429  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.5709  
Iteration 20: error is 36.8363  
Iteration 30: error is 36.8701  
Iteration 40: error is 37.0065  
Iteration 50: error is 37.5598  
Iteration 60: error is 37.1529  
Iteration 70: error is 37.3826  
Iteration 80: error is 37.5491  
Iteration 90: error is 37.1911  
Iteration 100: error is 2.1331  
Iteration 110: error is 1.2846  
Iteration 120: error is 0.87898  
Iteration 130: error is 0.7194  
Iteration 140: error is 0.68153  
Iteration 150: error is 0.66611  
Iteration 160: error is 0.65935  
Iteration 170: error is 0.65414  
Iteration 180: error is 0.65006  
Iteration 190: error is 0.64687



Iteration	200:	error	is	0.64458
Iteration	210:	error	is	0.64265
Iteration	220:	error	is	0.64103
Iteration	230:	error	is	0.63966
Iteration	240:	error	is	0.63856
Iteration	250:	error	is	0.63769
Iteration	260:	error	is	0.63626
Iteration	270:	error	is	0.63476
Iteration	280:	error	is	0.63368
Iteration	290:	error	is	0.63291
Iteration	300:	error	is	0.63231
Iteration	310:	error	is	0.63185
Iteration	320:	error	is	0.63148
Iteration	330:	error	is	0.63118
Iteration	340:	error	is	0.63094
Iteration	350:	error	is	0.63075
Iteration	360:	error	is	0.6306
Iteration	370:	error	is	0.63047
Iteration	380:	error	is	0.63036
Iteration	390:	error	is	0.63027
Iteration	400:	error	is	0.63019

Iteration	410:	error	is	0.63013
Iteration	420:	error	is	0.63007
Iteration	430:	error	is	0.63002
Iteration	440:	error	is	0.62998
Iteration	450:	error	is	0.62995
Iteration	460:	error	is	0.62991
Iteration	470:	error	is	0.62989
Iteration	480:	error	is	0.62987
Iteration	490:	error	is	0.62985
Iteration	500:	error	is	0.62983
Iteration	510:	error	is	0.62981
Iteration	520:	error	is	0.6298
Iteration	530:	error	is	0.62979
Iteration	540:	error	is	0.62978
Iteration	550:	error	is	0.62977
Iteration	560:	error	is	0.62976
Iteration	570:	error	is	0.62976
Iteration	580:	error	is	0.62975
Iteration	590:	error	is	0.62974
Iteration	600:	error	is	0.62974
Iteration	610:	error	is	0.62973

Iteration 620: error is 0.62973  
Iteration 630: error is 0.62973  
Iteration 640: error is 0.62972  
Iteration 650: error is 0.62972  
Iteration 660: error is 0.62972  
Iteration 670: error is 0.62972  
Iteration 680: error is 0.62972  
Iteration 690: error is 0.62971  
Iteration 700: error is 0.62971  
Iteration 710: error is 0.62971  
Iteration 720: error is 0.62971  
Iteration 730: error is 0.62971  
Iteration 740: error is 0.62971  
Iteration 750: error is 0.62971  
Iteration 760: error is 0.62971  
Iteration 770: error is 0.62971  
Iteration 780: error is 0.62971  
Iteration 790: error is 0.62971  
Iteration 800: error is 0.6297  
Iteration 810: error is 0.6297  
Iteration 820: error is 0.6297

Iteration 830: error is 0.6297  
Iteration 840: error is 0.6297  
Iteration 850: error is 0.6297  
Iteration 860: error is 0.6297  
Iteration 870: error is 0.6297  
Iteration 880: error is 0.6297  
Iteration 890: error is 0.6297  
Iteration 900: error is 0.6297  
Iteration 910: error is 0.6297  
Iteration 920: error is 0.6297  
Iteration 930: error is 0.6297  
Iteration 940: error is 0.6297  
Iteration 950: error is 0.6297  
Iteration 960: error is 0.6297  
Iteration 970: error is 0.6297  
Iteration 980: error is 0.6297  
Iteration 990: error is 0.6297  
Iteration 1000: error is 0.6297  
J\_new = 0.8079  
J\_new = 0.7957  
J\_new = 0.7773

J\_new = 0.7616  
J\_new = 0.7529  
J\_new = 0.7450  
J\_new = 0.7449  
J\_new = 0.7456  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9924  
Iteration 20: error is 37.3447  
Iteration 30: error is 36.7011  
Iteration 40: error is 36.922  
Iteration 50: error is 37.5165  
Iteration 60: error is 37.3932  
Iteration 70: error is 37.4356  
Iteration 80: error is 37.8052  
Iteration 90: error is 38.1366  
Iteration 100: error is 2.2795  
Iteration 110: error is 1.3452  
Iteration 120: error is 0.89213  
Iteration 130: error is 0.78958

Iteration	140:	error	is	0.71249
Iteration	150:	error	is	0.66963
Iteration	160:	error	is	0.6633
Iteration	170:	error	is	0.6589
Iteration	180:	error	is	0.6557
Iteration	190:	error	is	0.65315
Iteration	200:	error	is	0.65104
Iteration	210:	error	is	0.64933
Iteration	220:	error	is	0.64794
Iteration	230:	error	is	0.64678
Iteration	240:	error	is	0.64577
Iteration	250:	error	is	0.64501
Iteration	260:	error	is	0.64358
Iteration	270:	error	is	0.64214
Iteration	280:	error	is	0.64109
Iteration	290:	error	is	0.64032
Iteration	300:	error	is	0.6397
Iteration	310:	error	is	0.63921
Iteration	320:	error	is	0.63884
Iteration	330:	error	is	0.63854
Iteration	340:	error	is	0.6383

Iteration	350:	error	is	0.63811
Iteration	360:	error	is	0.63794
Iteration	370:	error	is	0.6378
Iteration	380:	error	is	0.63769
Iteration	390:	error	is	0.6376
Iteration	400:	error	is	0.63752
Iteration	410:	error	is	0.63745
Iteration	420:	error	is	0.63739
Iteration	430:	error	is	0.63734
Iteration	440:	error	is	0.6373
Iteration	450:	error	is	0.63726
Iteration	460:	error	is	0.63723
Iteration	470:	error	is	0.6372
Iteration	480:	error	is	0.63717
Iteration	490:	error	is	0.63715
Iteration	500:	error	is	0.63713
Iteration	510:	error	is	0.63711
Iteration	520:	error	is	0.6371
Iteration	530:	error	is	0.63709
Iteration	540:	error	is	0.63708
Iteration	550:	error	is	0.63707

Iteration	560:	error	is	0.63706
Iteration	570:	error	is	0.63705
Iteration	580:	error	is	0.63704
Iteration	590:	error	is	0.63704
Iteration	600:	error	is	0.63703
Iteration	610:	error	is	0.63703
Iteration	620:	error	is	0.63702
Iteration	630:	error	is	0.63702
Iteration	640:	error	is	0.63701
Iteration	650:	error	is	0.63701
Iteration	660:	error	is	0.63701
Iteration	670:	error	is	0.63701
Iteration	680:	error	is	0.637
Iteration	690:	error	is	0.63699
Iteration	700:	error	is	0.63699
Iteration	710:	error	is	0.63698
Iteration	720:	error	is	0.63698
Iteration	730:	error	is	0.63698
Iteration	740:	error	is	0.63698
Iteration	750:	error	is	0.63698
Iteration	760:	error	is	0.63698



Iteration	770:	error	is	0.63698
Iteration	780:	error	is	0.63698
Iteration	790:	error	is	0.63698
Iteration	800:	error	is	0.63697
Iteration	810:	error	is	0.63697
Iteration	820:	error	is	0.63697
Iteration	830:	error	is	0.63697
Iteration	840:	error	is	0.63697
Iteration	850:	error	is	0.63697
Iteration	860:	error	is	0.63697
Iteration	870:	error	is	0.63697
Iteration	880:	error	is	0.63697
Iteration	890:	error	is	0.63697
Iteration	900:	error	is	0.63697
Iteration	910:	error	is	0.63697
Iteration	920:	error	is	0.63697
Iteration	930:	error	is	0.63697
Iteration	940:	error	is	0.63697
Iteration	950:	error	is	0.63697
Iteration	960:	error	is	0.63697
Iteration	970:	error	is	0.63697

Iteration 980: error is 0.63697  
Iteration 990: error is 0.63697  
Iteration 1000: error is 0.63697  
J\_new = 0.8317  
J\_new = 0.8183  
J\_new = 0.8142  
J\_new = 0.8124  
J\_new = 0.8090  
J\_new = 0.8067  
J\_new = 0.7999  
J\_new = 0.7862  
J\_new = 0.7422  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.3667  
Iteration 20: error is 37.3814  
Iteration 30: error is 37.2769  
Iteration 40: error is 37.1683  
Iteration 50: error is 37.5463

Iteration 60: error is 37.7897  
Iteration 70: error is 38.3422  
Iteration 80: error is 38.2968  
Iteration 90: error is 37.9269  
Iteration 100: error is 2.4464  
Iteration 110: error is 1.4068  
Iteration 120: error is 0.99317  
Iteration 130: error is 0.84336  
Iteration 140: error is 0.76466  
Iteration 150: error is 0.68677  
Iteration 160: error is 0.65943  
Iteration 170: error is 0.65528  
Iteration 180: error is 0.65237  
Iteration 190: error is 0.65008  
Iteration 200: error is 0.64824  
Iteration 210: error is 0.64668  
Iteration 220: error is 0.64533  
Iteration 230: error is 0.64416  
Iteration 240: error is 0.64328  
Iteration 250: error is 0.64249  
Iteration 260: error is 0.64122

Iteration	270:	error	is	0.63986
Iteration	280:	error	is	0.63885
Iteration	290:	error	is	0.63808
Iteration	300:	error	is	0.63751
Iteration	310:	error	is	0.63707
Iteration	320:	error	is	0.63671
Iteration	330:	error	is	0.63643
Iteration	340:	error	is	0.6362
Iteration	350:	error	is	0.63602
Iteration	360:	error	is	0.63587
Iteration	370:	error	is	0.63574
Iteration	380:	error	is	0.63564
Iteration	390:	error	is	0.63555
Iteration	400:	error	is	0.63548
Iteration	410:	error	is	0.63541
Iteration	420:	error	is	0.63536
Iteration	430:	error	is	0.63531
Iteration	440:	error	is	0.63527
Iteration	450:	error	is	0.63524
Iteration	460:	error	is	0.63521
Iteration	470:	error	is	0.63518

Iteration	480:	error	is	0.63516
Iteration	490:	error	is	0.63514
Iteration	500:	error	is	0.63512
Iteration	510:	error	is	0.6351
Iteration	520:	error	is	0.63509
Iteration	530:	error	is	0.63508
Iteration	540:	error	is	0.63507
Iteration	550:	error	is	0.63506
Iteration	560:	error	is	0.63505
Iteration	570:	error	is	0.63504
Iteration	580:	error	is	0.63504
Iteration	590:	error	is	0.63503
Iteration	600:	error	is	0.63503
Iteration	610:	error	is	0.63502
Iteration	620:	error	is	0.63502
Iteration	630:	error	is	0.63502
Iteration	640:	error	is	0.63501
Iteration	650:	error	is	0.63501
Iteration	660:	error	is	0.63501
Iteration	670:	error	is	0.635
Iteration	680:	error	is	0.635

Iteration 690: error is 0.635  
Iteration 700: error is 0.635  
Iteration 710: error is 0.635  
Iteration 720: error is 0.635  
Iteration 730: error is 0.635  
Iteration 740: error is 0.63499  
Iteration 750: error is 0.63499  
Iteration 760: error is 0.63499  
Iteration 770: error is 0.63499  
Iteration 780: error is 0.63499  
Iteration 790: error is 0.63499  
Iteration 800: error is 0.63499  
Iteration 810: error is 0.63499  
Iteration 820: error is 0.63499  
Iteration 830: error is 0.63499  
Iteration 840: error is 0.63499  
Iteration 850: error is 0.63499  
Iteration 860: error is 0.63499  
Iteration 870: error is 0.63499  
Iteration 880: error is 0.63499  
Iteration 890: error is 0.63499

Iteration 900: error is 0.63499  
Iteration 910: error is 0.63499  
Iteration 920: error is 0.63499  
Iteration 930: error is 0.63499  
Iteration 940: error is 0.63499  
Iteration 950: error is 0.63499  
Iteration 960: error is 0.63499  
Iteration 970: error is 0.63499  
Iteration 980: error is 0.63499  
Iteration 990: error is 0.63499  
Iteration 1000: error is 0.63499  
J\_new = 0.8445  
J\_new = 0.8288  
J\_new = 0.8180  
J\_new = 0.8162  
J\_new = 0.8159  
J\_new = 0.8135  
J\_new = 0.8116  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022

J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 40.3972  
Iteration 20: error is 37.1465  
Iteration 30: error is 36.9894  
Iteration 40: error is 37.5889  
Iteration 50: error is 37.4417  
Iteration 60: error is 37.6505  
Iteration 70: error is 37.0782  
Iteration 80: error is 37.1591  
Iteration 90: error is 37.7285  
Iteration 100: error is 2.2748  
Iteration 110: error is 1.2969  
Iteration 120: error is 0.90917  
Iteration 130: error is 0.81615



Iteration	140:	error	is	0.75766
Iteration	150:	error	is	0.69252
Iteration	160:	error	is	0.66306
Iteration	170:	error	is	0.65649
Iteration	180:	error	is	0.65297
Iteration	190:	error	is	0.6502
Iteration	200:	error	is	0.64755
Iteration	210:	error	is	0.64565
Iteration	220:	error	is	0.64413
Iteration	230:	error	is	0.64288
Iteration	240:	error	is	0.64178
Iteration	250:	error	is	0.64089
Iteration	260:	error	is	0.63939
Iteration	270:	error	is	0.63778
Iteration	280:	error	is	0.63662
Iteration	290:	error	is	0.63578
Iteration	300:	error	is	0.63513
Iteration	310:	error	is	0.63463
Iteration	320:	error	is	0.63426
Iteration	330:	error	is	0.63395
Iteration	340:	error	is	0.63369

Iteration	350:	error	is	0.63348
Iteration	360:	error	is	0.63331
Iteration	370:	error	is	0.63317
Iteration	380:	error	is	0.63304
Iteration	390:	error	is	0.63294
Iteration	400:	error	is	0.63285
Iteration	410:	error	is	0.63278
Iteration	420:	error	is	0.63271
Iteration	430:	error	is	0.63266
Iteration	440:	error	is	0.63261
Iteration	450:	error	is	0.63257
Iteration	460:	error	is	0.63253
Iteration	470:	error	is	0.6325
Iteration	480:	error	is	0.63247
Iteration	490:	error	is	0.63244
Iteration	500:	error	is	0.63242
Iteration	510:	error	is	0.6324
Iteration	520:	error	is	0.63239
Iteration	530:	error	is	0.63237
Iteration	540:	error	is	0.63236
Iteration	550:	error	is	0.63234

Iteration	560:	error	is	0.63233
Iteration	570:	error	is	0.63232
Iteration	580:	error	is	0.63232
Iteration	590:	error	is	0.63231
Iteration	600:	error	is	0.6323
Iteration	610:	error	is	0.6323
Iteration	620:	error	is	0.63229
Iteration	630:	error	is	0.63229
Iteration	640:	error	is	0.63228
Iteration	650:	error	is	0.63228
Iteration	660:	error	is	0.63227
Iteration	670:	error	is	0.63227
Iteration	680:	error	is	0.63227
Iteration	690:	error	is	0.63227
Iteration	700:	error	is	0.63226
Iteration	710:	error	is	0.63226
Iteration	720:	error	is	0.63226
Iteration	730:	error	is	0.63226
Iteration	740:	error	is	0.63226
Iteration	750:	error	is	0.63226
Iteration	760:	error	is	0.63225

Iteration	770:	error	is	0.63225
Iteration	780:	error	is	0.63225
Iteration	790:	error	is	0.63225
Iteration	800:	error	is	0.63225
Iteration	810:	error	is	0.63225
Iteration	820:	error	is	0.63225
Iteration	830:	error	is	0.63225
Iteration	840:	error	is	0.63225
Iteration	850:	error	is	0.63225
Iteration	860:	error	is	0.63225
Iteration	870:	error	is	0.63225
Iteration	880:	error	is	0.63225
Iteration	890:	error	is	0.63225
Iteration	900:	error	is	0.63225
Iteration	910:	error	is	0.63224
Iteration	920:	error	is	0.63224
Iteration	930:	error	is	0.63224
Iteration	940:	error	is	0.63224
Iteration	950:	error	is	0.63224
Iteration	960:	error	is	0.63224
Iteration	970:	error	is	0.63224

Iteration 980: error is 0.63224  
Iteration 990: error is 0.63224  
Iteration 1000: error is 0.63224  
J\_new = 0.8345  
J\_new = 0.8190  
J\_new = 0.8162  
J\_new = 0.8152  
J\_new = 0.8109  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8031  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.6872  
Iteration 20: error is 37.1874  
Iteration 30: error is 37.2847

Iteration 40: error is 36.592  
Iteration 50: error is 37.0542  
Iteration 60: error is 37.4377  
Iteration 70: error is 37.7104  
Iteration 80: error is 37.4039  
Iteration 90: error is 37.2774  
Iteration 100: error is 2.2873  
Iteration 110: error is 1.026  
Iteration 120: error is 0.74959  
Iteration 130: error is 0.70014  
Iteration 140: error is 0.68382  
Iteration 150: error is 0.67353  
Iteration 160: error is 0.66687  
Iteration 170: error is 0.66187  
Iteration 180: error is 0.65812  
Iteration 190: error is 0.65513  
Iteration 200: error is 0.65282  
Iteration 210: error is 0.65088  
Iteration 220: error is 0.64932  
Iteration 230: error is 0.64803  
Iteration 240: error is 0.64691

Iteration	250:	error	is	0.64592
Iteration	260:	error	is	0.6444
Iteration	270:	error	is	0.64274
Iteration	280:	error	is	0.64154
Iteration	290:	error	is	0.64066
Iteration	300:	error	is	0.64
Iteration	310:	error	is	0.63948
Iteration	320:	error	is	0.63908
Iteration	330:	error	is	0.63875
Iteration	340:	error	is	0.63848
Iteration	350:	error	is	0.63827
Iteration	360:	error	is	0.63809
Iteration	370:	error	is	0.63795
Iteration	380:	error	is	0.63782
Iteration	390:	error	is	0.63771
Iteration	400:	error	is	0.63762
Iteration	410:	error	is	0.63754
Iteration	420:	error	is	0.63748
Iteration	430:	error	is	0.63742
Iteration	440:	error	is	0.63737
Iteration	450:	error	is	0.63733

Iteration	460:	error	is	0.63729
Iteration	470:	error	is	0.63726
Iteration	480:	error	is	0.63723
Iteration	490:	error	is	0.6372
Iteration	500:	error	is	0.63718
Iteration	510:	error	is	0.63716
Iteration	520:	error	is	0.63714
Iteration	530:	error	is	0.63713
Iteration	540:	error	is	0.63711
Iteration	550:	error	is	0.6371
Iteration	560:	error	is	0.63709
Iteration	570:	error	is	0.63708
Iteration	580:	error	is	0.63707
Iteration	590:	error	is	0.63707
Iteration	600:	error	is	0.63706
Iteration	610:	error	is	0.63705
Iteration	620:	error	is	0.63705
Iteration	630:	error	is	0.63704
Iteration	640:	error	is	0.63704
Iteration	650:	error	is	0.63704
Iteration	660:	error	is	0.63703



Iteration	670:	error	is	0.63703
Iteration	680:	error	is	0.63703
Iteration	690:	error	is	0.63702
Iteration	700:	error	is	0.63702
Iteration	710:	error	is	0.63702
Iteration	720:	error	is	0.63702
Iteration	730:	error	is	0.63702
Iteration	740:	error	is	0.63702
Iteration	750:	error	is	0.63701
Iteration	760:	error	is	0.63701
Iteration	770:	error	is	0.63701
Iteration	780:	error	is	0.63701
Iteration	790:	error	is	0.63701
Iteration	800:	error	is	0.63701
Iteration	810:	error	is	0.63701
Iteration	820:	error	is	0.63701
Iteration	830:	error	is	0.63701
Iteration	840:	error	is	0.63701
Iteration	850:	error	is	0.63701
Iteration	860:	error	is	0.63701
Iteration	870:	error	is	0.63701

Iteration 880: error is 0.63701  
Iteration 890: error is 0.63701  
Iteration 900: error is 0.63701  
Iteration 910: error is 0.63701  
Iteration 920: error is 0.63701  
Iteration 930: error is 0.637  
Iteration 940: error is 0.637  
Iteration 950: error is 0.637  
Iteration 960: error is 0.637  
Iteration 970: error is 0.637  
Iteration 980: error is 0.637  
Iteration 990: error is 0.637  
Iteration 1000: error is 0.637  
J\_new = 0.8440  
J\_new = 0.8287  
J\_new = 0.8182  
J\_new = 0.8165  
J\_new = 0.8162  
J\_new = 0.8137  
J\_new = 0.8120  
J\_new = 0.8081

J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.6676  
Iteration 20: error is 37.3248  
Iteration 30: error is 36.9647  
Iteration 40: error is 36.8349  
Iteration 50: error is 36.725  
Iteration 60: error is 36.8717  
Iteration 70: error is 37.0522  
Iteration 80: error is 37.5126  
Iteration 90: error is 37.1538  
Iteration 100: error is 2.3035  
Iteration 110: error is 1.273

Iteration	120:	error	is	0.90283
Iteration	130:	error	is	0.79848
Iteration	140:	error	is	0.74969
Iteration	150:	error	is	0.68612
Iteration	160:	error	is	0.66346
Iteration	170:	error	is	0.6591
Iteration	180:	error	is	0.65585
Iteration	190:	error	is	0.65337
Iteration	200:	error	is	0.65125
Iteration	210:	error	is	0.64953
Iteration	220:	error	is	0.64811
Iteration	230:	error	is	0.64696
Iteration	240:	error	is	0.64587
Iteration	250:	error	is	0.64509
Iteration	260:	error	is	0.64365
Iteration	270:	error	is	0.64223
Iteration	280:	error	is	0.6411
Iteration	290:	error	is	0.64029
Iteration	300:	error	is	0.63965
Iteration	310:	error	is	0.63915
Iteration	320:	error	is	0.63876

Iteration	330:	error	is	0.63842
Iteration	340:	error	is	0.63813
Iteration	350:	error	is	0.63791
Iteration	360:	error	is	0.63775
Iteration	370:	error	is	0.6376
Iteration	380:	error	is	0.63748
Iteration	390:	error	is	0.63737
Iteration	400:	error	is	0.63728
Iteration	410:	error	is	0.6372
Iteration	420:	error	is	0.63714
Iteration	430:	error	is	0.63708
Iteration	440:	error	is	0.63703
Iteration	450:	error	is	0.63699
Iteration	460:	error	is	0.63695
Iteration	470:	error	is	0.63692
Iteration	480:	error	is	0.63689
Iteration	490:	error	is	0.63687
Iteration	500:	error	is	0.63685
Iteration	510:	error	is	0.63683
Iteration	520:	error	is	0.63681
Iteration	530:	error	is	0.6368

Iteration	540:	error	is	0.63678
Iteration	550:	error	is	0.63677
Iteration	560:	error	is	0.63676
Iteration	570:	error	is	0.63675
Iteration	580:	error	is	0.63674
Iteration	590:	error	is	0.63674
Iteration	600:	error	is	0.63673
Iteration	610:	error	is	0.63672
Iteration	620:	error	is	0.63672
Iteration	630:	error	is	0.63671
Iteration	640:	error	is	0.63671
Iteration	650:	error	is	0.63671
Iteration	660:	error	is	0.6367
Iteration	670:	error	is	0.6367
Iteration	680:	error	is	0.6367
Iteration	690:	error	is	0.63669
Iteration	700:	error	is	0.63669
Iteration	710:	error	is	0.63669
Iteration	720:	error	is	0.63669
Iteration	730:	error	is	0.63669
Iteration	740:	error	is	0.63668

Iteration 750: error is 0.63668  
Iteration 760: error is 0.63668  
Iteration 770: error is 0.63668  
Iteration 780: error is 0.63668  
Iteration 790: error is 0.63668  
Iteration 800: error is 0.63668  
Iteration 810: error is 0.63668  
Iteration 820: error is 0.63668  
Iteration 830: error is 0.63668  
Iteration 840: error is 0.63667  
Iteration 850: error is 0.63667  
Iteration 860: error is 0.63667  
Iteration 870: error is 0.63667  
Iteration 880: error is 0.63667  
Iteration 890: error is 0.63667  
Iteration 900: error is 0.63667  
Iteration 910: error is 0.63667  
Iteration 920: error is 0.63667  
Iteration 930: error is 0.63667  
Iteration 940: error is 0.63667  
Iteration 950: error is 0.63667

Iteration 960: error is 0.63667  
Iteration 970: error is 0.63667  
Iteration 980: error is 0.63667  
Iteration 990: error is 0.63667  
Iteration 1000: error is 0.63667  
J\_new = 0.8365  
J\_new = 0.8187  
J\_new = 0.8155  
J\_new = 0.8149  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8032  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.8495



Iteration 20: error is 36.574  
Iteration 30: error is 36.9197  
Iteration 40: error is 37.0171  
Iteration 50: error is 37.0223  
Iteration 60: error is 37.5533  
Iteration 70: error is 37.6533  
Iteration 80: error is 36.9301  
Iteration 90: error is 37.3047  
Iteration 100: error is 2.1108  
Iteration 110: error is 1.1562  
Iteration 120: error is 0.88948  
Iteration 130: error is 0.84051  
Iteration 140: error is 0.78537  
Iteration 150: error is 0.69117  
Iteration 160: error is 0.66519  
Iteration 170: error is 0.65828  
Iteration 180: error is 0.65455  
Iteration 190: error is 0.65158  
Iteration 200: error is 0.64963  
Iteration 210: error is 0.64803  
Iteration 220: error is 0.64672

Iteration	230:	error	is	0.6456
Iteration	240:	error	is	0.64487
Iteration	250:	error	is	0.64386
Iteration	260:	error	is	0.64309
Iteration	270:	error	is	0.63955
Iteration	280:	error	is	0.63826
Iteration	290:	error	is	0.63744
Iteration	300:	error	is	0.63689
Iteration	310:	error	is	0.63641
Iteration	320:	error	is	0.63596
Iteration	330:	error	is	0.63567
Iteration	340:	error	is	0.63544
Iteration	350:	error	is	0.63525
Iteration	360:	error	is	0.63509
Iteration	370:	error	is	0.63495
Iteration	380:	error	is	0.63484
Iteration	390:	error	is	0.63475
Iteration	400:	error	is	0.63467
Iteration	410:	error	is	0.6346
Iteration	420:	error	is	0.63454
Iteration	430:	error	is	0.63449

Iteration	440:	error	is	0.63445
Iteration	450:	error	is	0.63441
Iteration	460:	error	is	0.63438
Iteration	470:	error	is	0.63435
Iteration	480:	error	is	0.63433
Iteration	490:	error	is	0.63431
Iteration	500:	error	is	0.63429
Iteration	510:	error	is	0.63427
Iteration	520:	error	is	0.63426
Iteration	530:	error	is	0.63425
Iteration	540:	error	is	0.63424
Iteration	550:	error	is	0.63423
Iteration	560:	error	is	0.63422
Iteration	570:	error	is	0.63421
Iteration	580:	error	is	0.63421
Iteration	590:	error	is	0.6342
Iteration	600:	error	is	0.6342
Iteration	610:	error	is	0.63419
Iteration	620:	error	is	0.63419
Iteration	630:	error	is	0.63418
Iteration	640:	error	is	0.63418

Iteration	650:	error	is	0.63418
Iteration	660:	error	is	0.63417
Iteration	670:	error	is	0.63417
Iteration	680:	error	is	0.63417
Iteration	690:	error	is	0.63417
Iteration	700:	error	is	0.63417
Iteration	710:	error	is	0.63417
Iteration	720:	error	is	0.63416
Iteration	730:	error	is	0.63416
Iteration	740:	error	is	0.63416
Iteration	750:	error	is	0.63416
Iteration	760:	error	is	0.63416
Iteration	770:	error	is	0.63416
Iteration	780:	error	is	0.63416
Iteration	790:	error	is	0.63416
Iteration	800:	error	is	0.63416
Iteration	810:	error	is	0.63416
Iteration	820:	error	is	0.63416
Iteration	830:	error	is	0.63415
Iteration	840:	error	is	0.63415
Iteration	850:	error	is	0.63415

```
Iteration 860: error is 0.63415
Iteration 870: error is 0.63415
Iteration 880: error is 0.63415
Iteration 890: error is 0.63415
Iteration 900: error is 0.63415
Iteration 910: error is 0.63415
Iteration 920: error is 0.63415
Iteration 930: error is 0.63415
Iteration 940: error is 0.63415
Iteration 950: error is 0.63415
Iteration 960: error is 0.63415
Iteration 970: error is 0.63415
Iteration 980: error is 0.63415
Iteration 990: error is 0.63415
Iteration 1000: error is 0.63415
J_new = 0.8368
J_new = 0.8190
J_new = 0.8159
J_new = 0.8154
J_new = 0.8111
J_new = 0.8092
```

J\_new = 0.8054  
J\_new = 0.8036  
J\_new = 0.7898  
J\_new = 0.7825  
J\_new = 0.7420  
J\_new = 0.7429  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.3008  
Iteration 20: error is 36.7463  
Iteration 30: error is 36.9066  
Iteration 40: error is 37.1682  
Iteration 50: error is 37.344  
Iteration 60: error is 37.6389  
Iteration 70: error is 38.4718  
Iteration 80: error is 37.3005  
Iteration 90: error is 37.1258  
Iteration 100: error is 2.2392  
Iteration 110: error is 1.2075  
Iteration 120: error is 0.91064

Iteration	130:	error	is	0.85397
Iteration	140:	error	is	0.82257
Iteration	150:	error	is	0.70778
Iteration	160:	error	is	0.6997
Iteration	170:	error	is	0.69343
Iteration	180:	error	is	0.69017
Iteration	190:	error	is	0.68753
Iteration	200:	error	is	0.68543
Iteration	210:	error	is	0.68356
Iteration	220:	error	is	0.68223
Iteration	230:	error	is	0.68124
Iteration	240:	error	is	0.68025
Iteration	250:	error	is	0.67938
Iteration	260:	error	is	0.67813
Iteration	270:	error	is	0.67678
Iteration	280:	error	is	0.67582
Iteration	290:	error	is	0.67511
Iteration	300:	error	is	0.67458
Iteration	310:	error	is	0.67417
Iteration	320:	error	is	0.67386
Iteration	330:	error	is	0.67361

Iteration	340:	error	is	0.67342
Iteration	350:	error	is	0.67326
Iteration	360:	error	is	0.67313
Iteration	370:	error	is	0.67302
Iteration	380:	error	is	0.67294
Iteration	390:	error	is	0.67286
Iteration	400:	error	is	0.6728
Iteration	410:	error	is	0.67275
Iteration	420:	error	is	0.67271
Iteration	430:	error	is	0.67268
Iteration	440:	error	is	0.67264
Iteration	450:	error	is	0.67262
Iteration	460:	error	is	0.6726
Iteration	470:	error	is	0.67258
Iteration	480:	error	is	0.67256
Iteration	490:	error	is	0.67255
Iteration	500:	error	is	0.67254
Iteration	510:	error	is	0.67253
Iteration	520:	error	is	0.67252
Iteration	530:	error	is	0.67251
Iteration	540:	error	is	0.6725



Iteration	550:	error	is	0.6725
Iteration	560:	error	is	0.67249
Iteration	570:	error	is	0.67249
Iteration	580:	error	is	0.67248
Iteration	590:	error	is	0.67248
Iteration	600:	error	is	0.67248
Iteration	610:	error	is	0.67247
Iteration	620:	error	is	0.67247
Iteration	630:	error	is	0.67247
Iteration	640:	error	is	0.67247
Iteration	650:	error	is	0.67247
Iteration	660:	error	is	0.67246
Iteration	670:	error	is	0.67246
Iteration	680:	error	is	0.67246
Iteration	690:	error	is	0.67246
Iteration	700:	error	is	0.67246
Iteration	710:	error	is	0.67246
Iteration	720:	error	is	0.67246
Iteration	730:	error	is	0.67246
Iteration	740:	error	is	0.67246
Iteration	750:	error	is	0.67246

Iteration 760: error is 0.67246  
Iteration 770: error is 0.67246  
Iteration 780: error is 0.67246  
Iteration 790: error is 0.67246  
Iteration 800: error is 0.67246  
Iteration 810: error is 0.67246  
Iteration 820: error is 0.67246  
Iteration 830: error is 0.67246  
Iteration 840: error is 0.67246  
Iteration 850: error is 0.67246  
Iteration 860: error is 0.67245  
Iteration 870: error is 0.67245  
Iteration 880: error is 0.67245  
Iteration 890: error is 0.67245  
Iteration 900: error is 0.67245  
Iteration 910: error is 0.67245  
Iteration 920: error is 0.67245  
Iteration 930: error is 0.67245  
Iteration 940: error is 0.67245  
Iteration 950: error is 0.67245  
Iteration 960: error is 0.67245

Iteration 970: error is 0.67245  
Iteration 980: error is 0.67245  
Iteration 990: error is 0.67245  
Iteration 1000: error is 0.67245  
J\_new = 0.8539  
J\_new = 0.8209  
J\_new = 0.8095  
J\_new = 0.8062  
J\_new = 0.8011  
J\_new = 0.7853  
J\_new = 0.7431  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.9095  
Iteration 20: error is 37.3471  
Iteration 30: error is 36.7427  
Iteration 40: error is 36.4494  
Iteration 50: error is 36.7278

Iteration 60: error is 37.2611  
Iteration 70: error is 37.1789  
Iteration 80: error is 37.9062  
Iteration 90: error is 37.4844  
Iteration 100: error is 2.1484  
Iteration 110: error is 1.0857  
Iteration 120: error is 0.77835  
Iteration 130: error is 0.70163  
Iteration 140: error is 0.68192  
Iteration 150: error is 0.67178  
Iteration 160: error is 0.66484  
Iteration 170: error is 0.65996  
Iteration 180: error is 0.65631  
Iteration 190: error is 0.65348  
Iteration 200: error is 0.65127  
Iteration 210: error is 0.64943  
Iteration 220: error is 0.64793  
Iteration 230: error is 0.6467  
Iteration 240: error is 0.64553  
Iteration 250: error is 0.64469  
Iteration 260: error is 0.64327

Iteration	270:	error	is	0.64181
Iteration	280:	error	is	0.6407
Iteration	290:	error	is	0.63985
Iteration	300:	error	is	0.63922
Iteration	310:	error	is	0.63874
Iteration	320:	error	is	0.63836
Iteration	330:	error	is	0.63805
Iteration	340:	error	is	0.6378
Iteration	350:	error	is	0.6376
Iteration	360:	error	is	0.63744
Iteration	370:	error	is	0.6373
Iteration	380:	error	is	0.63719
Iteration	390:	error	is	0.63709
Iteration	400:	error	is	0.63701
Iteration	410:	error	is	0.63694
Iteration	420:	error	is	0.63688
Iteration	430:	error	is	0.63683
Iteration	440:	error	is	0.63679
Iteration	450:	error	is	0.63675
Iteration	460:	error	is	0.63672
Iteration	470:	error	is	0.63669

Iteration	480:	error	is	0.63667
Iteration	490:	error	is	0.63664
Iteration	500:	error	is	0.63662
Iteration	510:	error	is	0.63661
Iteration	520:	error	is	0.63659
Iteration	530:	error	is	0.63658
Iteration	540:	error	is	0.63657
Iteration	550:	error	is	0.63656
Iteration	560:	error	is	0.63655
Iteration	570:	error	is	0.63654
Iteration	580:	error	is	0.63654
Iteration	590:	error	is	0.63653
Iteration	600:	error	is	0.63652
Iteration	610:	error	is	0.63652
Iteration	620:	error	is	0.63652
Iteration	630:	error	is	0.63651
Iteration	640:	error	is	0.63651
Iteration	650:	error	is	0.63651
Iteration	660:	error	is	0.6365
Iteration	670:	error	is	0.6365
Iteration	680:	error	is	0.6365

Iteration	690:	error	is	0.6365
Iteration	700:	error	is	0.63649
Iteration	710:	error	is	0.63649
Iteration	720:	error	is	0.63649
Iteration	730:	error	is	0.63649
Iteration	740:	error	is	0.63649
Iteration	750:	error	is	0.63649
Iteration	760:	error	is	0.63649
Iteration	770:	error	is	0.63649
Iteration	780:	error	is	0.63648
Iteration	790:	error	is	0.63648
Iteration	800:	error	is	0.63646
Iteration	810:	error	is	0.63644
Iteration	820:	error	is	0.63644
Iteration	830:	error	is	0.63644
Iteration	840:	error	is	0.63643
Iteration	850:	error	is	0.63643
Iteration	860:	error	is	0.63643
Iteration	870:	error	is	0.63643
Iteration	880:	error	is	0.63643
Iteration	890:	error	is	0.63643

Iteration 900: error is 0.63643  
Iteration 910: error is 0.63643  
Iteration 920: error is 0.63643  
Iteration 930: error is 0.63643  
Iteration 940: error is 0.63643  
Iteration 950: error is 0.63643  
Iteration 960: error is 0.63643  
Iteration 970: error is 0.63643  
Iteration 980: error is 0.63643  
Iteration 990: error is 0.63643  
Iteration 1000: error is 0.63643  
J\_new = 0.8521  
J\_new = 0.8279  
J\_new = 0.8175  
J\_new = 0.8163  
J\_new = 0.8157  
J\_new = 0.8139  
J\_new = 0.8118  
J\_new = 0.8064  
J\_new = 0.8035  
J\_new = 0.7899



```
J_new = 0.7824
J_new = 0.7422
J_new = 0.7428
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.1836
Iteration 20: error is 36.7143
Iteration 30: error is 36.7616
Iteration 40: error is 37.3901
Iteration 50: error is 36.5329
Iteration 60: error is 37.5878
Iteration 70: error is 37.5452
Iteration 80: error is 37.4385
Iteration 90: error is 38.0082
Iteration 100: error is 2.2245
Iteration 110: error is 1.2215
Iteration 120: error is 0.87111
Iteration 130: error is 0.77832
Iteration 140: error is 0.68966
Iteration 150: error is 0.67407
```

Iteration	160:	error	is	0.66791
Iteration	170:	error	is	0.66325
Iteration	180:	error	is	0.65906
Iteration	190:	error	is	0.65628
Iteration	200:	error	is	0.6542
Iteration	210:	error	is	0.65254
Iteration	220:	error	is	0.65109
Iteration	230:	error	is	0.64995
Iteration	240:	error	is	0.64895
Iteration	250:	error	is	0.64807
Iteration	260:	error	is	0.64673
Iteration	270:	error	is	0.64525
Iteration	280:	error	is	0.64415
Iteration	290:	error	is	0.64337
Iteration	300:	error	is	0.64277
Iteration	310:	error	is	0.64228
Iteration	320:	error	is	0.64194
Iteration	330:	error	is	0.64166
Iteration	340:	error	is	0.64143
Iteration	350:	error	is	0.64122
Iteration	360:	error	is	0.64106

Iteration	370:	error	is	0.64093
Iteration	380:	error	is	0.64081
Iteration	390:	error	is	0.64072
Iteration	400:	error	is	0.64063
Iteration	410:	error	is	0.64056
Iteration	420:	error	is	0.6405
Iteration	430:	error	is	0.64044
Iteration	440:	error	is	0.64039
Iteration	450:	error	is	0.64035
Iteration	460:	error	is	0.64032
Iteration	470:	error	is	0.64029
Iteration	480:	error	is	0.64026
Iteration	490:	error	is	0.64024
Iteration	500:	error	is	0.64022
Iteration	510:	error	is	0.6402
Iteration	520:	error	is	0.64019
Iteration	530:	error	is	0.64018
Iteration	540:	error	is	0.64016
Iteration	550:	error	is	0.64015
Iteration	560:	error	is	0.64014
Iteration	570:	error	is	0.64013

Iteration	580:	error	is	0.64013
Iteration	590:	error	is	0.64012
Iteration	600:	error	is	0.64011
Iteration	610:	error	is	0.64011
Iteration	620:	error	is	0.64011
Iteration	630:	error	is	0.6401
Iteration	640:	error	is	0.6401
Iteration	650:	error	is	0.64009
Iteration	660:	error	is	0.64009
Iteration	670:	error	is	0.64009
Iteration	680:	error	is	0.64009
Iteration	690:	error	is	0.64008
Iteration	700:	error	is	0.64008
Iteration	710:	error	is	0.64008
Iteration	720:	error	is	0.64008
Iteration	730:	error	is	0.64008
Iteration	740:	error	is	0.64008
Iteration	750:	error	is	0.64007
Iteration	760:	error	is	0.64007
Iteration	770:	error	is	0.64007
Iteration	780:	error	is	0.64007

Iteration 790: error is 0.64007  
Iteration 800: error is 0.64007  
Iteration 810: error is 0.64007  
Iteration 820: error is 0.64007  
Iteration 830: error is 0.64007  
Iteration 840: error is 0.64007  
Iteration 850: error is 0.64007  
Iteration 860: error is 0.64007  
Iteration 870: error is 0.64007  
Iteration 880: error is 0.64007  
Iteration 890: error is 0.64007  
Iteration 900: error is 0.64006  
Iteration 910: error is 0.64006  
Iteration 920: error is 0.64006  
Iteration 930: error is 0.64006  
Iteration 940: error is 0.64006  
Iteration 950: error is 0.64006  
Iteration 960: error is 0.64006  
Iteration 970: error is 0.64006  
Iteration 980: error is 0.64006  
Iteration 990: error is 0.64006

Iteration 1000: error is 0.64006  
J\_new = 0.8084  
J\_new = 0.7939  
J\_new = 0.7703  
J\_new = 0.7534  
J\_new = 0.7452  
J\_new = 0.7444  
J\_new = 0.7453  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.1149  
Iteration 20: error is 36.5796  
Iteration 30: error is 36.9025  
Iteration 40: error is 36.9507  
Iteration 50: error is 36.9921  
Iteration 60: error is 37.7863  
Iteration 70: error is 37.7552  
Iteration 80: error is 37.2033  
Iteration 90: error is 37.3691  
Iteration 100: error is 2.2768

Iteration	110:	error	is	1.2973
Iteration	120:	error	is	0.93066
Iteration	130:	error	is	0.84567
Iteration	140:	error	is	0.82242
Iteration	150:	error	is	0.80539
Iteration	160:	error	is	0.78345
Iteration	170:	error	is	0.75476
Iteration	180:	error	is	0.75284
Iteration	190:	error	is	0.66834
Iteration	200:	error	is	0.66121
Iteration	210:	error	is	0.65748
Iteration	220:	error	is	0.65603
Iteration	230:	error	is	0.65481
Iteration	240:	error	is	0.65302
Iteration	250:	error	is	0.65186
Iteration	260:	error	is	0.65034
Iteration	270:	error	is	0.64854
Iteration	280:	error	is	0.64746
Iteration	290:	error	is	0.64666
Iteration	300:	error	is	0.64573
Iteration	310:	error	is	0.64437

Iteration	320:	error	is	0.6437
Iteration	330:	error	is	0.64295
Iteration	340:	error	is	0.64246
Iteration	350:	error	is	0.64221
Iteration	360:	error	is	0.64204
Iteration	370:	error	is	0.64189
Iteration	380:	error	is	0.64175
Iteration	390:	error	is	0.64163
Iteration	400:	error	is	0.64152
Iteration	410:	error	is	0.64143
Iteration	420:	error	is	0.64136
Iteration	430:	error	is	0.64129
Iteration	440:	error	is	0.64123
Iteration	450:	error	is	0.64118
Iteration	460:	error	is	0.64113
Iteration	470:	error	is	0.64109
Iteration	480:	error	is	0.64106
Iteration	490:	error	is	0.64103
Iteration	500:	error	is	0.641
Iteration	510:	error	is	0.64098
Iteration	520:	error	is	0.64096



Iteration	530:	error	is	0.64094
Iteration	540:	error	is	0.64092
Iteration	550:	error	is	0.64091
Iteration	560:	error	is	0.64089
Iteration	570:	error	is	0.64088
Iteration	580:	error	is	0.64087
Iteration	590:	error	is	0.64086
Iteration	600:	error	is	0.64085
Iteration	610:	error	is	0.64085
Iteration	620:	error	is	0.64084
Iteration	630:	error	is	0.64083
Iteration	640:	error	is	0.64083
Iteration	650:	error	is	0.64082
Iteration	660:	error	is	0.64082
Iteration	670:	error	is	0.64081
Iteration	680:	error	is	0.64081
Iteration	690:	error	is	0.6408
Iteration	700:	error	is	0.6408
Iteration	710:	error	is	0.6408
Iteration	720:	error	is	0.64079
Iteration	730:	error	is	0.64079

Iteration 740: error is 0.64079  
Iteration 750: error is 0.64079  
Iteration 760: error is 0.64079  
Iteration 770: error is 0.64078  
Iteration 780: error is 0.64078  
Iteration 790: error is 0.64078  
Iteration 800: error is 0.64078  
Iteration 810: error is 0.64078  
Iteration 820: error is 0.64078  
Iteration 830: error is 0.64078  
Iteration 840: error is 0.64078  
Iteration 850: error is 0.64077  
Iteration 860: error is 0.64077  
Iteration 870: error is 0.64077  
Iteration 880: error is 0.64077  
Iteration 890: error is 0.64077  
Iteration 900: error is 0.64077  
Iteration 910: error is 0.64077  
Iteration 920: error is 0.64077  
Iteration 930: error is 0.64077  
Iteration 940: error is 0.64077

Iteration 950: error is 0.64077  
Iteration 960: error is 0.64077  
Iteration 970: error is 0.64077  
Iteration 980: error is 0.64077  
Iteration 990: error is 0.64077  
Iteration 1000: error is 0.64077  
J\_new = 0.8569  
J\_new = 0.8276  
J\_new = 0.8156  
J\_new = 0.8139  
J\_new = 0.8117  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312  
Iteration 10: error is 39.1255  
Iteration 20: error is 36.8754  
Iteration 30: error is 36.9111  
Iteration 40: error is 36.7055  
Iteration 50: error is 37.4355  
Iteration 60: error is 36.9182  
Iteration 70: error is 37.5657  
Iteration 80: error is 37.2436  
Iteration 90: error is 37.6263  
Iteration 100: error is 2.2173  
Iteration 110: error is 1.3342  
Iteration 120: error is 1.0861  
Iteration 130: error is 0.91113  
Iteration 140: error is 0.81986  
Iteration 150: error is 0.71278  
Iteration 160: error is 0.69181  
Iteration 170: error is 0.65931  
Iteration 180: error is 0.65604  
Iteration 190: error is 0.65396  
Iteration 200: error is 0.65214

Iteration	210:	error	is	0.65068
Iteration	220:	error	is	0.64953
Iteration	230:	error	is	0.6483
Iteration	240:	error	is	0.64738
Iteration	250:	error	is	0.6466
Iteration	260:	error	is	0.64536
Iteration	270:	error	is	0.64395
Iteration	280:	error	is	0.64292
Iteration	290:	error	is	0.6422
Iteration	300:	error	is	0.64162
Iteration	310:	error	is	0.64118
Iteration	320:	error	is	0.64083
Iteration	330:	error	is	0.64055
Iteration	340:	error	is	0.64032
Iteration	350:	error	is	0.64014
Iteration	360:	error	is	0.63998
Iteration	370:	error	is	0.63985
Iteration	380:	error	is	0.63974
Iteration	390:	error	is	0.63965
Iteration	400:	error	is	0.63958
Iteration	410:	error	is	0.6395

Iteration	420:	error	is	0.63944
Iteration	430:	error	is	0.63939
Iteration	440:	error	is	0.63935
Iteration	450:	error	is	0.63931
Iteration	460:	error	is	0.63927
Iteration	470:	error	is	0.63924
Iteration	480:	error	is	0.63922
Iteration	490:	error	is	0.6392
Iteration	500:	error	is	0.63918
Iteration	510:	error	is	0.63916
Iteration	520:	error	is	0.63914
Iteration	530:	error	is	0.63913
Iteration	540:	error	is	0.63912
Iteration	550:	error	is	0.63911
Iteration	560:	error	is	0.6391
Iteration	570:	error	is	0.63909
Iteration	580:	error	is	0.63908
Iteration	590:	error	is	0.63907
Iteration	600:	error	is	0.63907
Iteration	610:	error	is	0.63906
Iteration	620:	error	is	0.63906

Iteration	630:	error	is	0.63906
Iteration	640:	error	is	0.63905
Iteration	650:	error	is	0.63905
Iteration	660:	error	is	0.63905
Iteration	670:	error	is	0.63904
Iteration	680:	error	is	0.63904
Iteration	690:	error	is	0.63904
Iteration	700:	error	is	0.63904
Iteration	710:	error	is	0.63903
Iteration	720:	error	is	0.63903
Iteration	730:	error	is	0.63903
Iteration	740:	error	is	0.63903
Iteration	750:	error	is	0.63903
Iteration	760:	error	is	0.63903
Iteration	770:	error	is	0.63903
Iteration	780:	error	is	0.63903
Iteration	790:	error	is	0.63903
Iteration	800:	error	is	0.63902
Iteration	810:	error	is	0.63902
Iteration	820:	error	is	0.63902
Iteration	830:	error	is	0.63902

Iteration 840: error is 0.63902  
Iteration 850: error is 0.63902  
Iteration 860: error is 0.63902  
Iteration 870: error is 0.63902  
Iteration 880: error is 0.63902  
Iteration 890: error is 0.63902  
Iteration 900: error is 0.63902  
Iteration 910: error is 0.63902  
Iteration 920: error is 0.63902  
Iteration 930: error is 0.63902  
Iteration 940: error is 0.63902  
Iteration 950: error is 0.63902  
Iteration 960: error is 0.63902  
Iteration 970: error is 0.63902  
Iteration 980: error is 0.63902  
Iteration 990: error is 0.63902  
Iteration 1000: error is 0.63902  
J\_new = 0.8702  
J\_new = 0.8384  
J\_new = 0.8213  
J\_new = 0.8097



J\_new = 0.8063  
J\_new = 0.8014  
J\_new = 0.7857  
J\_new = 0.7434  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.7858  
Iteration 20: error is 37.0692  
Iteration 30: error is 37.3712  
Iteration 40: error is 36.7248  
Iteration 50: error is 36.997  
Iteration 60: error is 37.1212  
Iteration 70: error is 37.7949  
Iteration 80: error is 37.3347  
Iteration 90: error is 37.4757  
Iteration 100: error is 2.3065  
Iteration 110: error is 1.2269  
Iteration 120: error is 0.80337

Iteration	130:	error	is	0.74298
Iteration	140:	error	is	0.70122
Iteration	150:	error	is	0.68572
Iteration	160:	error	is	0.67922
Iteration	170:	error	is	0.67439
Iteration	180:	error	is	0.67079
Iteration	190:	error	is	0.66806
Iteration	200:	error	is	0.66585
Iteration	210:	error	is	0.66402
Iteration	220:	error	is	0.66254
Iteration	230:	error	is	0.66128
Iteration	240:	error	is	0.66026
Iteration	250:	error	is	0.65936
Iteration	260:	error	is	0.65794
Iteration	270:	error	is	0.65639
Iteration	280:	error	is	0.65525
Iteration	290:	error	is	0.65444
Iteration	300:	error	is	0.65368
Iteration	310:	error	is	0.65317
Iteration	320:	error	is	0.65278
Iteration	330:	error	is	0.65247

Iteration	340:	error	is	0.6522
Iteration	350:	error	is	0.65199
Iteration	360:	error	is	0.65181
Iteration	370:	error	is	0.65166
Iteration	380:	error	is	0.65153
Iteration	390:	error	is	0.65142
Iteration	400:	error	is	0.65133
Iteration	410:	error	is	0.65125
Iteration	420:	error	is	0.65118
Iteration	430:	error	is	0.65112
Iteration	440:	error	is	0.65107
Iteration	450:	error	is	0.65102
Iteration	460:	error	is	0.65098
Iteration	470:	error	is	0.65095
Iteration	480:	error	is	0.65092
Iteration	490:	error	is	0.65089
Iteration	500:	error	is	0.65087
Iteration	510:	error	is	0.65085
Iteration	520:	error	is	0.65083
Iteration	530:	error	is	0.65081
Iteration	540:	error	is	0.6508

Iteration	550:	error	is	0.65078
Iteration	560:	error	is	0.65077
Iteration	570:	error	is	0.65076
Iteration	580:	error	is	0.65075
Iteration	590:	error	is	0.65074
Iteration	600:	error	is	0.65073
Iteration	610:	error	is	0.65073
Iteration	620:	error	is	0.65072
Iteration	630:	error	is	0.65071
Iteration	640:	error	is	0.65071
Iteration	650:	error	is	0.6507
Iteration	660:	error	is	0.6507
Iteration	670:	error	is	0.6507
Iteration	680:	error	is	0.65069
Iteration	690:	error	is	0.65069
Iteration	700:	error	is	0.65069
Iteration	710:	error	is	0.65068
Iteration	720:	error	is	0.65068
Iteration	730:	error	is	0.65068
Iteration	740:	error	is	0.65068
Iteration	750:	error	is	0.65068

Iteration 760: error is 0.65067  
Iteration 770: error is 0.65067  
Iteration 780: error is 0.65067  
Iteration 790: error is 0.65067  
Iteration 800: error is 0.65067  
Iteration 810: error is 0.65067  
Iteration 820: error is 0.65067  
Iteration 830: error is 0.65067  
Iteration 840: error is 0.65067  
Iteration 850: error is 0.65066  
Iteration 860: error is 0.65066  
Iteration 870: error is 0.65066  
Iteration 880: error is 0.65066  
Iteration 890: error is 0.65066  
Iteration 900: error is 0.65066  
Iteration 910: error is 0.65066  
Iteration 920: error is 0.65066  
Iteration 930: error is 0.65066  
Iteration 940: error is 0.65066  
Iteration 950: error is 0.65066  
Iteration 960: error is 0.65066

Iteration 970: error is 0.65066  
Iteration 980: error is 0.65066  
Iteration 990: error is 0.65066  
Iteration 1000: error is 0.65066  
J\_new = 0.7846  
J\_new = 0.7625  
J\_new = 0.7502  
J\_new = 0.7402  
J\_new = 0.7398  
J\_new = 0.7399  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.7935  
Iteration 20: error is 37.4008  
Iteration 30: error is 36.8741  
Iteration 40: error is 37.4626  
Iteration 50: error is 37.2276  
Iteration 60: error is 36.7086  
Iteration 70: error is 37.9142  
Iteration 80: error is 37.4265

Iteration 90: error is 37.4402  
Iteration 100: error is 2.1693  
Iteration 110: error is 1.3047  
Iteration 120: error is 0.89216  
Iteration 130: error is 0.82463  
Iteration 140: error is 0.76015  
Iteration 150: error is 0.71563  
Iteration 160: error is 0.6762  
Iteration 170: error is 0.67099  
Iteration 180: error is 0.66518  
Iteration 190: error is 0.66226  
Iteration 200: error is 0.65986  
Iteration 210: error is 0.65775  
Iteration 220: error is 0.65613  
Iteration 230: error is 0.65484  
Iteration 240: error is 0.65382  
Iteration 250: error is 0.65298  
Iteration 260: error is 0.6516  
Iteration 270: error is 0.65007  
Iteration 280: error is 0.64899  
Iteration 290: error is 0.64817

Iteration	300:	error	is	0.64753
Iteration	310:	error	is	0.64704
Iteration	320:	error	is	0.64666
Iteration	330:	error	is	0.64635
Iteration	340:	error	is	0.6461
Iteration	350:	error	is	0.6459
Iteration	360:	error	is	0.64573
Iteration	370:	error	is	0.64559
Iteration	380:	error	is	0.64547
Iteration	390:	error	is	0.64537
Iteration	400:	error	is	0.64528
Iteration	410:	error	is	0.64521
Iteration	420:	error	is	0.64514
Iteration	430:	error	is	0.64509
Iteration	440:	error	is	0.64504
Iteration	450:	error	is	0.645
Iteration	460:	error	is	0.64496
Iteration	470:	error	is	0.64493
Iteration	480:	error	is	0.6449
Iteration	490:	error	is	0.64487
Iteration	500:	error	is	0.64485



Iteration	510:	error	is	0.64483
Iteration	520:	error	is	0.64481
Iteration	530:	error	is	0.6448
Iteration	540:	error	is	0.64478
Iteration	550:	error	is	0.64477
Iteration	560:	error	is	0.64476
Iteration	570:	error	is	0.64475
Iteration	580:	error	is	0.64474
Iteration	590:	error	is	0.64473
Iteration	600:	error	is	0.64472
Iteration	610:	error	is	0.64471
Iteration	620:	error	is	0.64471
Iteration	630:	error	is	0.6447
Iteration	640:	error	is	0.6447
Iteration	650:	error	is	0.64469
Iteration	660:	error	is	0.64469
Iteration	670:	error	is	0.64468
Iteration	680:	error	is	0.64468
Iteration	690:	error	is	0.64468
Iteration	700:	error	is	0.64467
Iteration	710:	error	is	0.64467

Iteration 720: error is 0.64467  
Iteration 730: error is 0.64467  
Iteration 740: error is 0.64466  
Iteration 750: error is 0.64466  
Iteration 760: error is 0.64466  
Iteration 770: error is 0.64466  
Iteration 780: error is 0.64466  
Iteration 790: error is 0.64466  
Iteration 800: error is 0.64465  
Iteration 810: error is 0.64465  
Iteration 820: error is 0.64465  
Iteration 830: error is 0.64465  
Iteration 840: error is 0.64465  
Iteration 850: error is 0.64465  
Iteration 860: error is 0.64465  
Iteration 870: error is 0.64465  
Iteration 880: error is 0.64465  
Iteration 890: error is 0.64465  
Iteration 900: error is 0.64465  
Iteration 910: error is 0.64464  
Iteration 920: error is 0.64464

Iteration 930: error is 0.64464  
Iteration 940: error is 0.64464  
Iteration 950: error is 0.64464  
Iteration 960: error is 0.64464  
Iteration 970: error is 0.64464  
Iteration 980: error is 0.64464  
Iteration 990: error is 0.64464  
Iteration 1000: error is 0.64464  
J\_new = 0.8379  
J\_new = 0.8221  
J\_new = 0.8148  
J\_new = 0.8116  
J\_new = 0.8099  
J\_new = 0.8054  
J\_new = 0.8006  
J\_new = 0.7851  
J\_new = 0.7431  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312  
Iteration 10: error is 39.6753  
Iteration 20: error is 37.8451  
Iteration 30: error is 37.163  
Iteration 40: error is 37.615  
Iteration 50: error is 37.9545  
Iteration 60: error is 37.4721  
Iteration 70: error is 37.3621  
Iteration 80: error is 37.7004  
Iteration 90: error is 37.5517  
Iteration 100: error is 2.2443  
Iteration 110: error is 1.1409  
Iteration 120: error is 0.76407  
Iteration 130: error is 0.69906  
Iteration 140: error is 0.67741  
Iteration 150: error is 0.66692  
Iteration 160: error is 0.65979  
Iteration 170: error is 0.65471  
Iteration 180: error is 0.65074  
Iteration 190: error is 0.64774  
Iteration 200: error is 0.64534

Iteration	210:	error	is	0.64338
Iteration	220:	error	is	0.64178
Iteration	230:	error	is	0.6404
Iteration	240:	error	is	0.63923
Iteration	250:	error	is	0.63823
Iteration	260:	error	is	0.6367
Iteration	270:	error	is	0.63508
Iteration	280:	error	is	0.63387
Iteration	290:	error	is	0.63299
Iteration	300:	error	is	0.6323
Iteration	310:	error	is	0.63178
Iteration	320:	error	is	0.63138
Iteration	330:	error	is	0.63105
Iteration	340:	error	is	0.63079
Iteration	350:	error	is	0.63057
Iteration	360:	error	is	0.6304
Iteration	370:	error	is	0.63026
Iteration	380:	error	is	0.63014
Iteration	390:	error	is	0.63004
Iteration	400:	error	is	0.62995
Iteration	410:	error	is	0.62988

Iteration	420:	error	is	0.62982
Iteration	430:	error	is	0.62976
Iteration	440:	error	is	0.62971
Iteration	450:	error	is	0.62967
Iteration	460:	error	is	0.62964
Iteration	470:	error	is	0.62961
Iteration	480:	error	is	0.62958
Iteration	490:	error	is	0.62956
Iteration	500:	error	is	0.62954
Iteration	510:	error	is	0.62952
Iteration	520:	error	is	0.6295
Iteration	530:	error	is	0.62949
Iteration	540:	error	is	0.62948
Iteration	550:	error	is	0.62947
Iteration	560:	error	is	0.62946
Iteration	570:	error	is	0.62945
Iteration	580:	error	is	0.62944
Iteration	590:	error	is	0.62943
Iteration	600:	error	is	0.62943
Iteration	610:	error	is	0.62942
Iteration	620:	error	is	0.62942

Iteration 630: error is 0.62941  
Iteration 640: error is 0.62941  
Iteration 650: error is 0.6294  
Iteration 660: error is 0.6294  
Iteration 670: error is 0.6294  
Iteration 680: error is 0.6294  
Iteration 690: error is 0.62939  
Iteration 700: error is 0.62939  
Iteration 710: error is 0.62939  
Iteration 720: error is 0.62939  
Iteration 730: error is 0.62939  
Iteration 740: error is 0.62939  
Iteration 750: error is 0.62938  
Iteration 760: error is 0.62938  
Iteration 770: error is 0.62938  
Iteration 780: error is 0.62938  
Iteration 790: error is 0.62938  
Iteration 800: error is 0.62938  
Iteration 810: error is 0.62938  
Iteration 820: error is 0.62938  
Iteration 830: error is 0.62938

Iteration 840: error is 0.62938  
Iteration 850: error is 0.62938  
Iteration 860: error is 0.62938  
Iteration 870: error is 0.62938  
Iteration 880: error is 0.62938  
Iteration 890: error is 0.62938  
Iteration 900: error is 0.62938  
Iteration 910: error is 0.62938  
Iteration 920: error is 0.62938  
Iteration 930: error is 0.62938  
Iteration 940: error is 0.62938  
Iteration 950: error is 0.62938  
Iteration 960: error is 0.62938  
Iteration 970: error is 0.62938  
Iteration 980: error is 0.62938  
Iteration 990: error is 0.62938  
Iteration 1000: error is 0.62938  
J\_new = 0.8430  
J\_new = 0.8274  
J\_new = 0.8175  
J\_new = 0.8156



```
J_new = 0.8148
J_new = 0.8111
J_new = 0.8072
J_new = 0.8027
J_new = 0.7907
J_new = 0.7816
J_new = 0.7430
J_new = 0.7421
J_new = 0.7426
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.5278
Iteration 20: error is 37.3151
Iteration 30: error is 36.7133
Iteration 40: error is 37.1292
Iteration 50: error is 37.4111
Iteration 60: error is 37.475
Iteration 70: error is 36.4882
Iteration 80: error is 37.2606
Iteration 90: error is 37.743
```

Iteration	100:	error	is	2.3511
Iteration	110:	error	is	1.2702
Iteration	120:	error	is	0.88865
Iteration	130:	error	is	0.83442
Iteration	140:	error	is	0.8077
Iteration	150:	error	is	0.787
Iteration	160:	error	is	0.74196
Iteration	170:	error	is	0.66441
Iteration	180:	error	is	0.65943
Iteration	190:	error	is	0.6572
Iteration	200:	error	is	0.6554
Iteration	210:	error	is	0.65384
Iteration	220:	error	is	0.65262
Iteration	230:	error	is	0.65154
Iteration	240:	error	is	0.65057
Iteration	250:	error	is	0.64811
Iteration	260:	error	is	0.64679
Iteration	270:	error	is	0.64545
Iteration	280:	error	is	0.64443
Iteration	290:	error	is	0.64364
Iteration	300:	error	is	0.64301

Iteration	310:	error	is	0.64252
Iteration	320:	error	is	0.64214
Iteration	330:	error	is	0.64184
Iteration	340:	error	is	0.6416
Iteration	350:	error	is	0.6414
Iteration	360:	error	is	0.64124
Iteration	370:	error	is	0.6411
Iteration	380:	error	is	0.64099
Iteration	390:	error	is	0.64089
Iteration	400:	error	is	0.64081
Iteration	410:	error	is	0.64075
Iteration	420:	error	is	0.64069
Iteration	430:	error	is	0.64064
Iteration	440:	error	is	0.64059
Iteration	450:	error	is	0.64056
Iteration	460:	error	is	0.64052
Iteration	470:	error	is	0.6405
Iteration	480:	error	is	0.64047
Iteration	490:	error	is	0.64045
Iteration	500:	error	is	0.64043
Iteration	510:	error	is	0.64042

Iteration	520:	error	is	0.6404
Iteration	530:	error	is	0.64039
Iteration	540:	error	is	0.64038
Iteration	550:	error	is	0.64037
Iteration	560:	error	is	0.64036
Iteration	570:	error	is	0.64036
Iteration	580:	error	is	0.64035
Iteration	590:	error	is	0.64034
Iteration	600:	error	is	0.64034
Iteration	610:	error	is	0.64033
Iteration	620:	error	is	0.64033
Iteration	630:	error	is	0.64033
Iteration	640:	error	is	0.64032
Iteration	650:	error	is	0.64032
Iteration	660:	error	is	0.64032
Iteration	670:	error	is	0.64032
Iteration	680:	error	is	0.64031
Iteration	690:	error	is	0.64031
Iteration	700:	error	is	0.64031
Iteration	710:	error	is	0.64031
Iteration	720:	error	is	0.64031

Iteration 730: error is 0.64031  
Iteration 740: error is 0.64031  
Iteration 750: error is 0.6403  
Iteration 760: error is 0.6403  
Iteration 770: error is 0.6403  
Iteration 780: error is 0.6403  
Iteration 790: error is 0.6403  
Iteration 800: error is 0.6403  
Iteration 810: error is 0.6403  
Iteration 820: error is 0.6403  
Iteration 830: error is 0.6403  
Iteration 840: error is 0.6403  
Iteration 850: error is 0.6403  
Iteration 860: error is 0.6403  
Iteration 870: error is 0.6403  
Iteration 880: error is 0.6403  
Iteration 890: error is 0.6403  
Iteration 900: error is 0.6403  
Iteration 910: error is 0.6403  
Iteration 920: error is 0.6403  
Iteration 930: error is 0.6403

Iteration 940: error is 0.6403  
Iteration 950: error is 0.6403  
Iteration 960: error is 0.6403  
Iteration 970: error is 0.6403  
Iteration 980: error is 0.6403  
Iteration 990: error is 0.6403  
Iteration 1000: error is 0.6403  
J\_new = 0.8029  
J\_new = 0.7870  
J\_new = 0.7627  
J\_new = 0.7533  
J\_new = 0.7451  
J\_new = 0.7449  
J\_new = 0.7456  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.6267  
Iteration 20: error is 36.9948  
Iteration 30: error is 36.7511  
Iteration 40: error is 36.4511

Iteration 50: error is 36.7186  
Iteration 60: error is 37.2168  
Iteration 70: error is 36.8085  
Iteration 80: error is 37.0277  
Iteration 90: error is 36.8353  
Iteration 100: error is 2.0442  
Iteration 110: error is 1.1611  
Iteration 120: error is 0.83485  
Iteration 130: error is 0.75754  
Iteration 140: error is 0.71243  
Iteration 150: error is 0.67613  
Iteration 160: error is 0.66948  
Iteration 170: error is 0.66472  
Iteration 180: error is 0.66119  
Iteration 190: error is 0.65869  
Iteration 200: error is 0.65644  
Iteration 210: error is 0.65421  
Iteration 220: error is 0.65039  
Iteration 230: error is 0.64804  
Iteration 240: error is 0.64701  
Iteration 250: error is 0.6461

Iteration	260:	error	is	0.64475
Iteration	270:	error	is	0.64319
Iteration	280:	error	is	0.6421
Iteration	290:	error	is	0.64133
Iteration	300:	error	is	0.64071
Iteration	310:	error	is	0.64025
Iteration	320:	error	is	0.6399
Iteration	330:	error	is	0.63961
Iteration	340:	error	is	0.63937
Iteration	350:	error	is	0.63918
Iteration	360:	error	is	0.63902
Iteration	370:	error	is	0.63889
Iteration	380:	error	is	0.63878
Iteration	390:	error	is	0.63868
Iteration	400:	error	is	0.6386
Iteration	410:	error	is	0.63853
Iteration	420:	error	is	0.63847
Iteration	430:	error	is	0.63842
Iteration	440:	error	is	0.63837
Iteration	450:	error	is	0.63833
Iteration	460:	error	is	0.6383



Iteration	470:	error	is	0.63827
Iteration	480:	error	is	0.63824
Iteration	490:	error	is	0.63822
Iteration	500:	error	is	0.6382
Iteration	510:	error	is	0.63818
Iteration	520:	error	is	0.63817
Iteration	530:	error	is	0.63815
Iteration	540:	error	is	0.63814
Iteration	550:	error	is	0.63813
Iteration	560:	error	is	0.63812
Iteration	570:	error	is	0.63811
Iteration	580:	error	is	0.63811
Iteration	590:	error	is	0.6381
Iteration	600:	error	is	0.63809
Iteration	610:	error	is	0.63809
Iteration	620:	error	is	0.63808
Iteration	630:	error	is	0.63808
Iteration	640:	error	is	0.63808
Iteration	650:	error	is	0.63807
Iteration	660:	error	is	0.63807
Iteration	670:	error	is	0.63807

Iteration	680:	error	is	0.63807
Iteration	690:	error	is	0.63806
Iteration	700:	error	is	0.63806
Iteration	710:	error	is	0.63806
Iteration	720:	error	is	0.63806
Iteration	730:	error	is	0.63806
Iteration	740:	error	is	0.63806
Iteration	750:	error	is	0.63806
Iteration	760:	error	is	0.63805
Iteration	770:	error	is	0.63805
Iteration	780:	error	is	0.63805
Iteration	790:	error	is	0.63805
Iteration	800:	error	is	0.63805
Iteration	810:	error	is	0.63805
Iteration	820:	error	is	0.63805
Iteration	830:	error	is	0.63805
Iteration	840:	error	is	0.63805
Iteration	850:	error	is	0.63805
Iteration	860:	error	is	0.63805
Iteration	870:	error	is	0.63805
Iteration	880:	error	is	0.63805

Iteration 890: error is 0.63805  
Iteration 900: error is 0.63805  
Iteration 910: error is 0.63805  
Iteration 920: error is 0.63805  
Iteration 930: error is 0.63805  
Iteration 940: error is 0.63805  
Iteration 950: error is 0.63805  
Iteration 960: error is 0.63805  
Iteration 970: error is 0.63805  
Iteration 980: error is 0.63805  
Iteration 990: error is 0.63805  
Iteration 1000: error is 0.63805  
J\_new = 0.8316  
J\_new = 0.8183  
J\_new = 0.8146  
J\_new = 0.8128  
J\_new = 0.8093  
J\_new = 0.8071  
J\_new = 0.8002  
J\_new = 0.7867  
J\_new = 0.7424

J\_new = 0.7429

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.757

Iteration 20: error is 37.0407

Iteration 30: error is 36.6834

Iteration 40: error is 36.9887

Iteration 50: error is 36.6378

Iteration 60: error is 37.1881

Iteration 70: error is 37.0885

Iteration 80: error is 37.1724

Iteration 90: error is 37.6786

Iteration 100: error is 2.1686

Iteration 110: error is 1.1918

Iteration 120: error is 0.74362

Iteration 130: error is 0.69691

Iteration 140: error is 0.68306

Iteration 150: error is 0.6733

Iteration 160: error is 0.66679

Iteration 170: error is 0.66206

Iteration	180:	error	is	0.65856
Iteration	190:	error	is	0.65587
Iteration	200:	error	is	0.65369
Iteration	210:	error	is	0.65202
Iteration	220:	error	is	0.65056
Iteration	230:	error	is	0.64939
Iteration	240:	error	is	0.64836
Iteration	250:	error	is	0.6475
Iteration	260:	error	is	0.64616
Iteration	270:	error	is	0.6447
Iteration	280:	error	is	0.64361
Iteration	290:	error	is	0.64278
Iteration	300:	error	is	0.64215
Iteration	310:	error	is	0.64164
Iteration	320:	error	is	0.64128
Iteration	330:	error	is	0.64101
Iteration	340:	error	is	0.64077
Iteration	350:	error	is	0.64058
Iteration	360:	error	is	0.64043
Iteration	370:	error	is	0.64029
Iteration	380:	error	is	0.64018

Iteration	390:	error	is	0.64009
Iteration	400:	error	is	0.64002
Iteration	410:	error	is	0.63995
Iteration	420:	error	is	0.6399
Iteration	430:	error	is	0.63985
Iteration	440:	error	is	0.63981
Iteration	450:	error	is	0.63977
Iteration	460:	error	is	0.63974
Iteration	470:	error	is	0.63972
Iteration	480:	error	is	0.63969
Iteration	490:	error	is	0.63967
Iteration	500:	error	is	0.63966
Iteration	510:	error	is	0.63964
Iteration	520:	error	is	0.63963
Iteration	530:	error	is	0.63961
Iteration	540:	error	is	0.6396
Iteration	550:	error	is	0.63959
Iteration	560:	error	is	0.63959
Iteration	570:	error	is	0.63958
Iteration	580:	error	is	0.63957
Iteration	590:	error	is	0.63957

Iteration	600:	error	is	0.63956
Iteration	610:	error	is	0.63956
Iteration	620:	error	is	0.63955
Iteration	630:	error	is	0.63955
Iteration	640:	error	is	0.63955
Iteration	650:	error	is	0.63954
Iteration	660:	error	is	0.63954
Iteration	670:	error	is	0.63954
Iteration	680:	error	is	0.63954
Iteration	690:	error	is	0.63954
Iteration	700:	error	is	0.63953
Iteration	710:	error	is	0.63953
Iteration	720:	error	is	0.63953
Iteration	730:	error	is	0.63953
Iteration	740:	error	is	0.63953
Iteration	750:	error	is	0.63953
Iteration	760:	error	is	0.63953
Iteration	770:	error	is	0.63953
Iteration	780:	error	is	0.63953
Iteration	790:	error	is	0.63953
Iteration	800:	error	is	0.63953

Iteration 810: error is 0.63953  
Iteration 820: error is 0.63952  
Iteration 830: error is 0.63952  
Iteration 840: error is 0.63952  
Iteration 850: error is 0.63952  
Iteration 860: error is 0.63952  
Iteration 870: error is 0.63952  
Iteration 880: error is 0.63952  
Iteration 890: error is 0.63952  
Iteration 900: error is 0.63952  
Iteration 910: error is 0.63952  
Iteration 920: error is 0.63952  
Iteration 930: error is 0.63952  
Iteration 940: error is 0.63952  
Iteration 950: error is 0.63952  
Iteration 960: error is 0.63952  
Iteration 970: error is 0.63952  
Iteration 980: error is 0.63952  
Iteration 990: error is 0.63952  
Iteration 1000: error is 0.63952  
J\_new = 0.8340



```
J_new = 0.8203
J_new = 0.8196
J_new = 0.8197
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.327
Iteration 20: error is 36.8996
Iteration 30: error is 36.0205
Iteration 40: error is 36.7813
Iteration 50: error is 37.0647
Iteration 60: error is 37.3215
Iteration 70: error is 37.4796
Iteration 80: error is 37.0914
Iteration 90: error is 37.6374
Iteration 100: error is 2.2418
Iteration 110: error is 1.1877
Iteration 120: error is 0.82275
Iteration 130: error is 0.69981
Iteration 140: error is 0.68213
Iteration 150: error is 0.6706
```

Iteration	160:	error	is	0.66406
Iteration	170:	error	is	0.6594
Iteration	180:	error	is	0.65591
Iteration	190:	error	is	0.6532
Iteration	200:	error	is	0.65107
Iteration	210:	error	is	0.64933
Iteration	220:	error	is	0.6479
Iteration	230:	error	is	0.64678
Iteration	240:	error	is	0.64574
Iteration	250:	error	is	0.6448
Iteration	260:	error	is	0.64338
Iteration	270:	error	is	0.64188
Iteration	280:	error	is	0.64079
Iteration	290:	error	is	0.64001
Iteration	300:	error	is	0.63941
Iteration	310:	error	is	0.63894
Iteration	320:	error	is	0.63858
Iteration	330:	error	is	0.63829
Iteration	340:	error	is	0.63805
Iteration	350:	error	is	0.63786
Iteration	360:	error	is	0.6377

Iteration	370:	error	is	0.63756
Iteration	380:	error	is	0.63745
Iteration	390:	error	is	0.63735
Iteration	400:	error	is	0.63722
Iteration	410:	error	is	0.63714
Iteration	420:	error	is	0.63708
Iteration	430:	error	is	0.63703
Iteration	440:	error	is	0.63699
Iteration	450:	error	is	0.63695
Iteration	460:	error	is	0.63692
Iteration	470:	error	is	0.63689
Iteration	480:	error	is	0.63686
Iteration	490:	error	is	0.63684
Iteration	500:	error	is	0.63682
Iteration	510:	error	is	0.63681
Iteration	520:	error	is	0.63679
Iteration	530:	error	is	0.63678
Iteration	540:	error	is	0.63676
Iteration	550:	error	is	0.63675
Iteration	560:	error	is	0.63674
Iteration	570:	error	is	0.63674

Iteration	580:	error	is	0.63673
Iteration	590:	error	is	0.63672
Iteration	600:	error	is	0.63671
Iteration	610:	error	is	0.63671
Iteration	620:	error	is	0.6367
Iteration	630:	error	is	0.6367
Iteration	640:	error	is	0.6367
Iteration	650:	error	is	0.63669
Iteration	660:	error	is	0.63669
Iteration	670:	error	is	0.63669
Iteration	680:	error	is	0.63669
Iteration	690:	error	is	0.63668
Iteration	700:	error	is	0.63668
Iteration	710:	error	is	0.63668
Iteration	720:	error	is	0.63668
Iteration	730:	error	is	0.63668
Iteration	740:	error	is	0.63668
Iteration	750:	error	is	0.63667
Iteration	760:	error	is	0.63667
Iteration	770:	error	is	0.63667
Iteration	780:	error	is	0.63667

Iteration 790: error is 0.63667  
Iteration 800: error is 0.63667  
Iteration 810: error is 0.63667  
Iteration 820: error is 0.63667  
Iteration 830: error is 0.63667  
Iteration 840: error is 0.63667  
Iteration 850: error is 0.63667  
Iteration 860: error is 0.63667  
Iteration 870: error is 0.63667  
Iteration 880: error is 0.63667  
Iteration 890: error is 0.63667  
Iteration 900: error is 0.63667  
Iteration 910: error is 0.63667  
Iteration 920: error is 0.63667  
Iteration 930: error is 0.63667  
Iteration 940: error is 0.63667  
Iteration 950: error is 0.63666  
Iteration 960: error is 0.63666  
Iteration 970: error is 0.63666  
Iteration 980: error is 0.63666  
Iteration 990: error is 0.63666

Iteration 1000: error is 0.63666

J\_new = 0.8657

J\_new = 0.8365

J\_new = 0.8241

J\_new = 0.8155

J\_new = 0.8137

J\_new = 0.8120

J\_new = 0.8081

J\_new = 0.8065

J\_new = 0.8025

J\_new = 0.7909

J\_new = 0.7814

J\_new = 0.7431

J\_new = 0.7419

J\_new = 0.7428

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.4078

Iteration 20: error is 36.1006

Iteration 30: error is 36.7665

Iteration 40: error is 37.292  
Iteration 50: error is 37.058  
Iteration 60: error is 36.6643  
Iteration 70: error is 36.9304  
Iteration 80: error is 37.1242  
Iteration 90: error is 37.178  
Iteration 100: error is 2.2507  
Iteration 110: error is 1.1595  
Iteration 120: error is 0.88876  
Iteration 130: error is 0.72211  
Iteration 140: error is 0.69016  
Iteration 150: error is 0.67849  
Iteration 160: error is 0.67173  
Iteration 170: error is 0.66698  
Iteration 180: error is 0.66334  
Iteration 190: error is 0.6605  
Iteration 200: error is 0.65857  
Iteration 210: error is 0.65662  
Iteration 220: error is 0.65534  
Iteration 230: error is 0.65387  
Iteration 240: error is 0.6528

Iteration	250:	error	is	0.65186
Iteration	260:	error	is	0.65049
Iteration	270:	error	is	0.64889
Iteration	280:	error	is	0.64776
Iteration	290:	error	is	0.64694
Iteration	300:	error	is	0.64619
Iteration	310:	error	is	0.64369
Iteration	320:	error	is	0.64234
Iteration	330:	error	is	0.64164
Iteration	340:	error	is	0.64129
Iteration	350:	error	is	0.64108
Iteration	360:	error	is	0.6409
Iteration	370:	error	is	0.64075
Iteration	380:	error	is	0.64062
Iteration	390:	error	is	0.64052
Iteration	400:	error	is	0.64043
Iteration	410:	error	is	0.64035
Iteration	420:	error	is	0.64028
Iteration	430:	error	is	0.64022
Iteration	440:	error	is	0.64018
Iteration	450:	error	is	0.64013



Iteration	460:	error	is	0.6401
Iteration	470:	error	is	0.64007
Iteration	480:	error	is	0.64004
Iteration	490:	error	is	0.64001
Iteration	500:	error	is	0.63999
Iteration	510:	error	is	0.63997
Iteration	520:	error	is	0.63995
Iteration	530:	error	is	0.63994
Iteration	540:	error	is	0.63992
Iteration	550:	error	is	0.63991
Iteration	560:	error	is	0.63985
Iteration	570:	error	is	0.63983
Iteration	580:	error	is	0.63982
Iteration	590:	error	is	0.63981
Iteration	600:	error	is	0.6398
Iteration	610:	error	is	0.6398
Iteration	620:	error	is	0.63979
Iteration	630:	error	is	0.63978
Iteration	640:	error	is	0.63978
Iteration	650:	error	is	0.63977
Iteration	660:	error	is	0.63977

Iteration	670:	error	is	0.63977
Iteration	680:	error	is	0.63976
Iteration	690:	error	is	0.63976
Iteration	700:	error	is	0.63976
Iteration	710:	error	is	0.63975
Iteration	720:	error	is	0.63974
Iteration	730:	error	is	0.63974
Iteration	740:	error	is	0.63974
Iteration	750:	error	is	0.63974
Iteration	760:	error	is	0.63974
Iteration	770:	error	is	0.63974
Iteration	780:	error	is	0.63973
Iteration	790:	error	is	0.63973
Iteration	800:	error	is	0.63973
Iteration	810:	error	is	0.63973
Iteration	820:	error	is	0.63973
Iteration	830:	error	is	0.63973
Iteration	840:	error	is	0.63973
Iteration	850:	error	is	0.63973
Iteration	860:	error	is	0.63973
Iteration	870:	error	is	0.63973

Iteration 880: error is 0.63973  
Iteration 890: error is 0.63973  
Iteration 900: error is 0.63972  
Iteration 910: error is 0.63972  
Iteration 920: error is 0.63972  
Iteration 930: error is 0.63972  
Iteration 940: error is 0.63972  
Iteration 950: error is 0.63972  
Iteration 960: error is 0.63972  
Iteration 970: error is 0.63972  
Iteration 980: error is 0.63972  
Iteration 990: error is 0.63972  
Iteration 1000: error is 0.63972  
J\_new = 0.8439  
J\_new = 0.8281  
J\_new = 0.8163  
J\_new = 0.8143  
J\_new = 0.8118  
J\_new = 0.8075  
J\_new = 0.8059  
J\_new = 0.8014

```
J_new = 0.7861
J_new = 0.7421
J_new = 0.7426
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.2644
Iteration 20: error is 36.9109
Iteration 30: error is 36.7161
Iteration 40: error is 37.1395
Iteration 50: error is 37.3817
Iteration 60: error is 37.018
Iteration 70: error is 37.7829
Iteration 80: error is 38.2411
Iteration 90: error is 38.1909
Iteration 100: error is 2.4545
Iteration 110: error is 1.2873
Iteration 120: error is 0.89277
Iteration 130: error is 0.72461
Iteration 140: error is 0.71391
Iteration 150: error is 0.6663
```

Iteration	160:	error	is	0.65882
Iteration	170:	error	is	0.65291
Iteration	180:	error	is	0.64937
Iteration	190:	error	is	0.64698
Iteration	200:	error	is	0.64463
Iteration	210:	error	is	0.64265
Iteration	220:	error	is	0.64132
Iteration	230:	error	is	0.64001
Iteration	240:	error	is	0.63904
Iteration	250:	error	is	0.63813
Iteration	260:	error	is	0.63675
Iteration	270:	error	is	0.63522
Iteration	280:	error	is	0.63411
Iteration	290:	error	is	0.63336
Iteration	300:	error	is	0.63279
Iteration	310:	error	is	0.63234
Iteration	320:	error	is	0.63198
Iteration	330:	error	is	0.6317
Iteration	340:	error	is	0.63148
Iteration	350:	error	is	0.63129
Iteration	360:	error	is	0.63114

Iteration	370:	error	is	0.63101
Iteration	380:	error	is	0.63091
Iteration	390:	error	is	0.63082
Iteration	400:	error	is	0.63074
Iteration	410:	error	is	0.63068
Iteration	420:	error	is	0.63062
Iteration	430:	error	is	0.63058
Iteration	440:	error	is	0.63054
Iteration	450:	error	is	0.6305
Iteration	460:	error	is	0.63047
Iteration	470:	error	is	0.63045
Iteration	480:	error	is	0.63043
Iteration	490:	error	is	0.63041
Iteration	500:	error	is	0.63039
Iteration	510:	error	is	0.63038
Iteration	520:	error	is	0.63036
Iteration	530:	error	is	0.63035
Iteration	540:	error	is	0.63034
Iteration	550:	error	is	0.63033
Iteration	560:	error	is	0.63033
Iteration	570:	error	is	0.63032

Iteration 580: error is 0.63031  
Iteration 590: error is 0.63031  
Iteration 600: error is 0.6303  
Iteration 610: error is 0.6303  
Iteration 620: error is 0.63029  
Iteration 630: error is 0.63029  
Iteration 640: error is 0.63029  
Iteration 650: error is 0.63029  
Iteration 660: error is 0.63028  
Iteration 670: error is 0.63028  
Iteration 680: error is 0.63028  
Iteration 690: error is 0.63028  
Iteration 700: error is 0.63028  
Iteration 710: error is 0.63028  
Iteration 720: error is 0.63027  
Iteration 730: error is 0.63027  
Iteration 740: error is 0.63027  
Iteration 750: error is 0.63027  
Iteration 760: error is 0.63027  
Iteration 770: error is 0.63027  
Iteration 780: error is 0.63027

Iteration 790: error is 0.63027  
Iteration 800: error is 0.63027  
Iteration 810: error is 0.63027  
Iteration 820: error is 0.63027  
Iteration 830: error is 0.63027  
Iteration 840: error is 0.63027  
Iteration 850: error is 0.63027  
Iteration 860: error is 0.63027  
Iteration 870: error is 0.63027  
Iteration 880: error is 0.63027  
Iteration 890: error is 0.63027  
Iteration 900: error is 0.63027  
Iteration 910: error is 0.63027  
Iteration 920: error is 0.63027  
Iteration 930: error is 0.63027  
Iteration 940: error is 0.63027  
Iteration 950: error is 0.63027  
Iteration 960: error is 0.63027  
Iteration 970: error is 0.63027  
Iteration 980: error is 0.63026  
Iteration 990: error is 0.63026



Iteration 1000: error is 0.63026  
J\_new = 0.7979  
J\_new = 0.7742  
J\_new = 0.7529  
J\_new = 0.7448  
J\_new = 0.7444  
J\_new = 0.7453  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.8898  
Iteration 20: error is 37.3582  
Iteration 30: error is 36.4975  
Iteration 40: error is 36.8124  
Iteration 50: error is 36.319  
Iteration 60: error is 36.7366  
Iteration 70: error is 37.0773  
Iteration 80: error is 37.6016  
Iteration 90: error is 37.7074  
Iteration 100: error is 2.1826  
Iteration 110: error is 1.227

Iteration	120:	error	is	0.80065
Iteration	130:	error	is	0.75174
Iteration	140:	error	is	0.71344
Iteration	150:	error	is	0.70169
Iteration	160:	error	is	0.69554
Iteration	170:	error	is	0.69133
Iteration	180:	error	is	0.68798
Iteration	190:	error	is	0.68484
Iteration	200:	error	is	0.68142
Iteration	210:	error	is	0.67875
Iteration	220:	error	is	0.67731
Iteration	230:	error	is	0.67622
Iteration	240:	error	is	0.67532
Iteration	250:	error	is	0.67455
Iteration	260:	error	is	0.67338
Iteration	270:	error	is	0.67216
Iteration	280:	error	is	0.67124
Iteration	290:	error	is	0.67059
Iteration	300:	error	is	0.67009
Iteration	310:	error	is	0.66973
Iteration	320:	error	is	0.66945

Iteration	330:	error	is	0.66923
Iteration	340:	error	is	0.66906
Iteration	350:	error	is	0.66892
Iteration	360:	error	is	0.6688
Iteration	370:	error	is	0.66871
Iteration	380:	error	is	0.66863
Iteration	390:	error	is	0.66857
Iteration	400:	error	is	0.66852
Iteration	410:	error	is	0.66847
Iteration	420:	error	is	0.66843
Iteration	430:	error	is	0.6684
Iteration	440:	error	is	0.66837
Iteration	450:	error	is	0.66835
Iteration	460:	error	is	0.66833
Iteration	470:	error	is	0.66831
Iteration	480:	error	is	0.6683
Iteration	490:	error	is	0.66829
Iteration	500:	error	is	0.66828
Iteration	510:	error	is	0.66827
Iteration	520:	error	is	0.66826
Iteration	530:	error	is	0.66825

Iteration	540:	error	is	0.66825
Iteration	550:	error	is	0.66824
Iteration	560:	error	is	0.66824
Iteration	570:	error	is	0.66823
Iteration	580:	error	is	0.66823
Iteration	590:	error	is	0.66823
Iteration	600:	error	is	0.66822
Iteration	610:	error	is	0.66822
Iteration	620:	error	is	0.66822
Iteration	630:	error	is	0.66822
Iteration	640:	error	is	0.66821
Iteration	650:	error	is	0.66821
Iteration	660:	error	is	0.66821
Iteration	670:	error	is	0.66821
Iteration	680:	error	is	0.66821
Iteration	690:	error	is	0.66821
Iteration	700:	error	is	0.66821
Iteration	710:	error	is	0.66821
Iteration	720:	error	is	0.66821
Iteration	730:	error	is	0.66821
Iteration	740:	error	is	0.66821

Iteration 750: error is 0.66821  
Iteration 760: error is 0.66821  
Iteration 770: error is 0.6682  
Iteration 780: error is 0.6682  
Iteration 790: error is 0.6682  
Iteration 800: error is 0.6682  
Iteration 810: error is 0.6682  
Iteration 820: error is 0.6682  
Iteration 830: error is 0.6682  
Iteration 840: error is 0.6682  
Iteration 850: error is 0.6682  
Iteration 860: error is 0.6682  
Iteration 870: error is 0.6682  
Iteration 880: error is 0.6682  
Iteration 890: error is 0.6682  
Iteration 900: error is 0.6682  
Iteration 910: error is 0.6682  
Iteration 920: error is 0.6682  
Iteration 930: error is 0.6682  
Iteration 940: error is 0.6682  
Iteration 950: error is 0.6682

Iteration 960: error is 0.6682  
Iteration 970: error is 0.6682  
Iteration 980: error is 0.6682  
Iteration 990: error is 0.6682  
Iteration 1000: error is 0.6682  
J\_new = 0.8355  
J\_new = 0.8226  
J\_new = 0.8141  
J\_new = 0.8114  
J\_new = 0.8100  
J\_new = 0.8057  
J\_new = 0.8009  
J\_new = 0.7853  
J\_new = 0.7431  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.7679  
Iteration 20: error is 37.3507

Iteration	30:	error is	36.5667
Iteration	40:	error is	36.7907
Iteration	50:	error is	36.8736
Iteration	60:	error is	37.3618
Iteration	70:	error is	37.2017
Iteration	80:	error is	36.8791
Iteration	90:	error is	37.3556
Iteration	100:	error is	2.1849
Iteration	110:	error is	1.2315
Iteration	120:	error is	0.83059
Iteration	130:	error is	0.77483
Iteration	140:	error is	0.71885
Iteration	150:	error is	0.6836
Iteration	160:	error is	0.6774
Iteration	170:	error is	0.67287
Iteration	180:	error is	0.66907
Iteration	190:	error is	0.66637
Iteration	200:	error is	0.66342
Iteration	210:	error is	0.66157
Iteration	220:	error is	0.66003
Iteration	230:	error is	0.65869

Iteration	240:	error	is	0.6576
Iteration	250:	error	is	0.65666
Iteration	260:	error	is	0.65523
Iteration	270:	error	is	0.65363
Iteration	280:	error	is	0.65248
Iteration	290:	error	is	0.65164
Iteration	300:	error	is	0.65099
Iteration	310:	error	is	0.65051
Iteration	320:	error	is	0.65012
Iteration	330:	error	is	0.6498
Iteration	340:	error	is	0.64955
Iteration	350:	error	is	0.64935
Iteration	360:	error	is	0.64917
Iteration	370:	error	is	0.64903
Iteration	380:	error	is	0.6489
Iteration	390:	error	is	0.6488
Iteration	400:	error	is	0.64871
Iteration	410:	error	is	0.64863
Iteration	420:	error	is	0.64857
Iteration	430:	error	is	0.64851
Iteration	440:	error	is	0.64846



Iteration	450:	error	is	0.64842
Iteration	460:	error	is	0.64838
Iteration	470:	error	is	0.64834
Iteration	480:	error	is	0.64831
Iteration	490:	error	is	0.64828
Iteration	500:	error	is	0.64826
Iteration	510:	error	is	0.64824
Iteration	520:	error	is	0.64822
Iteration	530:	error	is	0.6482
Iteration	540:	error	is	0.64818
Iteration	550:	error	is	0.64817
Iteration	560:	error	is	0.64815
Iteration	570:	error	is	0.64814
Iteration	580:	error	is	0.64813
Iteration	590:	error	is	0.64812
Iteration	600:	error	is	0.64811
Iteration	610:	error	is	0.6481
Iteration	620:	error	is	0.6481
Iteration	630:	error	is	0.64809
Iteration	640:	error	is	0.64808
Iteration	650:	error	is	0.64808

Iteration	660:	error	is	0.64807
Iteration	670:	error	is	0.64806
Iteration	680:	error	is	0.64806
Iteration	690:	error	is	0.64806
Iteration	700:	error	is	0.64805
Iteration	710:	error	is	0.64805
Iteration	720:	error	is	0.64804
Iteration	730:	error	is	0.64804
Iteration	740:	error	is	0.64804
Iteration	750:	error	is	0.64803
Iteration	760:	error	is	0.64803
Iteration	770:	error	is	0.64803
Iteration	780:	error	is	0.64803
Iteration	790:	error	is	0.64802
Iteration	800:	error	is	0.64802
Iteration	810:	error	is	0.64802
Iteration	820:	error	is	0.64802
Iteration	830:	error	is	0.64802
Iteration	840:	error	is	0.64801
Iteration	850:	error	is	0.64801
Iteration	860:	error	is	0.64801

Iteration 870: error is 0.64801  
Iteration 880: error is 0.64801  
Iteration 890: error is 0.64801  
Iteration 900: error is 0.648  
Iteration 910: error is 0.648  
Iteration 920: error is 0.648  
Iteration 930: error is 0.648  
Iteration 940: error is 0.648  
Iteration 950: error is 0.648  
Iteration 960: error is 0.648  
Iteration 970: error is 0.648  
Iteration 980: error is 0.648  
Iteration 990: error is 0.648  
Iteration 1000: error is 0.648  
J\_new = 0.8719  
J\_new = 0.8356  
J\_new = 0.8232  
J\_new = 0.8142  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052

J\_new = 0.8031  
J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0747  
Iteration 20: error is 36.8173  
Iteration 30: error is 36.5966  
Iteration 40: error is 36.4102  
Iteration 50: error is 36.6111  
Iteration 60: error is 37.2548  
Iteration 70: error is 37.5141  
Iteration 80: error is 37.4126  
Iteration 90: error is 37.415  
Iteration 100: error is 2.2661  
Iteration 110: error is 1.3192  
Iteration 120: error is 0.87882  
Iteration 130: error is 0.71054

Iteration	140:	error	is	0.6834
Iteration	150:	error	is	0.67329
Iteration	160:	error	is	0.66536
Iteration	170:	error	is	0.65997
Iteration	180:	error	is	0.65613
Iteration	190:	error	is	0.65344
Iteration	200:	error	is	0.65122
Iteration	210:	error	is	0.6495
Iteration	220:	error	is	0.648
Iteration	230:	error	is	0.64672
Iteration	240:	error	is	0.64567
Iteration	250:	error	is	0.64474
Iteration	260:	error	is	0.6433
Iteration	270:	error	is	0.64177
Iteration	280:	error	is	0.6406
Iteration	290:	error	is	0.63972
Iteration	300:	error	is	0.6391
Iteration	310:	error	is	0.63861
Iteration	320:	error	is	0.63821
Iteration	330:	error	is	0.63788
Iteration	340:	error	is	0.63763

Iteration	350:	error	is	0.63743
Iteration	360:	error	is	0.63726
Iteration	370:	error	is	0.63712
Iteration	380:	error	is	0.637
Iteration	390:	error	is	0.6369
Iteration	400:	error	is	0.63681
Iteration	410:	error	is	0.63674
Iteration	420:	error	is	0.63668
Iteration	430:	error	is	0.63662
Iteration	440:	error	is	0.63658
Iteration	450:	error	is	0.63653
Iteration	460:	error	is	0.6365
Iteration	470:	error	is	0.63647
Iteration	480:	error	is	0.63644
Iteration	490:	error	is	0.63642
Iteration	500:	error	is	0.6364
Iteration	510:	error	is	0.63638
Iteration	520:	error	is	0.63636
Iteration	530:	error	is	0.63635
Iteration	540:	error	is	0.63634
Iteration	550:	error	is	0.63633

Iteration	560:	error	is	0.63632
Iteration	570:	error	is	0.63631
Iteration	580:	error	is	0.6363
Iteration	590:	error	is	0.63629
Iteration	600:	error	is	0.63629
Iteration	610:	error	is	0.63628
Iteration	620:	error	is	0.63628
Iteration	630:	error	is	0.63627
Iteration	640:	error	is	0.63626
Iteration	650:	error	is	0.63626
Iteration	660:	error	is	0.63626
Iteration	670:	error	is	0.63625
Iteration	680:	error	is	0.63625
Iteration	690:	error	is	0.63625
Iteration	700:	error	is	0.63625
Iteration	710:	error	is	0.63624
Iteration	720:	error	is	0.63624
Iteration	730:	error	is	0.63624
Iteration	740:	error	is	0.63624
Iteration	750:	error	is	0.63624
Iteration	760:	error	is	0.63624

Iteration 770: error is 0.63624  
Iteration 780: error is 0.63623  
Iteration 790: error is 0.63623  
Iteration 800: error is 0.63623  
Iteration 810: error is 0.63623  
Iteration 820: error is 0.63623  
Iteration 830: error is 0.63623  
Iteration 840: error is 0.63623  
Iteration 850: error is 0.63623  
Iteration 860: error is 0.63623  
Iteration 870: error is 0.63623  
Iteration 880: error is 0.63623  
Iteration 890: error is 0.63623  
Iteration 900: error is 0.63623  
Iteration 910: error is 0.63623  
Iteration 920: error is 0.63623  
Iteration 930: error is 0.63623  
Iteration 940: error is 0.63623  
Iteration 950: error is 0.63623  
Iteration 960: error is 0.63623  
Iteration 970: error is 0.63623



Iteration 980: error is 0.63623  
Iteration 990: error is 0.63623  
Iteration 1000: error is 0.63623  
J\_new = 0.8403  
J\_new = 0.8264  
J\_new = 0.8143  
J\_new = 0.8112  
J\_new = 0.8098  
J\_new = 0.8054  
J\_new = 0.8006  
J\_new = 0.7851  
J\_new = 0.7431  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0406  
Iteration 20: error is 36.9633  
Iteration 30: error is 36.7766  
Iteration 40: error is 37.2961

Iteration 50: error is 37.4326  
Iteration 60: error is 36.6668  
Iteration 70: error is 36.9757  
Iteration 80: error is 37.3598  
Iteration 90: error is 37.4515  
Iteration 100: error is 2.1184  
Iteration 110: error is 1.2541  
Iteration 120: error is 0.83447  
Iteration 130: error is 0.72278  
Iteration 140: error is 0.67655  
Iteration 150: error is 0.66604  
Iteration 160: error is 0.65928  
Iteration 170: error is 0.65442  
Iteration 180: error is 0.65075  
Iteration 190: error is 0.64889  
Iteration 200: error is 0.64577  
Iteration 210: error is 0.64393  
Iteration 220: error is 0.64245  
Iteration 230: error is 0.64112  
Iteration 240: error is 0.63994  
Iteration 250: error is 0.63907

Iteration	260:	error	is	0.63762
Iteration	270:	error	is	0.63603
Iteration	280:	error	is	0.6349
Iteration	290:	error	is	0.6341
Iteration	300:	error	is	0.63347
Iteration	310:	error	is	0.63299
Iteration	320:	error	is	0.63261
Iteration	330:	error	is	0.63231
Iteration	340:	error	is	0.63207
Iteration	350:	error	is	0.63187
Iteration	360:	error	is	0.63171
Iteration	370:	error	is	0.63159
Iteration	380:	error	is	0.63147
Iteration	390:	error	is	0.63138
Iteration	400:	error	is	0.6313
Iteration	410:	error	is	0.63123
Iteration	420:	error	is	0.63117
Iteration	430:	error	is	0.63112
Iteration	440:	error	is	0.63108
Iteration	450:	error	is	0.63104
Iteration	460:	error	is	0.63101

Iteration	470:	error	is	0.63098
Iteration	480:	error	is	0.63095
Iteration	490:	error	is	0.63093
Iteration	500:	error	is	0.63091
Iteration	510:	error	is	0.6309
Iteration	520:	error	is	0.63088
Iteration	530:	error	is	0.63087
Iteration	540:	error	is	0.63086
Iteration	550:	error	is	0.63085
Iteration	560:	error	is	0.63084
Iteration	570:	error	is	0.63083
Iteration	580:	error	is	0.63082
Iteration	590:	error	is	0.63082
Iteration	600:	error	is	0.63081
Iteration	610:	error	is	0.63081
Iteration	620:	error	is	0.6308
Iteration	630:	error	is	0.6308
Iteration	640:	error	is	0.6308
Iteration	650:	error	is	0.63079
Iteration	660:	error	is	0.63079
Iteration	670:	error	is	0.63079

Iteration 680: error is 0.63079  
Iteration 690: error is 0.63078  
Iteration 700: error is 0.63078  
Iteration 710: error is 0.63078  
Iteration 720: error is 0.63078  
Iteration 730: error is 0.63078  
Iteration 740: error is 0.63078  
Iteration 750: error is 0.63078  
Iteration 760: error is 0.63078  
Iteration 770: error is 0.63077  
Iteration 780: error is 0.63077  
Iteration 790: error is 0.63077  
Iteration 800: error is 0.63077  
Iteration 810: error is 0.63077  
Iteration 820: error is 0.63077  
Iteration 830: error is 0.63077  
Iteration 840: error is 0.63077  
Iteration 850: error is 0.63077  
Iteration 860: error is 0.63077  
Iteration 870: error is 0.63077  
Iteration 880: error is 0.63077

Iteration 890: error is 0.63077  
Iteration 900: error is 0.63077  
Iteration 910: error is 0.63077  
Iteration 920: error is 0.63077  
Iteration 930: error is 0.63077  
Iteration 940: error is 0.63077  
Iteration 950: error is 0.63077  
Iteration 960: error is 0.63077  
Iteration 970: error is 0.63077  
Iteration 980: error is 0.63077  
Iteration 990: error is 0.63077  
Iteration 1000: error is 0.63077  
J\_new = 0.8337  
J\_new = 0.8188  
J\_new = 0.8167  
J\_new = 0.8161  
J\_new = 0.8139  
J\_new = 0.8119  
J\_new = 0.8083  
J\_new = 0.8064  
J\_new = 0.8026

J\_new = 0.7908  
J\_new = 0.7815  
J\_new = 0.7429  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.7144  
Iteration 20: error is 36.3957  
Iteration 30: error is 36.7831  
Iteration 40: error is 37.2961  
Iteration 50: error is 37.013  
Iteration 60: error is 36.7316  
Iteration 70: error is 37.5094  
Iteration 80: error is 36.7513  
Iteration 90: error is 37.1396  
Iteration 100: error is 2.2085  
Iteration 110: error is 1.1786  
Iteration 120: error is 0.79568  
Iteration 130: error is 0.70119

Iteration	140:	error	is	0.68244
Iteration	150:	error	is	0.67303
Iteration	160:	error	is	0.66632
Iteration	170:	error	is	0.66147
Iteration	180:	error	is	0.65807
Iteration	190:	error	is	0.65533
Iteration	200:	error	is	0.65316
Iteration	210:	error	is	0.65133
Iteration	220:	error	is	0.64983
Iteration	230:	error	is	0.64858
Iteration	240:	error	is	0.64757
Iteration	250:	error	is	0.64662
Iteration	260:	error	is	0.64519
Iteration	270:	error	is	0.64363
Iteration	280:	error	is	0.64251
Iteration	290:	error	is	0.64169
Iteration	300:	error	is	0.64062
Iteration	310:	error	is	0.64004
Iteration	320:	error	is	0.63966
Iteration	330:	error	is	0.63936
Iteration	340:	error	is	0.63912



Iteration	350:	error	is	0.63891
Iteration	360:	error	is	0.63874
Iteration	370:	error	is	0.63859
Iteration	380:	error	is	0.63847
Iteration	390:	error	is	0.63836
Iteration	400:	error	is	0.63827
Iteration	410:	error	is	0.6382
Iteration	420:	error	is	0.63813
Iteration	430:	error	is	0.63808
Iteration	440:	error	is	0.63803
Iteration	450:	error	is	0.63799
Iteration	460:	error	is	0.63795
Iteration	470:	error	is	0.63791
Iteration	480:	error	is	0.63787
Iteration	490:	error	is	0.63785
Iteration	500:	error	is	0.63782
Iteration	510:	error	is	0.6378
Iteration	520:	error	is	0.63779
Iteration	530:	error	is	0.63777
Iteration	540:	error	is	0.63776
Iteration	550:	error	is	0.63775

Iteration	560:	error	is	0.63774
Iteration	570:	error	is	0.63773
Iteration	580:	error	is	0.63772
Iteration	590:	error	is	0.63771
Iteration	600:	error	is	0.6377
Iteration	610:	error	is	0.6377
Iteration	620:	error	is	0.63769
Iteration	630:	error	is	0.63769
Iteration	640:	error	is	0.63768
Iteration	650:	error	is	0.63768
Iteration	660:	error	is	0.63767
Iteration	670:	error	is	0.63767
Iteration	680:	error	is	0.63767
Iteration	690:	error	is	0.63766
Iteration	700:	error	is	0.63766
Iteration	710:	error	is	0.63766
Iteration	720:	error	is	0.63766
Iteration	730:	error	is	0.63766
Iteration	740:	error	is	0.63765
Iteration	750:	error	is	0.63765
Iteration	760:	error	is	0.63765

Iteration 770: error is 0.63765  
Iteration 780: error is 0.63765  
Iteration 790: error is 0.63765  
Iteration 800: error is 0.63765  
Iteration 810: error is 0.63765  
Iteration 820: error is 0.63764  
Iteration 830: error is 0.63764  
Iteration 840: error is 0.63764  
Iteration 850: error is 0.63764  
Iteration 860: error is 0.63764  
Iteration 870: error is 0.63764  
Iteration 880: error is 0.63764  
Iteration 890: error is 0.63764  
Iteration 900: error is 0.63764  
Iteration 910: error is 0.63764  
Iteration 920: error is 0.63764  
Iteration 930: error is 0.63764  
Iteration 940: error is 0.63764  
Iteration 950: error is 0.63764  
Iteration 960: error is 0.63764  
Iteration 970: error is 0.63764

Iteration 980: error is 0.63764  
Iteration 990: error is 0.63764  
Iteration 1000: error is 0.63764  
J\_new = 0.8418  
J\_new = 0.8272  
J\_new = 0.8144  
J\_new = 0.8112  
J\_new = 0.8098  
J\_new = 0.8054  
J\_new = 0.8006  
J\_new = 0.7851  
J\_new = 0.7431  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9294  
Iteration 20: error is 36.613  
Iteration 30: error is 36.5516  
Iteration 40: error is 37.1383

Iteration 50: error is 36.606  
Iteration 60: error is 37.5748  
Iteration 70: error is 37.4938  
Iteration 80: error is 36.9752  
Iteration 90: error is 36.8942  
Iteration 100: error is 2.2612  
Iteration 110: error is 1.2864  
Iteration 120: error is 0.86115  
Iteration 130: error is 0.73306  
Iteration 140: error is 0.67962  
Iteration 150: error is 0.66796  
Iteration 160: error is 0.66135  
Iteration 170: error is 0.65675  
Iteration 180: error is 0.65312  
Iteration 190: error is 0.65028  
Iteration 200: error is 0.64816  
Iteration 210: error is 0.64618  
Iteration 220: error is 0.64464  
Iteration 230: error is 0.64339  
Iteration 240: error is 0.64234  
Iteration 250: error is 0.64154

Iteration	260:	error	is	0.64009
Iteration	270:	error	is	0.63863
Iteration	280:	error	is	0.63752
Iteration	290:	error	is	0.63667
Iteration	300:	error	is	0.63604
Iteration	310:	error	is	0.63555
Iteration	320:	error	is	0.63516
Iteration	330:	error	is	0.63486
Iteration	340:	error	is	0.63461
Iteration	350:	error	is	0.63441
Iteration	360:	error	is	0.63424
Iteration	370:	error	is	0.6341
Iteration	380:	error	is	0.63399
Iteration	390:	error	is	0.63389
Iteration	400:	error	is	0.63381
Iteration	410:	error	is	0.63374
Iteration	420:	error	is	0.63368
Iteration	430:	error	is	0.63363
Iteration	440:	error	is	0.63358
Iteration	450:	error	is	0.63354
Iteration	460:	error	is	0.63351

Iteration	470:	error	is	0.63348
Iteration	480:	error	is	0.63345
Iteration	490:	error	is	0.63343
Iteration	500:	error	is	0.63341
Iteration	510:	error	is	0.63339
Iteration	520:	error	is	0.63338
Iteration	530:	error	is	0.63336
Iteration	540:	error	is	0.63335
Iteration	550:	error	is	0.63334
Iteration	560:	error	is	0.63333
Iteration	570:	error	is	0.63332
Iteration	580:	error	is	0.63332
Iteration	590:	error	is	0.63331
Iteration	600:	error	is	0.63331
Iteration	610:	error	is	0.6333
Iteration	620:	error	is	0.6333
Iteration	630:	error	is	0.63329
Iteration	640:	error	is	0.63329
Iteration	650:	error	is	0.63329
Iteration	660:	error	is	0.63328
Iteration	670:	error	is	0.63328

Iteration	680:	error	is	0.63328
Iteration	690:	error	is	0.63328
Iteration	700:	error	is	0.63327
Iteration	710:	error	is	0.63327
Iteration	720:	error	is	0.63327
Iteration	730:	error	is	0.63327
Iteration	740:	error	is	0.63327
Iteration	750:	error	is	0.63327
Iteration	760:	error	is	0.63327
Iteration	770:	error	is	0.63326
Iteration	780:	error	is	0.63326
Iteration	790:	error	is	0.63326
Iteration	800:	error	is	0.63326
Iteration	810:	error	is	0.63326
Iteration	820:	error	is	0.63326
Iteration	830:	error	is	0.63326
Iteration	840:	error	is	0.63326
Iteration	850:	error	is	0.63326
Iteration	860:	error	is	0.63326
Iteration	870:	error	is	0.63326
Iteration	880:	error	is	0.63326



Iteration 890: error is 0.63326  
Iteration 900: error is 0.63326  
Iteration 910: error is 0.63326  
Iteration 920: error is 0.63326  
Iteration 930: error is 0.63326  
Iteration 940: error is 0.63326  
Iteration 950: error is 0.63326  
Iteration 960: error is 0.63326  
Iteration 970: error is 0.63326  
Iteration 980: error is 0.63326  
Iteration 990: error is 0.63326  
Iteration 1000: error is 0.63326  
J\_new = 0.8433  
J\_new = 0.8272  
J\_new = 0.8165  
J\_new = 0.8150  
J\_new = 0.8145  
J\_new = 0.8108  
J\_new = 0.8088  
J\_new = 0.8052  
J\_new = 0.8031

J\_new = 0.7896  
J\_new = 0.7820  
J\_new = 0.7418  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0759  
Iteration 20: error is 37.0911  
Iteration 30: error is 36.3741  
Iteration 40: error is 36.617  
Iteration 50: error is 36.5552  
Iteration 60: error is 37.0265  
Iteration 70: error is 37.6932  
Iteration 80: error is 37.9738  
Iteration 90: error is 37.8111  
Iteration 100: error is 2.2009  
Iteration 110: error is 1.4102  
Iteration 120: error is 0.97144  
Iteration 130: error is 0.86485  
Iteration 140: error is 0.74726

Iteration	150:	error	is	0.72871
Iteration	160:	error	is	0.69472
Iteration	170:	error	is	0.66922
Iteration	180:	error	is	0.66536
Iteration	190:	error	is	0.66248
Iteration	200:	error	is	0.66023
Iteration	210:	error	is	0.65837
Iteration	220:	error	is	0.6569
Iteration	230:	error	is	0.65566
Iteration	240:	error	is	0.6546
Iteration	250:	error	is	0.6537
Iteration	260:	error	is	0.65228
Iteration	270:	error	is	0.65079
Iteration	280:	error	is	0.64971
Iteration	290:	error	is	0.6489
Iteration	300:	error	is	0.64819
Iteration	310:	error	is	0.64421
Iteration	320:	error	is	0.63743
Iteration	330:	error	is	0.63701
Iteration	340:	error	is	0.63363
Iteration	350:	error	is	0.63309

Iteration	360:	error	is	0.63278
Iteration	370:	error	is	0.63254
Iteration	380:	error	is	0.63241
Iteration	390:	error	is	0.63229
Iteration	400:	error	is	0.6322
Iteration	410:	error	is	0.6321
Iteration	420:	error	is	0.63202
Iteration	430:	error	is	0.63196
Iteration	440:	error	is	0.63191
Iteration	450:	error	is	0.63186
Iteration	460:	error	is	0.63181
Iteration	470:	error	is	0.63178
Iteration	480:	error	is	0.63174
Iteration	490:	error	is	0.63172
Iteration	500:	error	is	0.63169
Iteration	510:	error	is	0.63167
Iteration	520:	error	is	0.63165
Iteration	530:	error	is	0.63163
Iteration	540:	error	is	0.63162
Iteration	550:	error	is	0.63161
Iteration	560:	error	is	0.6316

Iteration	570:	error	is	0.63159
Iteration	580:	error	is	0.63158
Iteration	590:	error	is	0.63157
Iteration	600:	error	is	0.63156
Iteration	610:	error	is	0.63156
Iteration	620:	error	is	0.63155
Iteration	630:	error	is	0.63154
Iteration	640:	error	is	0.63154
Iteration	650:	error	is	0.63154
Iteration	660:	error	is	0.63153
Iteration	670:	error	is	0.63153
Iteration	680:	error	is	0.63153
Iteration	690:	error	is	0.63152
Iteration	700:	error	is	0.63152
Iteration	710:	error	is	0.63152
Iteration	720:	error	is	0.63152
Iteration	730:	error	is	0.63152
Iteration	740:	error	is	0.63151
Iteration	750:	error	is	0.63151
Iteration	760:	error	is	0.63151
Iteration	770:	error	is	0.63151

Iteration 780: error is 0.63151  
Iteration 790: error is 0.63151  
Iteration 800: error is 0.63151  
Iteration 810: error is 0.63151  
Iteration 820: error is 0.63151  
Iteration 830: error is 0.63151  
Iteration 840: error is 0.63151  
Iteration 850: error is 0.63151  
Iteration 860: error is 0.63151  
Iteration 870: error is 0.63151  
Iteration 880: error is 0.63151  
Iteration 890: error is 0.6315  
Iteration 900: error is 0.6315  
Iteration 910: error is 0.6315  
Iteration 920: error is 0.6315  
Iteration 930: error is 0.6315  
Iteration 940: error is 0.6315  
Iteration 950: error is 0.6315  
Iteration 960: error is 0.6315  
Iteration 970: error is 0.6315  
Iteration 980: error is 0.6315

Iteration 990: error is 0.6315  
Iteration 1000: error is 0.6315  
J\_new = 0.8438  
J\_new = 0.8275  
J\_new = 0.8163  
J\_new = 0.8143  
J\_new = 0.8118  
J\_new = 0.8075  
J\_new = 0.8059  
J\_new = 0.8014  
J\_new = 0.7861  
J\_new = 0.7421  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9486  
Iteration 20: error is 37.028  
Iteration 30: error is 36.7487  
Iteration 40: error is 37.0932  
Iteration 50: error is 37.1127

Iteration 60: error is 36.9593  
Iteration 70: error is 37.3993  
Iteration 80: error is 37.2212  
Iteration 90: error is 37.3858  
Iteration 100: error is 2.4372  
Iteration 110: error is 1.2579  
Iteration 120: error is 1.0035  
Iteration 130: error is 0.81558  
Iteration 140: error is 0.75164  
Iteration 150: error is 0.71645  
Iteration 160: error is 0.68568  
Iteration 170: error is 0.66501  
Iteration 180: error is 0.66029  
Iteration 190: error is 0.65768  
Iteration 200: error is 0.65556  
Iteration 210: error is 0.65386  
Iteration 220: error is 0.6525  
Iteration 230: error is 0.65133  
Iteration 240: error is 0.65034  
Iteration 250: error is 0.6495  
Iteration 260: error is 0.64816



Iteration	270:	error	is	0.64671
Iteration	280:	error	is	0.64568
Iteration	290:	error	is	0.64493
Iteration	300:	error	is	0.64437
Iteration	310:	error	is	0.64392
Iteration	320:	error	is	0.64356
Iteration	330:	error	is	0.64327
Iteration	340:	error	is	0.64304
Iteration	350:	error	is	0.64286
Iteration	360:	error	is	0.64271
Iteration	370:	error	is	0.64258
Iteration	380:	error	is	0.64248
Iteration	390:	error	is	0.6424
Iteration	400:	error	is	0.64232
Iteration	410:	error	is	0.64225
Iteration	420:	error	is	0.6422
Iteration	430:	error	is	0.64215
Iteration	440:	error	is	0.64211
Iteration	450:	error	is	0.64207
Iteration	460:	error	is	0.64204
Iteration	470:	error	is	0.64201

Iteration	480:	error	is	0.64199
Iteration	490:	error	is	0.64197
Iteration	500:	error	is	0.64195
Iteration	510:	error	is	0.64193
Iteration	520:	error	is	0.64192
Iteration	530:	error	is	0.64191
Iteration	540:	error	is	0.6419
Iteration	550:	error	is	0.64189
Iteration	560:	error	is	0.64188
Iteration	570:	error	is	0.64187
Iteration	580:	error	is	0.64186
Iteration	590:	error	is	0.64186
Iteration	600:	error	is	0.64185
Iteration	610:	error	is	0.64185
Iteration	620:	error	is	0.64184
Iteration	630:	error	is	0.64184
Iteration	640:	error	is	0.64184
Iteration	650:	error	is	0.64183
Iteration	660:	error	is	0.64183
Iteration	670:	error	is	0.64183
Iteration	680:	error	is	0.64183

Iteration 690: error is 0.64182  
Iteration 700: error is 0.64182  
Iteration 710: error is 0.64182  
Iteration 720: error is 0.64182  
Iteration 730: error is 0.64182  
Iteration 740: error is 0.64182  
Iteration 750: error is 0.64182  
Iteration 760: error is 0.64181  
Iteration 770: error is 0.64181  
Iteration 780: error is 0.64181  
Iteration 790: error is 0.64181  
Iteration 800: error is 0.64181  
Iteration 810: error is 0.64181  
Iteration 820: error is 0.64181  
Iteration 830: error is 0.64181  
Iteration 840: error is 0.64181  
Iteration 850: error is 0.64181  
Iteration 860: error is 0.64181  
Iteration 870: error is 0.64181  
Iteration 880: error is 0.64181  
Iteration 890: error is 0.64181

Iteration 900: error is 0.64181  
Iteration 910: error is 0.64181  
Iteration 920: error is 0.64181  
Iteration 930: error is 0.64181  
Iteration 940: error is 0.64181  
Iteration 950: error is 0.64181  
Iteration 960: error is 0.64181  
Iteration 970: error is 0.64181  
Iteration 980: error is 0.64181  
Iteration 990: error is 0.64181  
Iteration 1000: error is 0.64181  
J\_new = 0.8445  
J\_new = 0.8275  
J\_new = 0.8175  
J\_new = 0.8164  
J\_new = 0.8160  
J\_new = 0.8138  
J\_new = 0.8119  
J\_new = 0.8083  
J\_new = 0.8064  
J\_new = 0.8026

J\_new = 0.7908  
J\_new = 0.7815  
J\_new = 0.7429  
J\_new = 0.7420  
J\_new = 0.7426  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.2155  
Iteration 20: error is 37.0698  
Iteration 30: error is 36.3951  
Iteration 40: error is 36.6675  
Iteration 50: error is 37.0864  
Iteration 60: error is 37.3494  
Iteration 70: error is 37.6428  
Iteration 80: error is 37.2113  
Iteration 90: error is 37.2301  
Iteration 100: error is 2.1775  
Iteration 110: error is 1.2553  
Iteration 120: error is 0.83043  
Iteration 130: error is 0.72738

Iteration	140:	error	is	0.68736
Iteration	150:	error	is	0.67756
Iteration	160:	error	is	0.67118
Iteration	170:	error	is	0.66646
Iteration	180:	error	is	0.66297
Iteration	190:	error	is	0.66024
Iteration	200:	error	is	0.6581
Iteration	210:	error	is	0.65634
Iteration	220:	error	is	0.65488
Iteration	230:	error	is	0.65369
Iteration	240:	error	is	0.65267
Iteration	250:	error	is	0.65178
Iteration	260:	error	is	0.65033
Iteration	270:	error	is	0.64877
Iteration	280:	error	is	0.64767
Iteration	290:	error	is	0.6469
Iteration	300:	error	is	0.64625
Iteration	310:	error	is	0.6458
Iteration	320:	error	is	0.64544
Iteration	330:	error	is	0.64515
Iteration	340:	error	is	0.6449

Iteration	350:	error	is	0.64471
Iteration	360:	error	is	0.64455
Iteration	370:	error	is	0.64441
Iteration	380:	error	is	0.6443
Iteration	390:	error	is	0.64421
Iteration	400:	error	is	0.64412
Iteration	410:	error	is	0.64405
Iteration	420:	error	is	0.64399
Iteration	430:	error	is	0.64394
Iteration	440:	error	is	0.6439
Iteration	450:	error	is	0.64386
Iteration	460:	error	is	0.64383
Iteration	470:	error	is	0.6438
Iteration	480:	error	is	0.64377
Iteration	490:	error	is	0.64375
Iteration	500:	error	is	0.64373
Iteration	510:	error	is	0.64371
Iteration	520:	error	is	0.6437
Iteration	530:	error	is	0.64368
Iteration	540:	error	is	0.64367
Iteration	550:	error	is	0.64366

Iteration	560:	error	is	0.64365
Iteration	570:	error	is	0.64364
Iteration	580:	error	is	0.64364
Iteration	590:	error	is	0.64363
Iteration	600:	error	is	0.64362
Iteration	610:	error	is	0.64362
Iteration	620:	error	is	0.64361
Iteration	630:	error	is	0.64361
Iteration	640:	error	is	0.64361
Iteration	650:	error	is	0.6436
Iteration	660:	error	is	0.6436
Iteration	670:	error	is	0.6436
Iteration	680:	error	is	0.6436
Iteration	690:	error	is	0.64359
Iteration	700:	error	is	0.64359
Iteration	710:	error	is	0.64359
Iteration	720:	error	is	0.64359
Iteration	730:	error	is	0.64359
Iteration	740:	error	is	0.64359
Iteration	750:	error	is	0.64358
Iteration	760:	error	is	0.64358



Iteration 770: error is 0.64358  
Iteration 780: error is 0.64358  
Iteration 790: error is 0.64358  
Iteration 800: error is 0.64358  
Iteration 810: error is 0.64358  
Iteration 820: error is 0.64358  
Iteration 830: error is 0.64358  
Iteration 840: error is 0.64358  
Iteration 850: error is 0.64358  
Iteration 860: error is 0.64358  
Iteration 870: error is 0.64358  
Iteration 880: error is 0.64358  
Iteration 890: error is 0.64358  
Iteration 900: error is 0.64358  
Iteration 910: error is 0.64358  
Iteration 920: error is 0.64358  
Iteration 930: error is 0.64358  
Iteration 940: error is 0.64358  
Iteration 950: error is 0.64358  
Iteration 960: error is 0.64358  
Iteration 970: error is 0.64358

Iteration 980: error is 0.64358  
Iteration 990: error is 0.64358  
Iteration 1000: error is 0.64358  
J\_new = 0.8581  
J\_new = 0.8277  
J\_new = 0.8162  
J\_new = 0.8142  
J\_new = 0.8120  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.8041  
Iteration 20: error is 36.8925

Iteration 30: error is 36.6773  
Iteration 40: error is 36.9079  
Iteration 50: error is 37.001  
Iteration 60: error is 36.9916  
Iteration 70: error is 36.5  
Iteration 80: error is 36.9617  
Iteration 90: error is 37.45  
Iteration 100: error is 2.1633  
Iteration 110: error is 1.2195  
Iteration 120: error is 0.89819  
Iteration 130: error is 0.72012  
Iteration 140: error is 0.67534  
Iteration 150: error is 0.66253  
Iteration 160: error is 0.65399  
Iteration 170: error is 0.64835  
Iteration 180: error is 0.64501  
Iteration 190: error is 0.6422  
Iteration 200: error is 0.64002  
Iteration 210: error is 0.63817  
Iteration 220: error is 0.6367  
Iteration 230: error is 0.63546

Iteration	240:	error	is	0.63442
Iteration	250:	error	is	0.63354
Iteration	260:	error	is	0.63214
Iteration	270:	error	is	0.63056
Iteration	280:	error	is	0.62943
Iteration	290:	error	is	0.62863
Iteration	300:	error	is	0.628
Iteration	310:	error	is	0.62749
Iteration	320:	error	is	0.62711
Iteration	330:	error	is	0.6268
Iteration	340:	error	is	0.62654
Iteration	350:	error	is	0.62632
Iteration	360:	error	is	0.62615
Iteration	370:	error	is	0.62601
Iteration	380:	error	is	0.62589
Iteration	390:	error	is	0.62578
Iteration	400:	error	is	0.62569
Iteration	410:	error	is	0.62562
Iteration	420:	error	is	0.62556
Iteration	430:	error	is	0.6255
Iteration	440:	error	is	0.62545

Iteration	450:	error	is	0.62541
Iteration	460:	error	is	0.62537
Iteration	470:	error	is	0.62534
Iteration	480:	error	is	0.62531
Iteration	490:	error	is	0.62528
Iteration	500:	error	is	0.62526
Iteration	510:	error	is	0.62524
Iteration	520:	error	is	0.62523
Iteration	530:	error	is	0.62521
Iteration	540:	error	is	0.6252
Iteration	550:	error	is	0.62519
Iteration	560:	error	is	0.62517
Iteration	570:	error	is	0.62517
Iteration	580:	error	is	0.62516
Iteration	590:	error	is	0.62515
Iteration	600:	error	is	0.62514
Iteration	610:	error	is	0.62514
Iteration	620:	error	is	0.62513
Iteration	630:	error	is	0.62513
Iteration	640:	error	is	0.62512
Iteration	650:	error	is	0.62512

Iteration 660: error is 0.62511  
Iteration 670: error is 0.62511  
Iteration 680: error is 0.62511  
Iteration 690: error is 0.62511  
Iteration 700: error is 0.6251  
Iteration 710: error is 0.6251  
Iteration 720: error is 0.6251  
Iteration 730: error is 0.6251  
Iteration 740: error is 0.6251  
Iteration 750: error is 0.6251  
Iteration 760: error is 0.62509  
Iteration 770: error is 0.62509  
Iteration 780: error is 0.62509  
Iteration 790: error is 0.62509  
Iteration 800: error is 0.62509  
Iteration 810: error is 0.62509  
Iteration 820: error is 0.62509  
Iteration 830: error is 0.62509  
Iteration 840: error is 0.62509  
Iteration 850: error is 0.62509  
Iteration 860: error is 0.62509

Iteration 870: error is 0.62509  
Iteration 880: error is 0.62509  
Iteration 890: error is 0.62509  
Iteration 900: error is 0.62509  
Iteration 910: error is 0.62509  
Iteration 920: error is 0.62509  
Iteration 930: error is 0.62508  
Iteration 940: error is 0.62508  
Iteration 950: error is 0.62508  
Iteration 960: error is 0.62508  
Iteration 970: error is 0.62508  
Iteration 980: error is 0.62508  
Iteration 990: error is 0.62508  
Iteration 1000: error is 0.62508  
J\_new = 0.8707  
J\_new = 0.8456  
J\_new = 0.8216  
J\_new = 0.8097  
J\_new = 0.8063  
J\_new = 0.8014  
J\_new = 0.7857

```
J_new = 0.7434
J_new = 0.7420
J_new = 0.7426
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 38.9661
Iteration 20: error is 36.8949
Iteration 30: error is 36.7596
Iteration 40: error is 36.8484
Iteration 50: error is 37.3603
Iteration 60: error is 37.3691
Iteration 70: error is 37.3519
Iteration 80: error is 37.4676
Iteration 90: error is 37.1931
Iteration 100: error is 2.1281
Iteration 110: error is 1.104
Iteration 120: error is 0.84851
Iteration 130: error is 0.70205
Iteration 140: error is 0.67538
Iteration 150: error is 0.66496
```



Iteration	160:	error	is	0.65774
Iteration	170:	error	is	0.65289
Iteration	180:	error	is	0.64879
Iteration	190:	error	is	0.64581
Iteration	200:	error	is	0.64349
Iteration	210:	error	is	0.64161
Iteration	220:	error	is	0.6401
Iteration	230:	error	is	0.63879
Iteration	240:	error	is	0.63774
Iteration	250:	error	is	0.63678
Iteration	260:	error	is	0.63533
Iteration	270:	error	is	0.63379
Iteration	280:	error	is	0.63264
Iteration	290:	error	is	0.63177
Iteration	300:	error	is	0.63112
Iteration	310:	error	is	0.63061
Iteration	320:	error	is	0.63017
Iteration	330:	error	is	0.62986
Iteration	340:	error	is	0.62962
Iteration	350:	error	is	0.62941
Iteration	360:	error	is	0.62924

Iteration	370:	error	is	0.6291
Iteration	380:	error	is	0.62898
Iteration	390:	error	is	0.62887
Iteration	400:	error	is	0.62873
Iteration	410:	error	is	0.62835
Iteration	420:	error	is	0.62823
Iteration	430:	error	is	0.62817
Iteration	440:	error	is	0.62813
Iteration	450:	error	is	0.62808
Iteration	460:	error	is	0.62805
Iteration	470:	error	is	0.62801
Iteration	480:	error	is	0.62798
Iteration	490:	error	is	0.62796
Iteration	500:	error	is	0.62794
Iteration	510:	error	is	0.62792
Iteration	520:	error	is	0.6279
Iteration	530:	error	is	0.62788
Iteration	540:	error	is	0.62787
Iteration	550:	error	is	0.62786
Iteration	560:	error	is	0.62785
Iteration	570:	error	is	0.62784

Iteration	580:	error	is	0.62783
Iteration	590:	error	is	0.62782
Iteration	600:	error	is	0.62782
Iteration	610:	error	is	0.62781
Iteration	620:	error	is	0.62781
Iteration	630:	error	is	0.6278
Iteration	640:	error	is	0.6278
Iteration	650:	error	is	0.6278
Iteration	660:	error	is	0.62779
Iteration	670:	error	is	0.62779
Iteration	680:	error	is	0.62779
Iteration	690:	error	is	0.62778
Iteration	700:	error	is	0.62778
Iteration	710:	error	is	0.62778
Iteration	720:	error	is	0.62778
Iteration	730:	error	is	0.62778
Iteration	740:	error	is	0.62778
Iteration	750:	error	is	0.62777
Iteration	760:	error	is	0.62777
Iteration	770:	error	is	0.62777
Iteration	780:	error	is	0.62777

Iteration 790: error is 0.62777  
Iteration 800: error is 0.62777  
Iteration 810: error is 0.62777  
Iteration 820: error is 0.62777  
Iteration 830: error is 0.62777  
Iteration 840: error is 0.62777  
Iteration 850: error is 0.62777  
Iteration 860: error is 0.62777  
Iteration 870: error is 0.62777  
Iteration 880: error is 0.62777  
Iteration 890: error is 0.62777  
Iteration 900: error is 0.62777  
Iteration 910: error is 0.62777  
Iteration 920: error is 0.62777  
Iteration 930: error is 0.62777  
Iteration 940: error is 0.62777  
Iteration 950: error is 0.62777  
Iteration 960: error is 0.62777  
Iteration 970: error is 0.62777  
Iteration 980: error is 0.62777  
Iteration 990: error is 0.62777

Iteration 1000: error is 0.62777  
J\_new = 0.8869  
J\_new = 0.8686  
J\_new = 0.8423  
J\_new = 0.8323  
J\_new = 0.8245  
J\_new = 0.8231  
J\_new = 0.8236  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.0031  
Iteration 20: error is 37.07  
Iteration 30: error is 36.98  
Iteration 40: error is 37.1515  
Iteration 50: error is 37.1054  
Iteration 60: error is 37.673  
Iteration 70: error is 37.7294  
Iteration 80: error is 37.4417  
Iteration 90: error is 37.7253  
Iteration 100: error is 2.3627

Iteration	110:	error	is	1.3071
Iteration	120:	error	is	0.91144
Iteration	130:	error	is	0.79092
Iteration	140:	error	is	0.76544
Iteration	150:	error	is	0.72054
Iteration	160:	error	is	0.66075
Iteration	170:	error	is	0.64912
Iteration	180:	error	is	0.64509
Iteration	190:	error	is	0.64336
Iteration	200:	error	is	0.6404
Iteration	210:	error	is	0.6387
Iteration	220:	error	is	0.63727
Iteration	230:	error	is	0.63604
Iteration	240:	error	is	0.63503
Iteration	250:	error	is	0.63414
Iteration	260:	error	is	0.63272
Iteration	270:	error	is	0.63124
Iteration	280:	error	is	0.63014
Iteration	290:	error	is	0.62931
Iteration	300:	error	is	0.62865
Iteration	310:	error	is	0.62815

Iteration	320:	error	is	0.62776
Iteration	330:	error	is	0.62743
Iteration	340:	error	is	0.62717
Iteration	350:	error	is	0.62696
Iteration	360:	error	is	0.62678
Iteration	370:	error	is	0.62664
Iteration	380:	error	is	0.62651
Iteration	390:	error	is	0.62641
Iteration	400:	error	is	0.62632
Iteration	410:	error	is	0.62624
Iteration	420:	error	is	0.62618
Iteration	430:	error	is	0.62612
Iteration	440:	error	is	0.62607
Iteration	450:	error	is	0.62603
Iteration	460:	error	is	0.62599
Iteration	470:	error	is	0.62596
Iteration	480:	error	is	0.62593
Iteration	490:	error	is	0.6259
Iteration	500:	error	is	0.62588
Iteration	510:	error	is	0.62586
Iteration	520:	error	is	0.62585

Iteration	530:	error	is	0.62583
Iteration	540:	error	is	0.62582
Iteration	550:	error	is	0.62581
Iteration	560:	error	is	0.6258
Iteration	570:	error	is	0.62579
Iteration	580:	error	is	0.62578
Iteration	590:	error	is	0.62577
Iteration	600:	error	is	0.62576
Iteration	610:	error	is	0.62576
Iteration	620:	error	is	0.62575
Iteration	630:	error	is	0.62575
Iteration	640:	error	is	0.62574
Iteration	650:	error	is	0.62574
Iteration	660:	error	is	0.62574
Iteration	670:	error	is	0.62573
Iteration	680:	error	is	0.62573
Iteration	690:	error	is	0.62573
Iteration	700:	error	is	0.62573
Iteration	710:	error	is	0.62572
Iteration	720:	error	is	0.62572
Iteration	730:	error	is	0.62572



Iteration 740: error is 0.62572  
Iteration 750: error is 0.62572  
Iteration 760: error is 0.62572  
Iteration 770: error is 0.62572  
Iteration 780: error is 0.62572  
Iteration 790: error is 0.62571  
Iteration 800: error is 0.62571  
Iteration 810: error is 0.62571  
Iteration 820: error is 0.62571  
Iteration 830: error is 0.62571  
Iteration 840: error is 0.62571  
Iteration 850: error is 0.62571  
Iteration 860: error is 0.62571  
Iteration 870: error is 0.62571  
Iteration 880: error is 0.62571  
Iteration 890: error is 0.62571  
Iteration 900: error is 0.62571  
Iteration 910: error is 0.62571  
Iteration 920: error is 0.62571  
Iteration 930: error is 0.62571  
Iteration 940: error is 0.62571

Iteration 950: error is 0.62571  
Iteration 960: error is 0.62571  
Iteration 970: error is 0.62571  
Iteration 980: error is 0.62571  
Iteration 990: error is 0.62571  
Iteration 1000: error is 0.62571  
J\_new = 0.8445  
J\_new = 0.8286  
J\_new = 0.8175  
J\_new = 0.8161  
J\_new = 0.8157  
J\_new = 0.8134  
J\_new = 0.8116  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424

Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 40.3024  
Iteration 20: error is 36.3673  
Iteration 30: error is 36.5907  
Iteration 40: error is 37.3132  
Iteration 50: error is 37.5048  
Iteration 60: error is 37.4122  
Iteration 70: error is 36.8569  
Iteration 80: error is 37.3148  
Iteration 90: error is 37.0435  
Iteration 100: error is 2.3376  
Iteration 110: error is 1.2815  
Iteration 120: error is 0.82773  
Iteration 130: error is 0.71003  
Iteration 140: error is 0.67995  
Iteration 150: error is 0.67  
Iteration 160: error is 0.66267  
Iteration 170: error is 0.65769  
Iteration 180: error is 0.6542

Iteration	190:	error	is	0.65125
Iteration	200:	error	is	0.64909
Iteration	210:	error	is	0.64708
Iteration	220:	error	is	0.64547
Iteration	230:	error	is	0.64423
Iteration	240:	error	is	0.64311
Iteration	250:	error	is	0.64229
Iteration	260:	error	is	0.64074
Iteration	270:	error	is	0.63923
Iteration	280:	error	is	0.63809
Iteration	290:	error	is	0.63725
Iteration	300:	error	is	0.63661
Iteration	310:	error	is	0.6361
Iteration	320:	error	is	0.6357
Iteration	330:	error	is	0.63539
Iteration	340:	error	is	0.63506
Iteration	350:	error	is	0.63484
Iteration	360:	error	is	0.63466
Iteration	370:	error	is	0.63452
Iteration	380:	error	is	0.63439
Iteration	390:	error	is	0.63429

Iteration	400:	error	is	0.6342
Iteration	410:	error	is	0.63412
Iteration	420:	error	is	0.63405
Iteration	430:	error	is	0.634
Iteration	440:	error	is	0.63395
Iteration	450:	error	is	0.63391
Iteration	460:	error	is	0.63387
Iteration	470:	error	is	0.63384
Iteration	480:	error	is	0.63381
Iteration	490:	error	is	0.63378
Iteration	500:	error	is	0.63376
Iteration	510:	error	is	0.63374
Iteration	520:	error	is	0.63372
Iteration	530:	error	is	0.63371
Iteration	540:	error	is	0.6337
Iteration	550:	error	is	0.63369
Iteration	560:	error	is	0.63367
Iteration	570:	error	is	0.63367
Iteration	580:	error	is	0.63366
Iteration	590:	error	is	0.63365
Iteration	600:	error	is	0.63364

Iteration	610:	error	is	0.63364
Iteration	620:	error	is	0.63363
Iteration	630:	error	is	0.63363
Iteration	640:	error	is	0.63362
Iteration	650:	error	is	0.63362
Iteration	660:	error	is	0.63362
Iteration	670:	error	is	0.63361
Iteration	680:	error	is	0.63361
Iteration	690:	error	is	0.63361
Iteration	700:	error	is	0.63361
Iteration	710:	error	is	0.63361
Iteration	720:	error	is	0.6336
Iteration	730:	error	is	0.6336
Iteration	740:	error	is	0.6336
Iteration	750:	error	is	0.6336
Iteration	760:	error	is	0.6336
Iteration	770:	error	is	0.6336
Iteration	780:	error	is	0.6336
Iteration	790:	error	is	0.6336
Iteration	800:	error	is	0.6336
Iteration	810:	error	is	0.6336

Iteration 820: error is 0.63359  
Iteration 830: error is 0.63359  
Iteration 840: error is 0.63359  
Iteration 850: error is 0.63359  
Iteration 860: error is 0.63359  
Iteration 870: error is 0.63359  
Iteration 880: error is 0.63359  
Iteration 890: error is 0.63359  
Iteration 900: error is 0.63359  
Iteration 910: error is 0.63359  
Iteration 920: error is 0.63359  
Iteration 930: error is 0.63359  
Iteration 940: error is 0.63359  
Iteration 950: error is 0.63359  
Iteration 960: error is 0.63359  
Iteration 970: error is 0.63359  
Iteration 980: error is 0.63359  
Iteration 990: error is 0.63359  
Iteration 1000: error is 0.63359  
J\_new = 0.8434  
J\_new = 0.8271

```
J_new = 0.8160
J_new = 0.8142
J_new = 0.8120
J_new = 0.8081
J_new = 0.8065
J_new = 0.8025
J_new = 0.7909
J_new = 0.7814
J_new = 0.7431
J_new = 0.7419
J_new = 0.7428
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 40.5301
Iteration 20: error is 37.6972
Iteration 30: error is 37.424
Iteration 40: error is 37.3783
Iteration 50: error is 37.2019
Iteration 60: error is 37.8305
Iteration 70: error is 37.8486
```



Iteration 80: error is 37.4663  
Iteration 90: error is 37.3881  
Iteration 100: error is 2.3311  
Iteration 110: error is 1.1357  
Iteration 120: error is 0.76345  
Iteration 130: error is 0.70065  
Iteration 140: error is 0.68252  
Iteration 150: error is 0.67227  
Iteration 160: error is 0.66534  
Iteration 170: error is 0.66014  
Iteration 180: error is 0.65647  
Iteration 190: error is 0.65362  
Iteration 200: error is 0.65149  
Iteration 210: error is 0.6496  
Iteration 220: error is 0.64812  
Iteration 230: error is 0.64688  
Iteration 240: error is 0.64575  
Iteration 250: error is 0.64484  
Iteration 260: error is 0.64339  
Iteration 270: error is 0.64186  
Iteration 280: error is 0.64078

Iteration	290:	error	is	0.64001
Iteration	300:	error	is	0.63938
Iteration	310:	error	is	0.63889
Iteration	320:	error	is	0.63851
Iteration	330:	error	is	0.63819
Iteration	340:	error	is	0.63792
Iteration	350:	error	is	0.63762
Iteration	360:	error	is	0.63715
Iteration	370:	error	is	0.6369
Iteration	380:	error	is	0.63675
Iteration	390:	error	is	0.63665
Iteration	400:	error	is	0.63657
Iteration	410:	error	is	0.6365
Iteration	420:	error	is	0.63643
Iteration	430:	error	is	0.63637
Iteration	440:	error	is	0.63632
Iteration	450:	error	is	0.63627
Iteration	460:	error	is	0.63623
Iteration	470:	error	is	0.6362
Iteration	480:	error	is	0.63617
Iteration	490:	error	is	0.63615

Iteration	500:	error	is	0.63613
Iteration	510:	error	is	0.63611
Iteration	520:	error	is	0.63609
Iteration	530:	error	is	0.63607
Iteration	540:	error	is	0.63606
Iteration	550:	error	is	0.63605
Iteration	560:	error	is	0.63604
Iteration	570:	error	is	0.63603
Iteration	580:	error	is	0.63602
Iteration	590:	error	is	0.63602
Iteration	600:	error	is	0.63601
Iteration	610:	error	is	0.636
Iteration	620:	error	is	0.636
Iteration	630:	error	is	0.636
Iteration	640:	error	is	0.63599
Iteration	650:	error	is	0.63599
Iteration	660:	error	is	0.63599
Iteration	670:	error	is	0.63598
Iteration	680:	error	is	0.63598
Iteration	690:	error	is	0.63598
Iteration	700:	error	is	0.63598

Iteration	710:	error	is	0.63598
Iteration	720:	error	is	0.63597
Iteration	730:	error	is	0.63597
Iteration	740:	error	is	0.63597
Iteration	750:	error	is	0.63597
Iteration	760:	error	is	0.63597
Iteration	770:	error	is	0.63597
Iteration	780:	error	is	0.63597
Iteration	790:	error	is	0.63597
Iteration	800:	error	is	0.63597
Iteration	810:	error	is	0.63597
Iteration	820:	error	is	0.63597
Iteration	830:	error	is	0.63596
Iteration	840:	error	is	0.63596
Iteration	850:	error	is	0.63596
Iteration	860:	error	is	0.63596
Iteration	870:	error	is	0.63596
Iteration	880:	error	is	0.63596
Iteration	890:	error	is	0.63596
Iteration	900:	error	is	0.63596
Iteration	910:	error	is	0.63596

Iteration 920: error is 0.63596  
Iteration 930: error is 0.63596  
Iteration 940: error is 0.63596  
Iteration 950: error is 0.63596  
Iteration 960: error is 0.63596  
Iteration 970: error is 0.63596  
Iteration 980: error is 0.63596  
Iteration 990: error is 0.63596  
Iteration 1000: error is 0.63596  
J\_new = 0.8042  
J\_new = 0.7908  
J\_new = 0.7674  
J\_new = 0.7511  
J\_new = 0.7402  
J\_new = 0.7398  
J\_new = 0.7398  
J\_new = 0.7392  
J\_new = 0.7398  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312

Iteration 10: error is 39.4366  
Iteration 20: error is 37.0376  
Iteration 30: error is 37.8628  
Iteration 40: error is 37.1371  
Iteration 50: error is 37.1199  
Iteration 60: error is 37.5163  
Iteration 70: error is 37.6474  
Iteration 80: error is 37.9021  
Iteration 90: error is 38.4747  
Iteration 100: error is 2.406  
Iteration 110: error is 1.2224  
Iteration 120: error is 0.89284  
Iteration 130: error is 0.78947  
Iteration 140: error is 0.70578  
Iteration 150: error is 0.67772  
Iteration 160: error is 0.67077  
Iteration 170: error is 0.66607  
Iteration 180: error is 0.66278  
Iteration 190: error is 0.65994  
Iteration 200: error is 0.65807  
Iteration 210: error is 0.65608

Iteration	220:	error	is	0.65463
Iteration	230:	error	is	0.65334
Iteration	240:	error	is	0.65228
Iteration	250:	error	is	0.65137
Iteration	260:	error	is	0.64993
Iteration	270:	error	is	0.64838
Iteration	280:	error	is	0.64729
Iteration	290:	error	is	0.6465
Iteration	300:	error	is	0.64588
Iteration	310:	error	is	0.64541
Iteration	320:	error	is	0.64504
Iteration	330:	error	is	0.64476
Iteration	340:	error	is	0.64451
Iteration	350:	error	is	0.64432
Iteration	360:	error	is	0.64416
Iteration	370:	error	is	0.64403
Iteration	380:	error	is	0.64392
Iteration	390:	error	is	0.64383
Iteration	400:	error	is	0.64375
Iteration	410:	error	is	0.64368
Iteration	420:	error	is	0.64362

Iteration	430:	error	is	0.64357
Iteration	440:	error	is	0.64353
Iteration	450:	error	is	0.64349
Iteration	460:	error	is	0.64346
Iteration	470:	error	is	0.64343
Iteration	480:	error	is	0.64341
Iteration	490:	error	is	0.64338
Iteration	500:	error	is	0.64337
Iteration	510:	error	is	0.64335
Iteration	520:	error	is	0.64334
Iteration	530:	error	is	0.64332
Iteration	540:	error	is	0.64331
Iteration	550:	error	is	0.6433
Iteration	560:	error	is	0.64329
Iteration	570:	error	is	0.64329
Iteration	580:	error	is	0.64328
Iteration	590:	error	is	0.64327
Iteration	600:	error	is	0.64327
Iteration	610:	error	is	0.64326
Iteration	620:	error	is	0.64326
Iteration	630:	error	is	0.64325



Iteration	640:	error	is	0.64325
Iteration	650:	error	is	0.64325
Iteration	660:	error	is	0.64325
Iteration	670:	error	is	0.64324
Iteration	680:	error	is	0.64324
Iteration	690:	error	is	0.64324
Iteration	700:	error	is	0.64324
Iteration	710:	error	is	0.64324
Iteration	720:	error	is	0.64324
Iteration	730:	error	is	0.64323
Iteration	740:	error	is	0.64323
Iteration	750:	error	is	0.64323
Iteration	760:	error	is	0.64323
Iteration	770:	error	is	0.64323
Iteration	780:	error	is	0.64323
Iteration	790:	error	is	0.64323
Iteration	800:	error	is	0.64323
Iteration	810:	error	is	0.64323
Iteration	820:	error	is	0.64323
Iteration	830:	error	is	0.64323
Iteration	840:	error	is	0.64323

```
Iteration 850: error is 0.64323
Iteration 860: error is 0.64323
Iteration 870: error is 0.64323
Iteration 880: error is 0.64323
Iteration 890: error is 0.64323
Iteration 900: error is 0.64323
Iteration 910: error is 0.64323
Iteration 920: error is 0.64323
Iteration 930: error is 0.64323
Iteration 940: error is 0.64323
Iteration 950: error is 0.64323
Iteration 960: error is 0.64323
Iteration 970: error is 0.64323
Iteration 980: error is 0.64323
Iteration 990: error is 0.64323
Iteration 1000: error is 0.64322
J_new = 0.8338
J_new = 0.8190
J_new = 0.8171
J_new = 0.8163
J_new = 0.8138
```

J\_new = 0.8120  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.1308  
Iteration 20: error is 37.4706  
Iteration 30: error is 37.1978  
Iteration 40: error is 36.5332  
Iteration 50: error is 37.082  
Iteration 60: error is 37.7505  
Iteration 70: error is 37.9131  
Iteration 80: error is 37.7436  
Iteration 90: error is 37.2969

Iteration	100:	error	is	2.3099
Iteration	110:	error	is	1.3119
Iteration	120:	error	is	0.91636
Iteration	130:	error	is	0.82475
Iteration	140:	error	is	0.71039
Iteration	150:	error	is	0.70986
Iteration	160:	error	is	0.66911
Iteration	170:	error	is	0.66313
Iteration	180:	error	is	0.65872
Iteration	190:	error	is	0.65467
Iteration	200:	error	is	0.65241
Iteration	210:	error	is	0.65069
Iteration	220:	error	is	0.64921
Iteration	230:	error	is	0.64802
Iteration	240:	error	is	0.64697
Iteration	250:	error	is	0.64606
Iteration	260:	error	is	0.64466
Iteration	270:	error	is	0.64315
Iteration	280:	error	is	0.64203
Iteration	290:	error	is	0.64119
Iteration	300:	error	is	0.64058

Iteration	310:	error	is	0.64012
Iteration	320:	error	is	0.63974
Iteration	330:	error	is	0.63943
Iteration	340:	error	is	0.63919
Iteration	350:	error	is	0.639
Iteration	360:	error	is	0.63884
Iteration	370:	error	is	0.63871
Iteration	380:	error	is	0.63859
Iteration	390:	error	is	0.6385
Iteration	400:	error	is	0.63842
Iteration	410:	error	is	0.63835
Iteration	420:	error	is	0.63829
Iteration	430:	error	is	0.63824
Iteration	440:	error	is	0.6382
Iteration	450:	error	is	0.63816
Iteration	460:	error	is	0.63813
Iteration	470:	error	is	0.6381
Iteration	480:	error	is	0.63807
Iteration	490:	error	is	0.63805
Iteration	500:	error	is	0.63803
Iteration	510:	error	is	0.63802

Iteration	520:	error	is	0.638
Iteration	530:	error	is	0.63799
Iteration	540:	error	is	0.63798
Iteration	550:	error	is	0.63797
Iteration	560:	error	is	0.63796
Iteration	570:	error	is	0.63795
Iteration	580:	error	is	0.63794
Iteration	590:	error	is	0.63794
Iteration	600:	error	is	0.63793
Iteration	610:	error	is	0.63793
Iteration	620:	error	is	0.63792
Iteration	630:	error	is	0.63792
Iteration	640:	error	is	0.63791
Iteration	650:	error	is	0.63791
Iteration	660:	error	is	0.63791
Iteration	670:	error	is	0.63791
Iteration	680:	error	is	0.6379
Iteration	690:	error	is	0.6379
Iteration	700:	error	is	0.6379
Iteration	710:	error	is	0.6379
Iteration	720:	error	is	0.6379

Iteration 730: error is 0.6379  
Iteration 740: error is 0.63789  
Iteration 750: error is 0.63789  
Iteration 760: error is 0.63789  
Iteration 770: error is 0.63789  
Iteration 780: error is 0.63789  
Iteration 790: error is 0.63789  
Iteration 800: error is 0.63789  
Iteration 810: error is 0.63789  
Iteration 820: error is 0.63789  
Iteration 830: error is 0.63789  
Iteration 840: error is 0.63789  
Iteration 850: error is 0.63789  
Iteration 860: error is 0.63789  
Iteration 870: error is 0.63789  
Iteration 880: error is 0.63789  
Iteration 890: error is 0.63789  
Iteration 900: error is 0.63789  
Iteration 910: error is 0.63789  
Iteration 920: error is 0.63789  
Iteration 930: error is 0.63789

Iteration 940: error is 0.63789  
Iteration 950: error is 0.63789  
Iteration 960: error is 0.63788  
Iteration 970: error is 0.63788  
Iteration 980: error is 0.63788  
Iteration 990: error is 0.63788  
Iteration 1000: error is 0.63788  
J\_new = 0.8431  
J\_new = 0.8272  
J\_new = 0.8161  
J\_new = 0.8143  
J\_new = 0.8118  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017



Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.9882  
Iteration 20: error is 37.3113  
Iteration 30: error is 37.2559  
Iteration 40: error is 37.1388  
Iteration 50: error is 36.8151  
Iteration 60: error is 36.6855  
Iteration 70: error is 37.1353  
Iteration 80: error is 37.1797  
Iteration 90: error is 37.56  
Iteration 100: error is 2.1387  
Iteration 110: error is 1.2556  
Iteration 120: error is 0.90821  
Iteration 130: error is 0.70943  
Iteration 140: error is 0.69169  
Iteration 150: error is 0.66183  
Iteration 160: error is 0.65564  
Iteration 170: error is 0.65081  
Iteration 180: error is 0.64688  
Iteration 190: error is 0.64364

Iteration	200:	error	is	0.64142
Iteration	210:	error	is	0.63952
Iteration	220:	error	is	0.63807
Iteration	230:	error	is	0.6368
Iteration	240:	error	is	0.63576
Iteration	250:	error	is	0.63487
Iteration	260:	error	is	0.63352
Iteration	270:	error	is	0.63202
Iteration	280:	error	is	0.63089
Iteration	290:	error	is	0.63007
Iteration	300:	error	is	0.62945
Iteration	310:	error	is	0.62896
Iteration	320:	error	is	0.62858
Iteration	330:	error	is	0.62829
Iteration	340:	error	is	0.62804
Iteration	350:	error	is	0.62784
Iteration	360:	error	is	0.62765
Iteration	370:	error	is	0.6275
Iteration	380:	error	is	0.62738
Iteration	390:	error	is	0.62728
Iteration	400:	error	is	0.62718

Iteration	410:	error	is	0.6271
Iteration	420:	error	is	0.62701
Iteration	430:	error	is	0.62694
Iteration	440:	error	is	0.62688
Iteration	450:	error	is	0.62683
Iteration	460:	error	is	0.62679
Iteration	470:	error	is	0.62675
Iteration	480:	error	is	0.62672
Iteration	490:	error	is	0.62669
Iteration	500:	error	is	0.62666
Iteration	510:	error	is	0.62664
Iteration	520:	error	is	0.62663
Iteration	530:	error	is	0.62661
Iteration	540:	error	is	0.6266
Iteration	550:	error	is	0.62658
Iteration	560:	error	is	0.62657
Iteration	570:	error	is	0.62656
Iteration	580:	error	is	0.62655
Iteration	590:	error	is	0.62655
Iteration	600:	error	is	0.62654
Iteration	610:	error	is	0.62653

Iteration	620:	error	is	0.62653
Iteration	630:	error	is	0.62652
Iteration	640:	error	is	0.62652
Iteration	650:	error	is	0.62652
Iteration	660:	error	is	0.62651
Iteration	670:	error	is	0.62651
Iteration	680:	error	is	0.62651
Iteration	690:	error	is	0.62651
Iteration	700:	error	is	0.6265
Iteration	710:	error	is	0.6265
Iteration	720:	error	is	0.6265
Iteration	730:	error	is	0.6265
Iteration	740:	error	is	0.6265
Iteration	750:	error	is	0.6265
Iteration	760:	error	is	0.62649
Iteration	770:	error	is	0.62649
Iteration	780:	error	is	0.62649
Iteration	790:	error	is	0.62649
Iteration	800:	error	is	0.62649
Iteration	810:	error	is	0.62649
Iteration	820:	error	is	0.62649

Iteration 830: error is 0.62649  
Iteration 840: error is 0.62649  
Iteration 850: error is 0.62649  
Iteration 860: error is 0.62649  
Iteration 870: error is 0.62649  
Iteration 880: error is 0.62649  
Iteration 890: error is 0.62649  
Iteration 900: error is 0.62649  
Iteration 910: error is 0.62649  
Iteration 920: error is 0.62649  
Iteration 930: error is 0.62649  
Iteration 940: error is 0.62649  
Iteration 950: error is 0.62649  
Iteration 960: error is 0.62649  
Iteration 970: error is 0.62649  
Iteration 980: error is 0.62649  
Iteration 990: error is 0.62649  
Iteration 1000: error is 0.62649  
J\_new = 0.8515  
J\_new = 0.8261  
J\_new = 0.8133

J\_new = 0.8092  
J\_new = 0.8067  
J\_new = 0.7999  
J\_new = 0.7862  
J\_new = 0.7422  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.856  
Iteration 20: error is 37.0662  
Iteration 30: error is 36.848  
Iteration 40: error is 37.0121  
Iteration 50: error is 37.2866  
Iteration 60: error is 38.0339  
Iteration 70: error is 37.5177  
Iteration 80: error is 37.3878  
Iteration 90: error is 37.2175  
Iteration 100: error is 2.3588  
Iteration 110: error is 1.117  
Iteration 120: error is 0.79416

Iteration	130:	error	is	0.69081
Iteration	140:	error	is	0.67497
Iteration	150:	error	is	0.66524
Iteration	160:	error	is	0.65876
Iteration	170:	error	is	0.65391
Iteration	180:	error	is	0.6503
Iteration	190:	error	is	0.64765
Iteration	200:	error	is	0.64528
Iteration	210:	error	is	0.64344
Iteration	220:	error	is	0.64195
Iteration	230:	error	is	0.64064
Iteration	240:	error	is	0.63956
Iteration	250:	error	is	0.63866
Iteration	260:	error	is	0.63715
Iteration	270:	error	is	0.6356
Iteration	280:	error	is	0.63445
Iteration	290:	error	is	0.63356
Iteration	300:	error	is	0.63285
Iteration	310:	error	is	0.63228
Iteration	320:	error	is	0.63161
Iteration	330:	error	is	0.63119

Iteration	340:	error	is	0.63064
Iteration	350:	error	is	0.62907
Iteration	360:	error	is	0.62857
Iteration	370:	error	is	0.6283
Iteration	380:	error	is	0.62816
Iteration	390:	error	is	0.62806
Iteration	400:	error	is	0.62797
Iteration	410:	error	is	0.62788
Iteration	420:	error	is	0.6278
Iteration	430:	error	is	0.62774
Iteration	440:	error	is	0.62768
Iteration	450:	error	is	0.62763
Iteration	460:	error	is	0.62758
Iteration	470:	error	is	0.62755
Iteration	480:	error	is	0.62751
Iteration	490:	error	is	0.62748
Iteration	500:	error	is	0.62746
Iteration	510:	error	is	0.62744
Iteration	520:	error	is	0.62741
Iteration	530:	error	is	0.6274
Iteration	540:	error	is	0.62738



Iteration	550:	error	is	0.62737
Iteration	560:	error	is	0.62736
Iteration	570:	error	is	0.62735
Iteration	580:	error	is	0.62734
Iteration	590:	error	is	0.62733
Iteration	600:	error	is	0.62732
Iteration	610:	error	is	0.62731
Iteration	620:	error	is	0.62731
Iteration	630:	error	is	0.6273
Iteration	640:	error	is	0.6273
Iteration	650:	error	is	0.62729
Iteration	660:	error	is	0.62729
Iteration	670:	error	is	0.62728
Iteration	680:	error	is	0.62728
Iteration	690:	error	is	0.62728
Iteration	700:	error	is	0.62728
Iteration	710:	error	is	0.62727
Iteration	720:	error	is	0.62727
Iteration	730:	error	is	0.62727
Iteration	740:	error	is	0.62727
Iteration	750:	error	is	0.62727

Iteration 760: error is 0.62726  
Iteration 770: error is 0.62726  
Iteration 780: error is 0.62726  
Iteration 790: error is 0.62726  
Iteration 800: error is 0.62726  
Iteration 810: error is 0.62726  
Iteration 820: error is 0.62726  
Iteration 830: error is 0.62726  
Iteration 840: error is 0.62726  
Iteration 850: error is 0.62726  
Iteration 860: error is 0.62726  
Iteration 870: error is 0.62726  
Iteration 880: error is 0.62726  
Iteration 890: error is 0.62725  
Iteration 900: error is 0.62725  
Iteration 910: error is 0.62725  
Iteration 920: error is 0.62725  
Iteration 930: error is 0.62725  
Iteration 940: error is 0.62725  
Iteration 950: error is 0.62725  
Iteration 960: error is 0.62725

Iteration 970: error is 0.62725  
Iteration 980: error is 0.62725  
Iteration 990: error is 0.62725  
Iteration 1000: error is 0.62725  
J\_new = 0.8360  
J\_new = 0.8194  
J\_new = 0.8174  
J\_new = 0.8165  
J\_new = 0.8139  
J\_new = 0.8120  
J\_new = 0.8081  
J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312

Iteration 10: error is 39.3271  
Iteration 20: error is 37.0681  
Iteration 30: error is 36.4359  
Iteration 40: error is 36.3767  
Iteration 50: error is 37.4086  
Iteration 60: error is 37.2031  
Iteration 70: error is 37.0717  
Iteration 80: error is 36.9958  
Iteration 90: error is 37.6965  
Iteration 100: error is 2.3549  
Iteration 110: error is 1.1988  
Iteration 120: error is 0.81461  
Iteration 130: error is 0.70402  
Iteration 140: error is 0.68491  
Iteration 150: error is 0.67375  
Iteration 160: error is 0.66477  
Iteration 170: error is 0.65943  
Iteration 180: error is 0.65585  
Iteration 190: error is 0.6532  
Iteration 200: error is 0.65099  
Iteration 210: error is 0.64924

Iteration	220:	error	is	0.64787
Iteration	230:	error	is	0.64667
Iteration	240:	error	is	0.64567
Iteration	250:	error	is	0.64479
Iteration	260:	error	is	0.64344
Iteration	270:	error	is	0.64196
Iteration	280:	error	is	0.64086
Iteration	290:	error	is	0.6401
Iteration	300:	error	is	0.63953
Iteration	310:	error	is	0.63909
Iteration	320:	error	is	0.63872
Iteration	330:	error	is	0.63843
Iteration	340:	error	is	0.6382
Iteration	350:	error	is	0.63801
Iteration	360:	error	is	0.63786
Iteration	370:	error	is	0.63771
Iteration	380:	error	is	0.6376
Iteration	390:	error	is	0.6375
Iteration	400:	error	is	0.63742
Iteration	410:	error	is	0.63735
Iteration	420:	error	is	0.63728

Iteration	430:	error	is	0.63723
Iteration	440:	error	is	0.63719
Iteration	450:	error	is	0.63714
Iteration	460:	error	is	0.63711
Iteration	470:	error	is	0.63708
Iteration	480:	error	is	0.63705
Iteration	490:	error	is	0.63702
Iteration	500:	error	is	0.637
Iteration	510:	error	is	0.63698
Iteration	520:	error	is	0.63697
Iteration	530:	error	is	0.63695
Iteration	540:	error	is	0.63694
Iteration	550:	error	is	0.63692
Iteration	560:	error	is	0.63691
Iteration	570:	error	is	0.6369
Iteration	580:	error	is	0.63689
Iteration	590:	error	is	0.63689
Iteration	600:	error	is	0.63688
Iteration	610:	error	is	0.63687
Iteration	620:	error	is	0.63687
Iteration	630:	error	is	0.63686

Iteration	640:	error	is	0.63686
Iteration	650:	error	is	0.63685
Iteration	660:	error	is	0.63685
Iteration	670:	error	is	0.63684
Iteration	680:	error	is	0.63684
Iteration	690:	error	is	0.63684
Iteration	700:	error	is	0.63684
Iteration	710:	error	is	0.63683
Iteration	720:	error	is	0.63683
Iteration	730:	error	is	0.63683
Iteration	740:	error	is	0.63683
Iteration	750:	error	is	0.63682
Iteration	760:	error	is	0.63682
Iteration	770:	error	is	0.63682
Iteration	780:	error	is	0.63682
Iteration	790:	error	is	0.63682
Iteration	800:	error	is	0.63682
Iteration	810:	error	is	0.63682
Iteration	820:	error	is	0.63682
Iteration	830:	error	is	0.63682
Iteration	840:	error	is	0.63681

```
Iteration 850: error is 0.63681
Iteration 860: error is 0.63681
Iteration 870: error is 0.63681
Iteration 880: error is 0.63681
Iteration 890: error is 0.63681
Iteration 900: error is 0.63681
Iteration 910: error is 0.63681
Iteration 920: error is 0.63681
Iteration 930: error is 0.63681
Iteration 940: error is 0.63681
Iteration 950: error is 0.63681
Iteration 960: error is 0.63681
Iteration 970: error is 0.63681
Iteration 980: error is 0.63681
Iteration 990: error is 0.63681
Iteration 1000: error is 0.63681
J_new = 0.8752
J_new = 0.8381
J_new = 0.8273
J_new = 0.8268
J_new = 0.8279
```



Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.4562  
Iteration 20: error is 37.257  
Iteration 30: error is 36.9307  
Iteration 40: error is 37.3811  
Iteration 50: error is 37.4627  
Iteration 60: error is 37.1384  
Iteration 70: error is 37.2029  
Iteration 80: error is 37.0834  
Iteration 90: error is 36.9171  
Iteration 100: error is 2.1918  
Iteration 110: error is 1.1007  
Iteration 120: error is 0.82036  
Iteration 130: error is 0.70439  
Iteration 140: error is 0.67867  
Iteration 150: error is 0.6616  
Iteration 160: error is 0.65433  
Iteration 170: error is 0.64907  
Iteration 180: error is 0.64508

Iteration	190:	error	is	0.6422
Iteration	200:	error	is	0.63972
Iteration	210:	error	is	0.63781
Iteration	220:	error	is	0.63622
Iteration	230:	error	is	0.63486
Iteration	240:	error	is	0.63387
Iteration	250:	error	is	0.63273
Iteration	260:	error	is	0.63118
Iteration	270:	error	is	0.62948
Iteration	280:	error	is	0.62824
Iteration	290:	error	is	0.6274
Iteration	300:	error	is	0.62673
Iteration	310:	error	is	0.6262
Iteration	320:	error	is	0.6258
Iteration	330:	error	is	0.62547
Iteration	340:	error	is	0.62521
Iteration	350:	error	is	0.62499
Iteration	360:	error	is	0.62481
Iteration	370:	error	is	0.62466
Iteration	380:	error	is	0.62453
Iteration	390:	error	is	0.62442

Iteration	400:	error	is	0.62433
Iteration	410:	error	is	0.62425
Iteration	420:	error	is	0.62419
Iteration	430:	error	is	0.62413
Iteration	440:	error	is	0.62408
Iteration	450:	error	is	0.62404
Iteration	460:	error	is	0.624
Iteration	470:	error	is	0.62396
Iteration	480:	error	is	0.62393
Iteration	490:	error	is	0.62391
Iteration	500:	error	is	0.62389
Iteration	510:	error	is	0.62387
Iteration	520:	error	is	0.62385
Iteration	530:	error	is	0.62383
Iteration	540:	error	is	0.62382
Iteration	550:	error	is	0.62381
Iteration	560:	error	is	0.6238
Iteration	570:	error	is	0.62379
Iteration	580:	error	is	0.62378
Iteration	590:	error	is	0.62377
Iteration	600:	error	is	0.62376

Iteration	610:	error	is	0.62376
Iteration	620:	error	is	0.62375
Iteration	630:	error	is	0.62375
Iteration	640:	error	is	0.62374
Iteration	650:	error	is	0.62374
Iteration	660:	error	is	0.62374
Iteration	670:	error	is	0.62373
Iteration	680:	error	is	0.62373
Iteration	690:	error	is	0.62373
Iteration	700:	error	is	0.62373
Iteration	710:	error	is	0.62372
Iteration	720:	error	is	0.62372
Iteration	730:	error	is	0.62372
Iteration	740:	error	is	0.62372
Iteration	750:	error	is	0.62372
Iteration	760:	error	is	0.62372
Iteration	770:	error	is	0.62371
Iteration	780:	error	is	0.62371
Iteration	790:	error	is	0.62371
Iteration	800:	error	is	0.62371
Iteration	810:	error	is	0.62371

Iteration 820: error is 0.62371  
Iteration 830: error is 0.62371  
Iteration 840: error is 0.62371  
Iteration 850: error is 0.62371  
Iteration 860: error is 0.62371  
Iteration 870: error is 0.62371  
Iteration 880: error is 0.62371  
Iteration 890: error is 0.62371  
Iteration 900: error is 0.62371  
Iteration 910: error is 0.62371  
Iteration 920: error is 0.62371  
Iteration 930: error is 0.62371  
Iteration 940: error is 0.62371  
Iteration 950: error is 0.62371  
Iteration 960: error is 0.62371  
Iteration 970: error is 0.6237  
Iteration 980: error is 0.6237  
Iteration 990: error is 0.6237  
Iteration 1000: error is 0.6237  
J\_new = 0.8426  
J\_new = 0.8271

```
J_new = 0.8147
J_new = 0.8115
J_new = 0.8101
J_new = 0.8057
J_new = 0.8010
J_new = 0.7854
J_new = 0.7435
J_new = 0.7419
J_new = 0.7428
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 38.8959
Iteration 20: error is 37.1785
Iteration 30: error is 36.4312
Iteration 40: error is 36.8622
Iteration 50: error is 37.1242
Iteration 60: error is 37.0877
Iteration 70: error is 37.1212
Iteration 80: error is 37.1017
Iteration 90: error is 37.264
```

Iteration	100:	error	is	2.191
Iteration	110:	error	is	1.311
Iteration	120:	error	is	0.91357
Iteration	130:	error	is	0.70508
Iteration	140:	error	is	0.67675
Iteration	150:	error	is	0.66754
Iteration	160:	error	is	0.6617
Iteration	170:	error	is	0.65761
Iteration	180:	error	is	0.65413
Iteration	190:	error	is	0.65151
Iteration	200:	error	is	0.64947
Iteration	210:	error	is	0.64775
Iteration	220:	error	is	0.64636
Iteration	230:	error	is	0.64519
Iteration	240:	error	is	0.64419
Iteration	250:	error	is	0.64336
Iteration	260:	error	is	0.64197
Iteration	270:	error	is	0.6405
Iteration	280:	error	is	0.63945
Iteration	290:	error	is	0.63866
Iteration	300:	error	is	0.63808

Iteration	310:	error	is	0.63763
Iteration	320:	error	is	0.63728
Iteration	330:	error	is	0.637
Iteration	340:	error	is	0.63677
Iteration	350:	error	is	0.63659
Iteration	360:	error	is	0.63644
Iteration	370:	error	is	0.63631
Iteration	380:	error	is	0.63621
Iteration	390:	error	is	0.63612
Iteration	400:	error	is	0.63605
Iteration	410:	error	is	0.63598
Iteration	420:	error	is	0.63593
Iteration	430:	error	is	0.63588
Iteration	440:	error	is	0.63584
Iteration	450:	error	is	0.6358
Iteration	460:	error	is	0.63577
Iteration	470:	error	is	0.63574
Iteration	480:	error	is	0.63535
Iteration	490:	error	is	0.63467
Iteration	500:	error	is	0.63452
Iteration	510:	error	is	0.63448



Iteration	520:	error	is	0.63444
Iteration	530:	error	is	0.63442
Iteration	540:	error	is	0.63441
Iteration	550:	error	is	0.63439
Iteration	560:	error	is	0.63438
Iteration	570:	error	is	0.63437
Iteration	580:	error	is	0.63435
Iteration	590:	error	is	0.63435
Iteration	600:	error	is	0.63434
Iteration	610:	error	is	0.63433
Iteration	620:	error	is	0.63432
Iteration	630:	error	is	0.63432
Iteration	640:	error	is	0.63431
Iteration	650:	error	is	0.6343
Iteration	660:	error	is	0.6343
Iteration	670:	error	is	0.6343
Iteration	680:	error	is	0.63429
Iteration	690:	error	is	0.63429
Iteration	700:	error	is	0.63429
Iteration	710:	error	is	0.63428
Iteration	720:	error	is	0.63428

Iteration	730:	error	is	0.63428
Iteration	740:	error	is	0.63428
Iteration	750:	error	is	0.63428
Iteration	760:	error	is	0.63427
Iteration	770:	error	is	0.63427
Iteration	780:	error	is	0.63427
Iteration	790:	error	is	0.63427
Iteration	800:	error	is	0.63427
Iteration	810:	error	is	0.63427
Iteration	820:	error	is	0.63427
Iteration	830:	error	is	0.63427
Iteration	840:	error	is	0.63427
Iteration	850:	error	is	0.63427
Iteration	860:	error	is	0.63426
Iteration	870:	error	is	0.63426
Iteration	880:	error	is	0.63426
Iteration	890:	error	is	0.63426
Iteration	900:	error	is	0.63426
Iteration	910:	error	is	0.63426
Iteration	920:	error	is	0.63426
Iteration	930:	error	is	0.63426

Iteration 940: error is 0.63426  
Iteration 950: error is 0.63426  
Iteration 960: error is 0.63426  
Iteration 970: error is 0.63426  
Iteration 980: error is 0.63426  
Iteration 990: error is 0.63426  
Iteration 1000: error is 0.63426  
J\_new = 0.8625  
J\_new = 0.8407  
J\_new = 0.8310  
J\_new = 0.8230  
J\_new = 0.8225  
J\_new = 0.8234  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.8669  
Iteration 20: error is 36.5568  
Iteration 30: error is 36.6187  
Iteration 40: error is 36.7698  
Iteration 50: error is 36.55

Iteration 60: error is 37.4596  
Iteration 70: error is 37.2178  
Iteration 80: error is 37.5523  
Iteration 90: error is 38.4411  
Iteration 100: error is 2.3331  
Iteration 110: error is 1.5341  
Iteration 120: error is 1.0803  
Iteration 130: error is 0.92858  
Iteration 140: error is 0.83151  
Iteration 150: error is 0.70181  
Iteration 160: error is 0.69994  
Iteration 170: error is 0.65356  
Iteration 180: error is 0.647  
Iteration 190: error is 0.64436  
Iteration 200: error is 0.64235  
Iteration 210: error is 0.64075  
Iteration 220: error is 0.63945  
Iteration 230: error is 0.63834  
Iteration 240: error is 0.63738  
Iteration 250: error is 0.63656  
Iteration 260: error is 0.6352

Iteration	270:	error	is	0.63372
Iteration	280:	error	is	0.63266
Iteration	290:	error	is	0.63191
Iteration	300:	error	is	0.63132
Iteration	310:	error	is	0.63081
Iteration	320:	error	is	0.63043
Iteration	330:	error	is	0.63014
Iteration	340:	error	is	0.62988
Iteration	350:	error	is	0.62966
Iteration	360:	error	is	0.62949
Iteration	370:	error	is	0.62934
Iteration	380:	error	is	0.62921
Iteration	390:	error	is	0.6291
Iteration	400:	error	is	0.62902
Iteration	410:	error	is	0.62893
Iteration	420:	error	is	0.62887
Iteration	430:	error	is	0.62881
Iteration	440:	error	is	0.62876
Iteration	450:	error	is	0.62871
Iteration	460:	error	is	0.62867
Iteration	470:	error	is	0.62864

Iteration	480:	error	is	0.62861
Iteration	490:	error	is	0.62858
Iteration	500:	error	is	0.62856
Iteration	510:	error	is	0.62853
Iteration	520:	error	is	0.62852
Iteration	530:	error	is	0.6285
Iteration	540:	error	is	0.62848
Iteration	550:	error	is	0.62847
Iteration	560:	error	is	0.62846
Iteration	570:	error	is	0.62845
Iteration	580:	error	is	0.62844
Iteration	590:	error	is	0.62843
Iteration	600:	error	is	0.62842
Iteration	610:	error	is	0.62841
Iteration	620:	error	is	0.62841
Iteration	630:	error	is	0.6284
Iteration	640:	error	is	0.6284
Iteration	650:	error	is	0.62839
Iteration	660:	error	is	0.62839
Iteration	670:	error	is	0.62839
Iteration	680:	error	is	0.62838

Iteration 690: error is 0.62838  
Iteration 700: error is 0.62838  
Iteration 710: error is 0.62837  
Iteration 720: error is 0.62837  
Iteration 730: error is 0.62837  
Iteration 740: error is 0.62837  
Iteration 750: error is 0.62837  
Iteration 760: error is 0.62837  
Iteration 770: error is 0.62836  
Iteration 780: error is 0.62836  
Iteration 790: error is 0.62836  
Iteration 800: error is 0.62836  
Iteration 810: error is 0.62836  
Iteration 820: error is 0.62836  
Iteration 830: error is 0.62836  
Iteration 840: error is 0.62836  
Iteration 850: error is 0.62836  
Iteration 860: error is 0.62836  
Iteration 870: error is 0.62836  
Iteration 880: error is 0.62835  
Iteration 890: error is 0.62835

```
Iteration 900: error is 0.62835
Iteration 910: error is 0.62835
Iteration 920: error is 0.62835
Iteration 930: error is 0.62835
Iteration 940: error is 0.62835
Iteration 950: error is 0.62835
Iteration 960: error is 0.62835
Iteration 970: error is 0.62835
Iteration 980: error is 0.62835
Iteration 990: error is 0.62835
Iteration 1000: error is 0.62835
J_new = 0.8429
J_new = 0.8270
J_new = 0.8166
J_new = 0.8150
J_new = 0.8145
J_new = 0.8108
J_new = 0.8088
J_new = 0.8052
J_new = 0.8032
J_new = 0.7896
```



J\_new = 0.7820

J\_new = 0.7418

J\_new = 0.7425

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.852

Iteration 20: error is 37.0946

Iteration 30: error is 36.8681

Iteration 40: error is 37.3364

Iteration 50: error is 37.3042

Iteration 60: error is 37.39

Iteration 70: error is 37.2805

Iteration 80: error is 37.8639

Iteration 90: error is 37.166

Iteration 100: error is 2.1046

Iteration 110: error is 1.2536

Iteration 120: error is 0.90685

Iteration 130: error is 0.73034

Iteration 140: error is 0.69697

Iteration 150: error is 0.67291

Iteration	160:	error	is	0.66724
Iteration	170:	error	is	0.66296
Iteration	180:	error	is	0.6599
Iteration	190:	error	is	0.65727
Iteration	200:	error	is	0.65514
Iteration	210:	error	is	0.65346
Iteration	220:	error	is	0.65205
Iteration	230:	error	is	0.65085
Iteration	240:	error	is	0.64984
Iteration	250:	error	is	0.64897
Iteration	260:	error	is	0.6476
Iteration	270:	error	is	0.64612
Iteration	280:	error	is	0.64506
Iteration	290:	error	is	0.6443
Iteration	300:	error	is	0.6437
Iteration	310:	error	is	0.64325
Iteration	320:	error	is	0.64289
Iteration	330:	error	is	0.64259
Iteration	340:	error	is	0.64235
Iteration	350:	error	is	0.64215
Iteration	360:	error	is	0.64199

Iteration	370:	error	is	0.64185
Iteration	380:	error	is	0.64174
Iteration	390:	error	is	0.64165
Iteration	400:	error	is	0.64157
Iteration	410:	error	is	0.6415
Iteration	420:	error	is	0.64145
Iteration	430:	error	is	0.64139
Iteration	440:	error	is	0.64135
Iteration	450:	error	is	0.64131
Iteration	460:	error	is	0.64128
Iteration	470:	error	is	0.64125
Iteration	480:	error	is	0.64123
Iteration	490:	error	is	0.64121
Iteration	500:	error	is	0.64118
Iteration	510:	error	is	0.64117
Iteration	520:	error	is	0.64115
Iteration	530:	error	is	0.64114
Iteration	540:	error	is	0.64113
Iteration	550:	error	is	0.64112
Iteration	560:	error	is	0.64111
Iteration	570:	error	is	0.6411

Iteration	580:	error	is	0.64109
Iteration	590:	error	is	0.64108
Iteration	600:	error	is	0.64108
Iteration	610:	error	is	0.64107
Iteration	620:	error	is	0.64107
Iteration	630:	error	is	0.64106
Iteration	640:	error	is	0.64106
Iteration	650:	error	is	0.64106
Iteration	660:	error	is	0.64105
Iteration	670:	error	is	0.64105
Iteration	680:	error	is	0.64105
Iteration	690:	error	is	0.64104
Iteration	700:	error	is	0.64104
Iteration	710:	error	is	0.64104
Iteration	720:	error	is	0.64104
Iteration	730:	error	is	0.64104
Iteration	740:	error	is	0.64104
Iteration	750:	error	is	0.64103
Iteration	760:	error	is	0.64103
Iteration	770:	error	is	0.64103
Iteration	780:	error	is	0.64103

Iteration 790: error is 0.64103  
Iteration 800: error is 0.64103  
Iteration 810: error is 0.64103  
Iteration 820: error is 0.64103  
Iteration 830: error is 0.64103  
Iteration 840: error is 0.64103  
Iteration 850: error is 0.64103  
Iteration 860: error is 0.64103  
Iteration 870: error is 0.64103  
Iteration 880: error is 0.64103  
Iteration 890: error is 0.64103  
Iteration 900: error is 0.64103  
Iteration 910: error is 0.64103  
Iteration 920: error is 0.64103  
Iteration 930: error is 0.64102  
Iteration 940: error is 0.64102  
Iteration 950: error is 0.64102  
Iteration 960: error is 0.64102  
Iteration 970: error is 0.64102  
Iteration 980: error is 0.64102  
Iteration 990: error is 0.64102

Iteration 1000: error is 0.64102

J\_new = 0.8358

J\_new = 0.8210

J\_new = 0.8180

J\_new = 0.8172

J\_new = 0.8149

J\_new = 0.8144

J\_new = 0.8107

J\_new = 0.8088

J\_new = 0.8052

J\_new = 0.8032

J\_new = 0.7896

J\_new = 0.7820

J\_new = 0.7418

J\_new = 0.7425

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.4377

Iteration 20: error is 37.1889

Iteration 30: error is 36.9126

Iteration 40: error is 36.7043  
Iteration 50: error is 36.9709  
Iteration 60: error is 37.3659  
Iteration 70: error is 37.5414  
Iteration 80: error is 37.4565  
Iteration 90: error is 38.7319  
Iteration 100: error is 2.3626  
Iteration 110: error is 1.3765  
Iteration 120: error is 0.99179  
Iteration 130: error is 0.80304  
Iteration 140: error is 0.69748  
Iteration 150: error is 0.68763  
Iteration 160: error is 0.68138  
Iteration 170: error is 0.67672  
Iteration 180: error is 0.67328  
Iteration 190: error is 0.67071  
Iteration 200: error is 0.66855  
Iteration 210: error is 0.66684  
Iteration 220: error is 0.66545  
Iteration 230: error is 0.66425  
Iteration 240: error is 0.66323

Iteration	250:	error	is	0.66236
Iteration	260:	error	is	0.66101
Iteration	270:	error	is	0.65958
Iteration	280:	error	is	0.65851
Iteration	290:	error	is	0.65771
Iteration	300:	error	is	0.65713
Iteration	310:	error	is	0.65668
Iteration	320:	error	is	0.65634
Iteration	330:	error	is	0.65607
Iteration	340:	error	is	0.65585
Iteration	350:	error	is	0.65566
Iteration	360:	error	is	0.65552
Iteration	370:	error	is	0.6554
Iteration	380:	error	is	0.65529
Iteration	390:	error	is	0.6552
Iteration	400:	error	is	0.65513
Iteration	410:	error	is	0.65506
Iteration	420:	error	is	0.65501
Iteration	430:	error	is	0.65496
Iteration	440:	error	is	0.65492
Iteration	450:	error	is	0.65489



Iteration	460:	error	is	0.65486
Iteration	470:	error	is	0.65483
Iteration	480:	error	is	0.65481
Iteration	490:	error	is	0.65479
Iteration	500:	error	is	0.65478
Iteration	510:	error	is	0.65476
Iteration	520:	error	is	0.65475
Iteration	530:	error	is	0.65474
Iteration	540:	error	is	0.65473
Iteration	550:	error	is	0.65472
Iteration	560:	error	is	0.65471
Iteration	570:	error	is	0.6547
Iteration	580:	error	is	0.6547
Iteration	590:	error	is	0.65469
Iteration	600:	error	is	0.65469
Iteration	610:	error	is	0.65468
Iteration	620:	error	is	0.65468
Iteration	630:	error	is	0.65468
Iteration	640:	error	is	0.65467
Iteration	650:	error	is	0.65467
Iteration	660:	error	is	0.65467

Iteration 670: error is 0.65467  
Iteration 680: error is 0.65466  
Iteration 690: error is 0.65466  
Iteration 700: error is 0.65466  
Iteration 710: error is 0.65466  
Iteration 720: error is 0.65466  
Iteration 730: error is 0.65466  
Iteration 740: error is 0.65466  
Iteration 750: error is 0.65466  
Iteration 760: error is 0.65465  
Iteration 770: error is 0.65465  
Iteration 780: error is 0.65465  
Iteration 790: error is 0.65465  
Iteration 800: error is 0.65465  
Iteration 810: error is 0.65465  
Iteration 820: error is 0.65465  
Iteration 830: error is 0.65465  
Iteration 840: error is 0.65465  
Iteration 850: error is 0.65465  
Iteration 860: error is 0.65465  
Iteration 870: error is 0.65465

Iteration 880: error is 0.65465  
Iteration 890: error is 0.65465  
Iteration 900: error is 0.65465  
Iteration 910: error is 0.65465  
Iteration 920: error is 0.65465  
Iteration 930: error is 0.65465  
Iteration 940: error is 0.65465  
Iteration 950: error is 0.65465  
Iteration 960: error is 0.65465  
Iteration 970: error is 0.65465  
Iteration 980: error is 0.65465  
Iteration 990: error is 0.65465  
Iteration 1000: error is 0.65465  
J\_new = 0.8398  
J\_new = 0.8265  
J\_new = 0.8145  
J\_new = 0.8112  
J\_new = 0.8098  
J\_new = 0.8054  
J\_new = 0.8006  
J\_new = 0.7851

```
J_new = 0.7431
J_new = 0.7416
J_new = 0.7424
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.6297
Iteration 20: error is 37.2906
Iteration 30: error is 37.1515
Iteration 40: error is 37.5902
Iteration 50: error is 37.419
Iteration 60: error is 37.629
Iteration 70: error is 37.7646
Iteration 80: error is 38.0333
Iteration 90: error is 37.7176
Iteration 100: error is 2.1942
Iteration 110: error is 1.2346
Iteration 120: error is 0.89554
Iteration 130: error is 0.78545
Iteration 140: error is 0.69594
Iteration 150: error is 0.67899
```

Iteration	160:	error	is	0.66333
Iteration	170:	error	is	0.65902
Iteration	180:	error	is	0.65555
Iteration	190:	error	is	0.65294
Iteration	200:	error	is	0.65064
Iteration	210:	error	is	0.64889
Iteration	220:	error	is	0.64738
Iteration	230:	error	is	0.64612
Iteration	240:	error	is	0.64509
Iteration	250:	error	is	0.64416
Iteration	260:	error	is	0.64276
Iteration	270:	error	is	0.64122
Iteration	280:	error	is	0.64014
Iteration	290:	error	is	0.63933
Iteration	300:	error	is	0.6387
Iteration	310:	error	is	0.63823
Iteration	320:	error	is	0.63785
Iteration	330:	error	is	0.63755
Iteration	340:	error	is	0.63732
Iteration	350:	error	is	0.63713
Iteration	360:	error	is	0.63697

Iteration	370:	error	is	0.63681
Iteration	380:	error	is	0.6367
Iteration	390:	error	is	0.6366
Iteration	400:	error	is	0.63652
Iteration	410:	error	is	0.63645
Iteration	420:	error	is	0.6364
Iteration	430:	error	is	0.63634
Iteration	440:	error	is	0.6363
Iteration	450:	error	is	0.63626
Iteration	460:	error	is	0.63623
Iteration	470:	error	is	0.6362
Iteration	480:	error	is	0.63617
Iteration	490:	error	is	0.63615
Iteration	500:	error	is	0.63613
Iteration	510:	error	is	0.63611
Iteration	520:	error	is	0.6361
Iteration	530:	error	is	0.63609
Iteration	540:	error	is	0.63607
Iteration	550:	error	is	0.63606
Iteration	560:	error	is	0.63606
Iteration	570:	error	is	0.63605

Iteration	580:	error	is	0.63604
Iteration	590:	error	is	0.63603
Iteration	600:	error	is	0.63603
Iteration	610:	error	is	0.63602
Iteration	620:	error	is	0.63602
Iteration	630:	error	is	0.63601
Iteration	640:	error	is	0.63601
Iteration	650:	error	is	0.63601
Iteration	660:	error	is	0.63601
Iteration	670:	error	is	0.636
Iteration	680:	error	is	0.636
Iteration	690:	error	is	0.636
Iteration	700:	error	is	0.636
Iteration	710:	error	is	0.636
Iteration	720:	error	is	0.63599
Iteration	730:	error	is	0.63599
Iteration	740:	error	is	0.63599
Iteration	750:	error	is	0.63599
Iteration	760:	error	is	0.63599
Iteration	770:	error	is	0.63599
Iteration	780:	error	is	0.63599

Iteration	790:	error	is	0.63599
Iteration	800:	error	is	0.63599
Iteration	810:	error	is	0.63599
Iteration	820:	error	is	0.63599
Iteration	830:	error	is	0.63599
Iteration	840:	error	is	0.63598
Iteration	850:	error	is	0.63598
Iteration	860:	error	is	0.63598
Iteration	870:	error	is	0.63598
Iteration	880:	error	is	0.63598
Iteration	890:	error	is	0.63598
Iteration	900:	error	is	0.63598
Iteration	910:	error	is	0.63598
Iteration	920:	error	is	0.63598
Iteration	930:	error	is	0.63598
Iteration	940:	error	is	0.63598
Iteration	950:	error	is	0.63598
Iteration	960:	error	is	0.63598
Iteration	970:	error	is	0.63598
Iteration	980:	error	is	0.63598
Iteration	990:	error	is	0.63598



Iteration 1000: error is 0.63598

J\_new = 0.8438

J\_new = 0.8283

J\_new = 0.8177

J\_new = 0.8162

J\_new = 0.8159

J\_new = 0.8135

J\_new = 0.8116

J\_new = 0.8079

J\_new = 0.8061

J\_new = 0.8022

J\_new = 0.7905

J\_new = 0.7811

J\_new = 0.7427

J\_new = 0.7416

J\_new = 0.7424

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 39.6503

Iteration 20: error is 36.6521

Iteration 30: error is 36.8024  
Iteration 40: error is 36.6292  
Iteration 50: error is 37.2368  
Iteration 60: error is 37.0037  
Iteration 70: error is 37.3531  
Iteration 80: error is 37.2741  
Iteration 90: error is 37.723  
Iteration 100: error is 2.3018  
Iteration 110: error is 1.1418  
Iteration 120: error is 0.75508  
Iteration 130: error is 0.68918  
Iteration 140: error is 0.67504  
Iteration 150: error is 0.66499  
Iteration 160: error is 0.6586  
Iteration 170: error is 0.65383  
Iteration 180: error is 0.65022  
Iteration 190: error is 0.64748  
Iteration 200: error is 0.64536  
Iteration 210: error is 0.6435  
Iteration 220: error is 0.64209  
Iteration 230: error is 0.64082

Iteration	240:	error	is	0.63977
Iteration	250:	error	is	0.63888
Iteration	260:	error	is	0.63748
Iteration	270:	error	is	0.63598
Iteration	280:	error	is	0.63484
Iteration	290:	error	is	0.634
Iteration	300:	error	is	0.63338
Iteration	310:	error	is	0.6329
Iteration	320:	error	is	0.63252
Iteration	330:	error	is	0.63221
Iteration	340:	error	is	0.63197
Iteration	350:	error	is	0.63178
Iteration	360:	error	is	0.63161
Iteration	370:	error	is	0.63147
Iteration	380:	error	is	0.63135
Iteration	390:	error	is	0.63126
Iteration	400:	error	is	0.63117
Iteration	410:	error	is	0.6311
Iteration	420:	error	is	0.63104
Iteration	430:	error	is	0.63099
Iteration	440:	error	is	0.63095

Iteration	450:	error	is	0.63091
Iteration	460:	error	is	0.63087
Iteration	470:	error	is	0.63084
Iteration	480:	error	is	0.63082
Iteration	490:	error	is	0.6308
Iteration	500:	error	is	0.63078
Iteration	510:	error	is	0.63076
Iteration	520:	error	is	0.63074
Iteration	530:	error	is	0.63073
Iteration	540:	error	is	0.63072
Iteration	550:	error	is	0.63071
Iteration	560:	error	is	0.6307
Iteration	570:	error	is	0.63069
Iteration	580:	error	is	0.63068
Iteration	590:	error	is	0.63068
Iteration	600:	error	is	0.63067
Iteration	610:	error	is	0.63067
Iteration	620:	error	is	0.63066
Iteration	630:	error	is	0.63066
Iteration	640:	error	is	0.63065
Iteration	650:	error	is	0.63065

Iteration	660:	error	is	0.63065
Iteration	670:	error	is	0.63064
Iteration	680:	error	is	0.63064
Iteration	690:	error	is	0.63064
Iteration	700:	error	is	0.63064
Iteration	710:	error	is	0.63064
Iteration	720:	error	is	0.63064
Iteration	730:	error	is	0.63063
Iteration	740:	error	is	0.63063
Iteration	750:	error	is	0.63063
Iteration	760:	error	is	0.63063
Iteration	770:	error	is	0.63063
Iteration	780:	error	is	0.63063
Iteration	790:	error	is	0.63063
Iteration	800:	error	is	0.63063
Iteration	810:	error	is	0.63063
Iteration	820:	error	is	0.63063
Iteration	830:	error	is	0.63063
Iteration	840:	error	is	0.63063
Iteration	850:	error	is	0.63062
Iteration	860:	error	is	0.63062

Iteration 870: error is 0.63062  
Iteration 880: error is 0.63062  
Iteration 890: error is 0.63062  
Iteration 900: error is 0.63062  
Iteration 910: error is 0.63062  
Iteration 920: error is 0.63062  
Iteration 930: error is 0.63062  
Iteration 940: error is 0.63062  
Iteration 950: error is 0.63062  
Iteration 960: error is 0.63062  
Iteration 970: error is 0.63062  
Iteration 980: error is 0.63062  
Iteration 990: error is 0.63062  
Iteration 1000: error is 0.63062  
J\_new = 0.8700  
J\_new = 0.8374  
J\_new = 0.8208  
J\_new = 0.8095  
J\_new = 0.8059  
J\_new = 0.8011  
J\_new = 0.7853

```
J_new = 0.7431
J_new = 0.7416
J_new = 0.7424
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.4171
Iteration 20: error is 37.4417
Iteration 30: error is 36.8175
Iteration 40: error is 37.2257
Iteration 50: error is 36.8302
Iteration 60: error is 36.85
Iteration 70: error is 37.3092
Iteration 80: error is 37.6333
Iteration 90: error is 37.4798
Iteration 100: error is 2.2302
Iteration 110: error is 1.1695
Iteration 120: error is 0.77874
Iteration 130: error is 0.69816
Iteration 140: error is 0.6774
Iteration 150: error is 0.66643
```

Iteration	160:	error	is	0.65958
Iteration	170:	error	is	0.65561
Iteration	180:	error	is	0.6512
Iteration	190:	error	is	0.64838
Iteration	200:	error	is	0.64612
Iteration	210:	error	is	0.64438
Iteration	220:	error	is	0.64289
Iteration	230:	error	is	0.64169
Iteration	240:	error	is	0.64069
Iteration	250:	error	is	0.63979
Iteration	260:	error	is	0.63838
Iteration	270:	error	is	0.63691
Iteration	280:	error	is	0.63582
Iteration	290:	error	is	0.63501
Iteration	300:	error	is	0.63443
Iteration	310:	error	is	0.63397
Iteration	320:	error	is	0.63363
Iteration	330:	error	is	0.63334
Iteration	340:	error	is	0.63311
Iteration	350:	error	is	0.63291
Iteration	360:	error	is	0.63275



Iteration	370:	error	is	0.63261
Iteration	380:	error	is	0.63249
Iteration	390:	error	is	0.6324
Iteration	400:	error	is	0.63232
Iteration	410:	error	is	0.63225
Iteration	420:	error	is	0.63218
Iteration	430:	error	is	0.63213
Iteration	440:	error	is	0.63208
Iteration	450:	error	is	0.63204
Iteration	460:	error	is	0.632
Iteration	470:	error	is	0.63197
Iteration	480:	error	is	0.63194
Iteration	490:	error	is	0.63192
Iteration	500:	error	is	0.6319
Iteration	510:	error	is	0.63187
Iteration	520:	error	is	0.63185
Iteration	530:	error	is	0.63184
Iteration	540:	error	is	0.63182
Iteration	550:	error	is	0.63181
Iteration	560:	error	is	0.6318
Iteration	570:	error	is	0.63179

Iteration	580:	error	is	0.63178
Iteration	590:	error	is	0.63177
Iteration	600:	error	is	0.63176
Iteration	610:	error	is	0.63175
Iteration	620:	error	is	0.63175
Iteration	630:	error	is	0.63174
Iteration	640:	error	is	0.63173
Iteration	650:	error	is	0.63173
Iteration	660:	error	is	0.63172
Iteration	670:	error	is	0.63172
Iteration	680:	error	is	0.63172
Iteration	690:	error	is	0.63171
Iteration	700:	error	is	0.63171
Iteration	710:	error	is	0.63171
Iteration	720:	error	is	0.6317
Iteration	730:	error	is	0.6317
Iteration	740:	error	is	0.6317
Iteration	750:	error	is	0.6317
Iteration	760:	error	is	0.6317
Iteration	770:	error	is	0.63169
Iteration	780:	error	is	0.63169

Iteration 790: error is 0.63169  
Iteration 800: error is 0.63169  
Iteration 810: error is 0.63169  
Iteration 820: error is 0.63169  
Iteration 830: error is 0.63169  
Iteration 840: error is 0.63169  
Iteration 850: error is 0.63168  
Iteration 860: error is 0.63168  
Iteration 870: error is 0.63168  
Iteration 880: error is 0.63168  
Iteration 890: error is 0.63168  
Iteration 900: error is 0.63168  
Iteration 910: error is 0.63168  
Iteration 920: error is 0.63168  
Iteration 930: error is 0.63168  
Iteration 940: error is 0.63168  
Iteration 950: error is 0.63168  
Iteration 960: error is 0.63168  
Iteration 970: error is 0.63168  
Iteration 980: error is 0.63168  
Iteration 990: error is 0.63168

Iteration 1000: error is 0.63168

J\_new = 0.8612

J\_new = 0.8302

J\_new = 0.8155

J\_new = 0.8120

J\_new = 0.8106

J\_new = 0.8062

J\_new = 0.8014

J\_new = 0.7859

J\_new = 0.7439

J\_new = 0.7424

J\_new = 0.7432

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 38.6591

Iteration 20: error is 37.1042

Iteration 30: error is 36.8292

Iteration 40: error is 36.7095

Iteration 50: error is 36.9915

Iteration 60: error is 37.1214

Iteration 70: error is 37.2059  
Iteration 80: error is 37.5006  
Iteration 90: error is 37.7942  
Iteration 100: error is 2.2346  
Iteration 110: error is 1.3241  
Iteration 120: error is 1.0333  
Iteration 130: error is 0.95582  
Iteration 140: error is 0.87167  
Iteration 150: error is 0.84857  
Iteration 160: error is 0.7975  
Iteration 170: error is 0.75992  
Iteration 180: error is 0.70338  
Iteration 190: error is 0.66006  
Iteration 200: error is 0.65734  
Iteration 210: error is 0.65405  
Iteration 220: error is 0.65265  
Iteration 230: error is 0.65145  
Iteration 240: error is 0.65048  
Iteration 250: error is 0.64965  
Iteration 260: error is 0.64832  
Iteration 270: error is 0.64691

Iteration	280:	error	is	0.64583
Iteration	290:	error	is	0.64504
Iteration	300:	error	is	0.64444
Iteration	310:	error	is	0.64396
Iteration	320:	error	is	0.64358
Iteration	330:	error	is	0.64328
Iteration	340:	error	is	0.64303
Iteration	350:	error	is	0.64283
Iteration	360:	error	is	0.64266
Iteration	370:	error	is	0.64252
Iteration	380:	error	is	0.6424
Iteration	390:	error	is	0.6423
Iteration	400:	error	is	0.64221
Iteration	410:	error	is	0.64214
Iteration	420:	error	is	0.64208
Iteration	430:	error	is	0.64202
Iteration	440:	error	is	0.64198
Iteration	450:	error	is	0.64193
Iteration	460:	error	is	0.6419
Iteration	470:	error	is	0.64187
Iteration	480:	error	is	0.64184

Iteration	490:	error	is	0.64181
Iteration	500:	error	is	0.64179
Iteration	510:	error	is	0.64177
Iteration	520:	error	is	0.64176
Iteration	530:	error	is	0.64174
Iteration	540:	error	is	0.64173
Iteration	550:	error	is	0.64172
Iteration	560:	error	is	0.64171
Iteration	570:	error	is	0.6417
Iteration	580:	error	is	0.64169
Iteration	590:	error	is	0.64169
Iteration	600:	error	is	0.64168
Iteration	610:	error	is	0.64167
Iteration	620:	error	is	0.64167
Iteration	630:	error	is	0.64167
Iteration	640:	error	is	0.64166
Iteration	650:	error	is	0.64166
Iteration	660:	error	is	0.64165
Iteration	670:	error	is	0.64165
Iteration	680:	error	is	0.64165
Iteration	690:	error	is	0.64165

Iteration 700: error is 0.64164  
Iteration 710: error is 0.64164  
Iteration 720: error is 0.64164  
Iteration 730: error is 0.64164  
Iteration 740: error is 0.64164  
Iteration 750: error is 0.64164  
Iteration 760: error is 0.64164  
Iteration 770: error is 0.64164  
Iteration 780: error is 0.64163  
Iteration 790: error is 0.64163  
Iteration 800: error is 0.64163  
Iteration 810: error is 0.64163  
Iteration 820: error is 0.64163  
Iteration 830: error is 0.64163  
Iteration 840: error is 0.64163  
Iteration 850: error is 0.64163  
Iteration 860: error is 0.64163  
Iteration 870: error is 0.64163  
Iteration 880: error is 0.64163  
Iteration 890: error is 0.64163  
Iteration 900: error is 0.64163



Iteration 910: error is 0.64163  
Iteration 920: error is 0.64163  
Iteration 930: error is 0.64163  
Iteration 940: error is 0.64163  
Iteration 950: error is 0.64163  
Iteration 960: error is 0.64163  
Iteration 970: error is 0.64163  
Iteration 980: error is 0.64163  
Iteration 990: error is 0.64163  
Iteration 1000: error is 0.64163  
J\_new = 0.8433  
J\_new = 0.8274  
J\_new = 0.8164  
J\_new = 0.8143  
J\_new = 0.8118  
J\_new = 0.8075  
J\_new = 0.8059  
J\_new = 0.8014  
J\_new = 0.7861  
J\_new = 0.7421  
J\_new = 0.7426

Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.4171  
Iteration 20: error is 36.8787  
Iteration 30: error is 37.1461  
Iteration 40: error is 36.535  
Iteration 50: error is 36.184  
Iteration 60: error is 37.7389  
Iteration 70: error is 37.4823  
Iteration 80: error is 37.0722  
Iteration 90: error is 37.1735  
Iteration 100: error is 2.1321  
Iteration 110: error is 1.332  
Iteration 120: error is 0.84776  
Iteration 130: error is 0.72719  
Iteration 140: error is 0.71149  
Iteration 150: error is 0.70123  
Iteration 160: error is 0.69554  
Iteration 170: error is 0.69119  
Iteration 180: error is 0.68799

Iteration	190:	error	is	0.68548
Iteration	200:	error	is	0.68348
Iteration	210:	error	is	0.68193
Iteration	220:	error	is	0.68056
Iteration	230:	error	is	0.67944
Iteration	240:	error	is	0.67852
Iteration	250:	error	is	0.67774
Iteration	260:	error	is	0.67651
Iteration	270:	error	is	0.67515
Iteration	280:	error	is	0.67417
Iteration	290:	error	is	0.67353
Iteration	300:	error	is	0.67303
Iteration	310:	error	is	0.67262
Iteration	320:	error	is	0.67232
Iteration	330:	error	is	0.67207
Iteration	340:	error	is	0.67187
Iteration	350:	error	is	0.67172
Iteration	360:	error	is	0.6716
Iteration	370:	error	is	0.67149
Iteration	380:	error	is	0.6714
Iteration	390:	error	is	0.67133

Iteration	400:	error	is	0.67126
Iteration	410:	error	is	0.67121
Iteration	420:	error	is	0.67117
Iteration	430:	error	is	0.67113
Iteration	440:	error	is	0.6711
Iteration	450:	error	is	0.67108
Iteration	460:	error	is	0.67105
Iteration	470:	error	is	0.67104
Iteration	480:	error	is	0.67102
Iteration	490:	error	is	0.67101
Iteration	500:	error	is	0.67099
Iteration	510:	error	is	0.67098
Iteration	520:	error	is	0.67097
Iteration	530:	error	is	0.67097
Iteration	540:	error	is	0.67096
Iteration	550:	error	is	0.67095
Iteration	560:	error	is	0.67095
Iteration	570:	error	is	0.67094
Iteration	580:	error	is	0.67094
Iteration	590:	error	is	0.67094
Iteration	600:	error	is	0.67093

Iteration 610: error is 0.67093  
Iteration 620: error is 0.67093  
Iteration 630: error is 0.67093  
Iteration 640: error is 0.67093  
Iteration 650: error is 0.67092  
Iteration 660: error is 0.67092  
Iteration 670: error is 0.67092  
Iteration 680: error is 0.67092  
Iteration 690: error is 0.67092  
Iteration 700: error is 0.67092  
Iteration 710: error is 0.67092  
Iteration 720: error is 0.67092  
Iteration 730: error is 0.67092  
Iteration 740: error is 0.67092  
Iteration 750: error is 0.67092  
Iteration 760: error is 0.67092  
Iteration 770: error is 0.67092  
Iteration 780: error is 0.67092  
Iteration 790: error is 0.67092  
Iteration 800: error is 0.67092  
Iteration 810: error is 0.67092

Iteration 820: error is 0.67092  
Iteration 830: error is 0.67092  
Iteration 840: error is 0.67092  
Iteration 850: error is 0.67092  
Iteration 860: error is 0.67092  
Iteration 870: error is 0.67091  
Iteration 880: error is 0.67091  
Iteration 890: error is 0.67091  
Iteration 900: error is 0.67091  
Iteration 910: error is 0.67091  
Iteration 920: error is 0.67091  
Iteration 930: error is 0.67091  
Iteration 940: error is 0.67091  
Iteration 950: error is 0.67091  
Iteration 960: error is 0.67091  
Iteration 970: error is 0.67091  
Iteration 980: error is 0.67091  
Iteration 990: error is 0.67091  
Iteration 1000: error is 0.67091  
J\_new = 0.8365  
J\_new = 0.8285

```
J_new = 0.8278
J_new = 0.8255
J_new = 0.8202
J_new = 0.8184
J_new = 0.8177
J_new = 0.8162
J_new = 0.8144
J_new = 0.8133
J_new = 0.8128
J_new = 0.8128
J_new = 0.8126
J_new = 0.8127
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.2249
Iteration 20: error is 37.4246
Iteration 30: error is 36.9642
Iteration 40: error is 37.1386
Iteration 50: error is 37.3022
Iteration 60: error is 37.0743
```

Iteration 70: error is 36.9794  
Iteration 80: error is 37.3192  
Iteration 90: error is 37.3301  
Iteration 100: error is 2.2479  
Iteration 110: error is 1.354  
Iteration 120: error is 0.97987  
Iteration 130: error is 0.85149  
Iteration 140: error is 0.7614  
Iteration 150: error is 0.69913  
Iteration 160: error is 0.68339  
Iteration 170: error is 0.66191  
Iteration 180: error is 0.65554  
Iteration 190: error is 0.65296  
Iteration 200: error is 0.65093  
Iteration 210: error is 0.64918  
Iteration 220: error is 0.64772  
Iteration 230: error is 0.64653  
Iteration 240: error is 0.6455  
Iteration 250: error is 0.64462  
Iteration 260: error is 0.64318  
Iteration 270: error is 0.64164



Iteration	280:	error	is	0.64051
Iteration	290:	error	is	0.63968
Iteration	300:	error	is	0.63905
Iteration	310:	error	is	0.63855
Iteration	320:	error	is	0.63816
Iteration	330:	error	is	0.63784
Iteration	340:	error	is	0.63758
Iteration	350:	error	is	0.63738
Iteration	360:	error	is	0.6372
Iteration	370:	error	is	0.63706
Iteration	380:	error	is	0.63694
Iteration	390:	error	is	0.63684
Iteration	400:	error	is	0.63675
Iteration	410:	error	is	0.63668
Iteration	420:	error	is	0.63661
Iteration	430:	error	is	0.63656
Iteration	440:	error	is	0.63651
Iteration	450:	error	is	0.63647
Iteration	460:	error	is	0.63643
Iteration	470:	error	is	0.6364
Iteration	480:	error	is	0.63638

Iteration	490:	error	is	0.63635
Iteration	500:	error	is	0.63633
Iteration	510:	error	is	0.63631
Iteration	520:	error	is	0.63629
Iteration	530:	error	is	0.63628
Iteration	540:	error	is	0.63627
Iteration	550:	error	is	0.63625
Iteration	560:	error	is	0.63624
Iteration	570:	error	is	0.63624
Iteration	580:	error	is	0.63623
Iteration	590:	error	is	0.63622
Iteration	600:	error	is	0.63621
Iteration	610:	error	is	0.63621
Iteration	620:	error	is	0.6362
Iteration	630:	error	is	0.6362
Iteration	640:	error	is	0.63619
Iteration	650:	error	is	0.63619
Iteration	660:	error	is	0.63619
Iteration	670:	error	is	0.63618
Iteration	680:	error	is	0.63618
Iteration	690:	error	is	0.63618

Iteration	700:	error	is	0.63618
Iteration	710:	error	is	0.63617
Iteration	720:	error	is	0.63617
Iteration	730:	error	is	0.63617
Iteration	740:	error	is	0.63617
Iteration	750:	error	is	0.63617
Iteration	760:	error	is	0.63617
Iteration	770:	error	is	0.63617
Iteration	780:	error	is	0.63617
Iteration	790:	error	is	0.63616
Iteration	800:	error	is	0.63616
Iteration	810:	error	is	0.63616
Iteration	820:	error	is	0.63616
Iteration	830:	error	is	0.63616
Iteration	840:	error	is	0.63616
Iteration	850:	error	is	0.63616
Iteration	860:	error	is	0.63616
Iteration	870:	error	is	0.63616
Iteration	880:	error	is	0.63616
Iteration	890:	error	is	0.63616
Iteration	900:	error	is	0.63616

Iteration 910: error is 0.63616  
Iteration 920: error is 0.63616  
Iteration 930: error is 0.63616  
Iteration 940: error is 0.63616  
Iteration 950: error is 0.63616  
Iteration 960: error is 0.63616  
Iteration 970: error is 0.63616  
Iteration 980: error is 0.63616  
Iteration 990: error is 0.63616  
Iteration 1000: error is 0.63616  
J\_new = 0.8521  
J\_new = 0.8277  
J\_new = 0.8172  
J\_new = 0.8152  
J\_new = 0.8148  
J\_new = 0.8110  
J\_new = 0.8092  
J\_new = 0.8054  
J\_new = 0.8036  
J\_new = 0.7898  
J\_new = 0.7825

J\_new = 0.7420

J\_new = 0.7429

Mean value of sigma: 0.16017

Minimum value of sigma: 0.1114

Maximum value of sigma: 0.27312

Iteration 10: error is 38.7468

Iteration 20: error is 36.8331

Iteration 30: error is 36.8245

Iteration 40: error is 36.1705

Iteration 50: error is 36.5223

Iteration 60: error is 37.0641

Iteration 70: error is 37.5226

Iteration 80: error is 37.6583

Iteration 90: error is 37.6131

Iteration 100: error is 2.3328

Iteration 110: error is 1.3803

Iteration 120: error is 0.95813

Iteration 130: error is 0.83919

Iteration 140: error is 0.81479

Iteration 150: error is 0.78794

Iteration 160: error is 0.6823

Iteration	170:	error	is	0.68505
Iteration	180:	error	is	0.66006
Iteration	190:	error	is	0.65615
Iteration	200:	error	is	0.65433
Iteration	210:	error	is	0.65285
Iteration	220:	error	is	0.65138
Iteration	230:	error	is	0.65033
Iteration	240:	error	is	0.64949
Iteration	250:	error	is	0.64867
Iteration	260:	error	is	0.64748
Iteration	270:	error	is	0.64614
Iteration	280:	error	is	0.64516
Iteration	290:	error	is	0.64444
Iteration	300:	error	is	0.64388
Iteration	310:	error	is	0.64345
Iteration	320:	error	is	0.64311
Iteration	330:	error	is	0.64283
Iteration	340:	error	is	0.6426
Iteration	350:	error	is	0.64242
Iteration	360:	error	is	0.64227
Iteration	370:	error	is	0.64213

Iteration	380:	error	is	0.64203
Iteration	390:	error	is	0.64194
Iteration	400:	error	is	0.64186
Iteration	410:	error	is	0.64179
Iteration	420:	error	is	0.64173
Iteration	430:	error	is	0.64168
Iteration	440:	error	is	0.64163
Iteration	450:	error	is	0.64159
Iteration	460:	error	is	0.64155
Iteration	470:	error	is	0.64152
Iteration	480:	error	is	0.6415
Iteration	490:	error	is	0.64147
Iteration	500:	error	is	0.64145
Iteration	510:	error	is	0.64143
Iteration	520:	error	is	0.64141
Iteration	530:	error	is	0.6414
Iteration	540:	error	is	0.64138
Iteration	550:	error	is	0.64137
Iteration	560:	error	is	0.64136
Iteration	570:	error	is	0.64135
Iteration	580:	error	is	0.64134

Iteration	590:	error	is	0.64133
Iteration	600:	error	is	0.64132
Iteration	610:	error	is	0.64131
Iteration	620:	error	is	0.64131
Iteration	630:	error	is	0.6413
Iteration	640:	error	is	0.6413
Iteration	650:	error	is	0.64129
Iteration	660:	error	is	0.64129
Iteration	670:	error	is	0.64128
Iteration	680:	error	is	0.64128
Iteration	690:	error	is	0.64128
Iteration	700:	error	is	0.64127
Iteration	710:	error	is	0.64127
Iteration	720:	error	is	0.64127
Iteration	730:	error	is	0.64127
Iteration	740:	error	is	0.64126
Iteration	750:	error	is	0.64126
Iteration	760:	error	is	0.64126
Iteration	770:	error	is	0.64126
Iteration	780:	error	is	0.64126
Iteration	790:	error	is	0.64126



Iteration 800: error is 0.64126  
Iteration 810: error is 0.64125  
Iteration 820: error is 0.64125  
Iteration 830: error is 0.64125  
Iteration 840: error is 0.64125  
Iteration 850: error is 0.64125  
Iteration 860: error is 0.64125  
Iteration 870: error is 0.64125  
Iteration 880: error is 0.64125  
Iteration 890: error is 0.64125  
Iteration 900: error is 0.64125  
Iteration 910: error is 0.64125  
Iteration 920: error is 0.64125  
Iteration 930: error is 0.64125  
Iteration 940: error is 0.64124  
Iteration 950: error is 0.64124  
Iteration 960: error is 0.64124  
Iteration 970: error is 0.64124  
Iteration 980: error is 0.64124  
Iteration 990: error is 0.64124  
Iteration 1000: error is 0.64124

```
J_new = 0.8343
J_new = 0.8193
J_new = 0.8173
J_new = 0.8169
J_new = 0.8148
J_new = 0.8142
J_new = 0.8107
J_new = 0.8088
J_new = 0.8052
J_new = 0.8031
J_new = 0.7896
J_new = 0.7820
J_new = 0.7418
J_new = 0.7425
Mean value of sigma: 0.16017
Minimum value of sigma: 0.1114
Maximum value of sigma: 0.27312
Iteration 10: error is 39.6643
Iteration 20: error is 37.566
Iteration 30: error is 37.1751
Iteration 40: error is 37.2269
```

Iteration 50: error is 36.825  
Iteration 60: error is 37.545  
Iteration 70: error is 37.6106  
Iteration 80: error is 37.3548  
Iteration 90: error is 38.0102  
Iteration 100: error is 2.2847  
Iteration 110: error is 1.2909  
Iteration 120: error is 0.90305  
Iteration 130: error is 0.80821  
Iteration 140: error is 0.74403  
Iteration 150: error is 0.70156  
Iteration 160: error is 0.69533  
Iteration 170: error is 0.69003  
Iteration 180: error is 0.68682  
Iteration 190: error is 0.67397  
Iteration 200: error is 0.66848  
Iteration 210: error is 0.66674  
Iteration 220: error is 0.66507  
Iteration 230: error is 0.65848  
Iteration 240: error is 0.65162  
Iteration 250: error is 0.65063

Iteration	260:	error	is	0.64916
Iteration	270:	error	is	0.64764
Iteration	280:	error	is	0.6465
Iteration	290:	error	is	0.64556
Iteration	300:	error	is	0.64495
Iteration	310:	error	is	0.64447
Iteration	320:	error	is	0.64408
Iteration	330:	error	is	0.64317
Iteration	340:	error	is	0.64285
Iteration	350:	error	is	0.64264
Iteration	360:	error	is	0.64248
Iteration	370:	error	is	0.64234
Iteration	380:	error	is	0.64221
Iteration	390:	error	is	0.64211
Iteration	400:	error	is	0.64202
Iteration	410:	error	is	0.64194
Iteration	420:	error	is	0.64188
Iteration	430:	error	is	0.64182
Iteration	440:	error	is	0.64177
Iteration	450:	error	is	0.64173
Iteration	460:	error	is	0.64169

Iteration	470:	error	is	0.64166
Iteration	480:	error	is	0.64164
Iteration	490:	error	is	0.64161
Iteration	500:	error	is	0.64159
Iteration	510:	error	is	0.64157
Iteration	520:	error	is	0.64156
Iteration	530:	error	is	0.64154
Iteration	540:	error	is	0.64153
Iteration	550:	error	is	0.64152
Iteration	560:	error	is	0.64151
Iteration	570:	error	is	0.6415
Iteration	580:	error	is	0.64149
Iteration	590:	error	is	0.64148
Iteration	600:	error	is	0.64148
Iteration	610:	error	is	0.64147
Iteration	620:	error	is	0.64147
Iteration	630:	error	is	0.64146
Iteration	640:	error	is	0.64146
Iteration	650:	error	is	0.64145
Iteration	660:	error	is	0.64145
Iteration	670:	error	is	0.64145

Iteration	680:	error	is	0.64145
Iteration	690:	error	is	0.64144
Iteration	700:	error	is	0.64144
Iteration	710:	error	is	0.64144
Iteration	720:	error	is	0.64144
Iteration	730:	error	is	0.64144
Iteration	740:	error	is	0.64144
Iteration	750:	error	is	0.64143
Iteration	760:	error	is	0.64143
Iteration	770:	error	is	0.64143
Iteration	780:	error	is	0.64143
Iteration	790:	error	is	0.64143
Iteration	800:	error	is	0.64143
Iteration	810:	error	is	0.64143
Iteration	820:	error	is	0.64143
Iteration	830:	error	is	0.64143
Iteration	840:	error	is	0.64143
Iteration	850:	error	is	0.64143
Iteration	860:	error	is	0.64143
Iteration	870:	error	is	0.64143
Iteration	880:	error	is	0.64143

Iteration 890: error is 0.64143  
Iteration 900: error is 0.64143  
Iteration 910: error is 0.64143  
Iteration 920: error is 0.64143  
Iteration 930: error is 0.64142  
Iteration 940: error is 0.64142  
Iteration 950: error is 0.64142  
Iteration 960: error is 0.64142  
Iteration 970: error is 0.64142  
Iteration 980: error is 0.64142  
Iteration 990: error is 0.64142  
Iteration 1000: error is 0.64142  
J\_new = 0.7926  
J\_new = 0.7669  
J\_new = 0.7505  
J\_new = 0.7395  
J\_new = 0.7386  
J\_new = 0.7396  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312

Iteration 10: error is 39.8524  
Iteration 20: error is 37.203  
Iteration 30: error is 37.1345  
Iteration 40: error is 37.2295  
Iteration 50: error is 36.9972  
Iteration 60: error is 37.2935  
Iteration 70: error is 37.1445  
Iteration 80: error is 37.4572  
Iteration 90: error is 37.6041  
Iteration 100: error is 2.2977  
Iteration 110: error is 1.3045  
Iteration 120: error is 0.89075  
Iteration 130: error is 0.79401  
Iteration 140: error is 0.71088  
Iteration 150: error is 0.68502  
Iteration 160: error is 0.67837  
Iteration 170: error is 0.66206  
Iteration 180: error is 0.6581  
Iteration 190: error is 0.6554  
Iteration 200: error is 0.65297  
Iteration 210: error is 0.65123



Iteration	220:	error	is	0.6498
Iteration	230:	error	is	0.64843
Iteration	240:	error	is	0.6474
Iteration	250:	error	is	0.64651
Iteration	260:	error	is	0.64511
Iteration	270:	error	is	0.64365
Iteration	280:	error	is	0.6426
Iteration	290:	error	is	0.64181
Iteration	300:	error	is	0.64122
Iteration	310:	error	is	0.64077
Iteration	320:	error	is	0.64042
Iteration	330:	error	is	0.64015
Iteration	340:	error	is	0.63992
Iteration	350:	error	is	0.63974
Iteration	360:	error	is	0.63959
Iteration	370:	error	is	0.63947
Iteration	380:	error	is	0.63937
Iteration	390:	error	is	0.63929
Iteration	400:	error	is	0.63921
Iteration	410:	error	is	0.63915
Iteration	420:	error	is	0.6391

Iteration	430:	error	is	0.63905
Iteration	440:	error	is	0.63902
Iteration	450:	error	is	0.63898
Iteration	460:	error	is	0.63896
Iteration	470:	error	is	0.63893
Iteration	480:	error	is	0.63891
Iteration	490:	error	is	0.63889
Iteration	500:	error	is	0.63888
Iteration	510:	error	is	0.63887
Iteration	520:	error	is	0.63885
Iteration	530:	error	is	0.63884
Iteration	540:	error	is	0.63883
Iteration	550:	error	is	0.63883
Iteration	560:	error	is	0.63882
Iteration	570:	error	is	0.63881
Iteration	580:	error	is	0.63881
Iteration	590:	error	is	0.6388
Iteration	600:	error	is	0.6388
Iteration	610:	error	is	0.6388
Iteration	620:	error	is	0.63879
Iteration	630:	error	is	0.63879

Iteration	640:	error	is	0.63879
Iteration	650:	error	is	0.63879
Iteration	660:	error	is	0.63878
Iteration	670:	error	is	0.63878
Iteration	680:	error	is	0.63878
Iteration	690:	error	is	0.63878
Iteration	700:	error	is	0.63878
Iteration	710:	error	is	0.63878
Iteration	720:	error	is	0.63878
Iteration	730:	error	is	0.63877
Iteration	740:	error	is	0.63877
Iteration	750:	error	is	0.63877
Iteration	760:	error	is	0.63877
Iteration	770:	error	is	0.63877
Iteration	780:	error	is	0.63877
Iteration	790:	error	is	0.63877
Iteration	800:	error	is	0.63877
Iteration	810:	error	is	0.63877
Iteration	820:	error	is	0.63877
Iteration	830:	error	is	0.63877
Iteration	840:	error	is	0.63877

```
Iteration 850: error is 0.63877
Iteration 860: error is 0.63877
Iteration 870: error is 0.63877
Iteration 880: error is 0.63877
Iteration 890: error is 0.63877
Iteration 900: error is 0.63877
Iteration 910: error is 0.63877
Iteration 920: error is 0.63877
Iteration 930: error is 0.63877
Iteration 940: error is 0.63877
Iteration 950: error is 0.63877
Iteration 960: error is 0.63877
Iteration 970: error is 0.63877
Iteration 980: error is 0.63877
Iteration 990: error is 0.63877
Iteration 1000: error is 0.63877
J_new = 0.8322
J_new = 0.8189
J_new = 0.8151
J_new = 0.8127
J_new = 0.8091
```

J\_new = 0.8067  
J\_new = 0.7999  
J\_new = 0.7862  
J\_new = 0.7422  
J\_new = 0.7425  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 38.4837  
Iteration 20: error is 37.0391  
Iteration 30: error is 36.8406  
Iteration 40: error is 36.7153  
Iteration 50: error is 36.7781  
Iteration 60: error is 36.465  
Iteration 70: error is 37.3021  
Iteration 80: error is 37.3999  
Iteration 90: error is 37.0042  
Iteration 100: error is 2.194  
Iteration 110: error is 1.1954  
Iteration 120: error is 0.83884  
Iteration 130: error is 0.71019

Iteration	140:	error	is	0.68976
Iteration	150:	error	is	0.67965
Iteration	160:	error	is	0.6734
Iteration	170:	error	is	0.66825
Iteration	180:	error	is	0.66305
Iteration	190:	error	is	0.66041
Iteration	200:	error	is	0.65831
Iteration	210:	error	is	0.65669
Iteration	220:	error	is	0.65525
Iteration	230:	error	is	0.65412
Iteration	240:	error	is	0.65313
Iteration	250:	error	is	0.65225
Iteration	260:	error	is	0.65093
Iteration	270:	error	is	0.64942
Iteration	280:	error	is	0.64836
Iteration	290:	error	is	0.64758
Iteration	300:	error	is	0.647
Iteration	310:	error	is	0.64656
Iteration	320:	error	is	0.64621
Iteration	330:	error	is	0.64596
Iteration	340:	error	is	0.64571

Iteration	350:	error	is	0.64555
Iteration	360:	error	is	0.6454
Iteration	370:	error	is	0.64528
Iteration	380:	error	is	0.64518
Iteration	390:	error	is	0.64509
Iteration	400:	error	is	0.64501
Iteration	410:	error	is	0.64495
Iteration	420:	error	is	0.64489
Iteration	430:	error	is	0.64484
Iteration	440:	error	is	0.6448
Iteration	450:	error	is	0.64477
Iteration	460:	error	is	0.64474
Iteration	470:	error	is	0.64471
Iteration	480:	error	is	0.64469
Iteration	490:	error	is	0.64467
Iteration	500:	error	is	0.64465
Iteration	510:	error	is	0.64463
Iteration	520:	error	is	0.64462
Iteration	530:	error	is	0.64461
Iteration	540:	error	is	0.6446
Iteration	550:	error	is	0.64459

Iteration	560:	error	is	0.64458
Iteration	570:	error	is	0.64457
Iteration	580:	error	is	0.64457
Iteration	590:	error	is	0.64456
Iteration	600:	error	is	0.64456
Iteration	610:	error	is	0.64455
Iteration	620:	error	is	0.64455
Iteration	630:	error	is	0.64454
Iteration	640:	error	is	0.64454
Iteration	650:	error	is	0.64454
Iteration	660:	error	is	0.64454
Iteration	670:	error	is	0.64453
Iteration	680:	error	is	0.64453
Iteration	690:	error	is	0.64453
Iteration	700:	error	is	0.64453
Iteration	710:	error	is	0.64453
Iteration	720:	error	is	0.64453
Iteration	730:	error	is	0.64453
Iteration	740:	error	is	0.64452
Iteration	750:	error	is	0.64452
Iteration	760:	error	is	0.64452



Iteration 770: error is 0.64452  
Iteration 780: error is 0.64452  
Iteration 790: error is 0.64452  
Iteration 800: error is 0.64452  
Iteration 810: error is 0.64452  
Iteration 820: error is 0.64452  
Iteration 830: error is 0.64452  
Iteration 840: error is 0.64452  
Iteration 850: error is 0.64452  
Iteration 860: error is 0.64452  
Iteration 870: error is 0.64452  
Iteration 880: error is 0.64452  
Iteration 890: error is 0.64452  
Iteration 900: error is 0.64452  
Iteration 910: error is 0.64452  
Iteration 920: error is 0.64452  
Iteration 930: error is 0.64452  
Iteration 940: error is 0.64452  
Iteration 950: error is 0.64452  
Iteration 960: error is 0.64452  
Iteration 970: error is 0.64452

Iteration 980: error is 0.64452  
Iteration 990: error is 0.64452  
Iteration 1000: error is 0.64452  
J\_new = 0.8666  
J\_new = 0.8373  
J\_new = 0.8246  
J\_new = 0.8155  
J\_new = 0.8137  
J\_new = 0.8116  
J\_new = 0.8079  
J\_new = 0.8061  
J\_new = 0.8022  
J\_new = 0.7905  
J\_new = 0.7811  
J\_new = 0.7427  
J\_new = 0.7416  
J\_new = 0.7424  
Mean value of sigma: 0.16017  
Minimum value of sigma: 0.1114  
Maximum value of sigma: 0.27312  
Iteration 10: error is 39.7067

Iteration 20: error is 36.7748  
Iteration 30: error is 36.5686  
Iteration 40: error is 36.8591  
Iteration 50: error is 37.1208  
Iteration 60: error is 37.0643  
Iteration 70: error is 37.0864  
Iteration 80: error is 36.996  
Iteration 90: error is 37.5749  
Iteration 100: error is 2.2757  
Iteration 110: error is 1.248  
Iteration 120: error is 1.0093  
Iteration 130: error is 0.83581  
Iteration 140: error is 0.76915  
Iteration 150: error is 0.67477  
Iteration 160: error is 0.65931  
Iteration 170: error is 0.65522  
Iteration 180: error is 0.65188  
Iteration 190: error is 0.64933  
Iteration 200: error is 0.64723  
Iteration 210: error is 0.64557  
Iteration 220: error is 0.64411

Iteration	230:	error	is	0.64288
Iteration	240:	error	is	0.64181
Iteration	250:	error	is	0.64092
Iteration	260:	error	is	0.6395
Iteration	270:	error	is	0.6379
Iteration	280:	error	is	0.63675
Iteration	290:	error	is	0.63591
Iteration	300:	error	is	0.63527
Iteration	310:	error	is	0.63476
Iteration	320:	error	is	0.63437
Iteration	330:	error	is	0.63405
Iteration	340:	error	is	0.63379
Iteration	350:	error	is	0.63358
Iteration	360:	error	is	0.63341
Iteration	370:	error	is	0.63326
Iteration	380:	error	is	0.63314
Iteration	390:	error	is	0.63304
Iteration	400:	error	is	0.63296
Iteration	410:	error	is	0.63288
Iteration	420:	error	is	0.63283
Iteration	430:	error	is	0.63277

Iteration	440:	error	is	0.63272
Iteration	450:	error	is	0.63268
Iteration	460:	error	is	0.63264
Iteration	470:	error	is	0.63261
Iteration	480:	error	is	0.63259
Iteration	490:	error	is	0.63256
Iteration	500:	error	is	0.63254
Iteration	510:	error	is	0.63253
Iteration	520:	error	is	0.63251
Iteration	530:	error	is	0.63249
Iteration	540:	error	is	0.63248
Iteration	550:	error	is	0.63247
Iteration	560:	error	is	0.63246
Iteration	570:	error	is	0.63245
Iteration	580:	error	is	0.63244
Iteration	590:	error	is	0.63244
Iteration	600:	error	is	0.63243
Iteration	610:	error	is	0.63243
Iteration	620:	error	is	0.63242
Iteration	630:	error	is	0.63242
Iteration	640:	error	is	0.63241

Iteration 650: error is 0.63241  
Iteration 660: error is 0.63241  
Iteration 670: error is 0.6324  
Iteration 680: error is 0.6324  
Iteration 690: error is 0.6324  
Iteration 700: error is 0.6324  
Iteration 710: error is 0.6324  
Iteration 720: error is 0.63239  
Iteration 730: error is 0.63239  
Iteration 740: error is 0.63239  
Iteration 750: error is 0.63239  
Iteration 760: error is 0.63239  
Iteration 770: error is 0.63239  
Iteration 780: error is 0.63239  
Iteration 790: error is 0.63239  
Iteration 800: error is 0.63239  
Iteration 810: error is 0.63239  
Iteration 820: error is 0.63239  
Iteration 830: error is 0.63238  
Iteration 840: error is 0.63238  
Iteration 850: error is 0.63238

Iteration 860: error is 0.63238  
Iteration 870: error is 0.63238  
Iteration 880: error is 0.63238  
Iteration 890: error is 0.63238  
Iteration 900: error is 0.63238  
Iteration 910: error is 0.63238  
Iteration 920: error is 0.63238  
Iteration 930: error is 0.63238  
Iteration 940: error is 0.63238  
Iteration 950: error is 0.63238  
Iteration 960: error is 0.63238  
Iteration 970: error is 0.63238  
Iteration 980: error is 0.63238  
Iteration 990: error is 0.63238  
Iteration 1000: error is 0.63238  
J\_new = 0.8447  
J\_new = 0.8272  
J\_new = 0.8162  
J\_new = 0.8142  
J\_new = 0.8120  
J\_new = 0.8081

J\_new = 0.8065  
J\_new = 0.8025  
J\_new = 0.7909  
J\_new = 0.7814  
J\_new = 0.7431  
J\_new = 0.7419  
J\_new = 0.7428  
E\_best = 0.1402

Iteration	Func-count	f(x)
0	1	0.763527
1	5	0.754017
2	6	0.7327
3	7	0.716599
4	9	0.710581
5	10	0.70728
6	11	0.701632
7	13	0.699183
8	15	0.695828
9	17	0.694815
10	19	0.692125



11	21	0.688459
12	23	0.687298
13	24	0.685379
14	26	0.684276
15	28	0.68322
16	30	0.682079
17	31	0.68096
18	32	0.680441
19	33	0.679827

Iteration	Func-count	$f(x)$
20	34	0.679743
21	35	0.678852
22	37	0.678291
23	39	0.677977
24	40	0.677868
25	41	0.677457
26	43	0.677229
27	44	0.676911
28	45	0.676151
29	47	0.675785

30	49	0.675166
31	50	0.674646
32	52	0.674318
33	53	0.674101
34	54	0.673865
35	56	0.673771
36	57	0.673623
37	58	0.673436
38	59	0.673269
39	60	0.67315

Iteration	Func-count	$f(x)$
40	61	0.67287
41	63	0.672619
42	66	0.672462
43	68	0.672321
44	69	0.672167
45	70	0.671922
46	71	0.67165
47	72	0.671373
48	73	0.671034

49	75	0.670714
50	76	0.670665
51	77	0.670606
52	78	0.670033
53	79	0.66992
54	80	0.669658
55	82	0.669227
56	84	0.669128
57	85	0.668933
58	87	0.668726
59	88	0.668616

Iteration	Func-count	$f(x)$
60	89	0.668598
61	90	0.668548
62	91	0.668467
63	94	0.668001
64	96	0.667962
65	97	0.667635
66	98	0.667501
67	99	0.667445

68	100	0.667408
69	101	0.667376
70	102	0.667324
71	104	0.667243
72	105	0.66721
73	106	0.667159
74	107	0.667107
75	109	0.667033
76	111	0.667006
77	112	0.666981
78	113	0.666959
79	114	0.666944

Iteration	Func-count	f(x)
80	115	0.66692
81	116	0.666816
82	118	0.666803
83	119	0.666747
84	120	0.666713
85	121	0.666705
86	122	0.666697

87	123	0.666686
88	124	0.666673
89	125	0.666646
90	126	0.66663
91	127	0.666608
92	128	0.666597
93	129	0.66658
94	132	0.666521
95	134	0.666509
96	135	0.666458
97	136	0.666404
98	137	0.666371
99	138	0.666364

Iteration	Func-count	f(x)
100	139	0.666359
101	140	0.666357
102	141	0.666355
103	142	0.66635
104	143	0.666344
105	144	0.666338

106	145	0.666332
107	146	0.666324
108	147	0.66632
109	148	0.666315
110	149	0.666313
111	150	0.66631
112	151	0.666305
113	152	0.666298
114	153	0.666284
115	154	0.66627
116	155	0.666236
117	157	0.666131
118	159	0.666119
119	160	0.66605

Iteration	Func-count	$f(x)$
120	161	0.665988
121	162	0.665951
122	163	0.665923
123	164	0.665899
124	165	0.665878

125	166	0.665861
126	171	0.665683
127	174	0.665679
128	175	0.665588
129	176	0.665506
130	177	0.66549
131	178	0.665483
132	179	0.665479
133	180	0.665476
134	181	0.665473
135	182	0.665471
136	183	0.665468
137	184	0.665462
138	185	0.665453
139	187	0.665442

Iteration	Func-count	$f(x)$
140	188	0.665427
141	189	0.665417
142	190	0.665396
143	191	0.665387

144	192	0.665376
145	194	0.665355
146	196	0.665345
147	197	0.665333
148	198	0.665327
149	199	0.665325
150	200	0.665322
151	201	0.665318
152	206	0.665272
153	209	0.665269
154	210	0.665224
155	211	0.66517
156	212	0.665154
157	213	0.665144
158	219	0.66503
159	222	0.665024

Iteration	Func-count	$f(x)$
160	223	0.664884
161	224	0.664843
162	225	0.664829



163	226	0.664823
164	227	0.664819
165	228	0.664811
166	236	0.664597
167	240	0.664596
168	241	0.66452
169	242	0.664396
170	243	0.664376
171	244	0.664371
172	245	0.664368
173	246	0.664367
174	247	0.664365
175	248	0.664364
176	249	0.664363
177	250	0.664361
178	251	0.664359
179	252	0.664357

Iteration	Func-count	f(x)
180	253	0.664355
181	254	0.664352

182	255	0.66435
183	256	0.664349
184	257	0.664347
185	258	0.664345
186	259	0.664343
187	260	0.664339
188	264	0.664304
189	268	0.664303
190	269	0.664286
191	270	0.664237
192	271	0.6642
193	272	0.664177
194	273	0.664162
195	274	0.664152
196	275	0.664138
197	276	0.664113
198	278	0.664101
199	279	0.664085

Iteration	Func-count	f(x)
200	280	0.664075

201	281	0.664063
202	282	0.664057
203	283	0.664051
204	284	0.664046
205	285	0.664043
206	286	0.664042
207	287	0.664039
208	288	0.664038
209	289	0.664036
210	290	0.664035
211	291	0.664034
212	292	0.664032
213	293	0.664031
214	294	0.66403
215	295	0.664029
216	296	0.664029
217	297	0.664028
218	298	0.664027
219	299	0.664027

Iteration	Func-count	$f(x)$
-----------	------------	--------

220	300	0.664026
221	301	0.664025
222	302	0.664024
223	303	0.664022
224	304	0.664021
225	305	0.66402
226	306	0.664018
227	307	0.664016
228	308	0.664014
229	309	0.664012
230	310	0.664004
231	311	0.663825
232	314	0.663824
233	315	0.663731
234	318	0.66351
235	320	0.663474
236	321	0.66331
237	322	0.663214
238	323	0.663143
239	324	0.663129

Iteration	Func-count	$f(x)$
240	325	0.663119
241	326	0.663115
242	327	0.663112
243	328	0.663108
244	329	0.663104
245	330	0.663101
246	331	0.663099
247	332	0.663098
248	333	0.663096
249	334	0.663095
250	335	0.663094
251	336	0.663092
252	337	0.66309
253	338	0.663088
254	339	0.663086
255	340	0.663084
256	341	0.663083
257	342	0.663081
258	343	0.663079
259	344	0.663077

Iteration	Func-count	$f(x)$
260	345	0.663074
261	346	0.663072
262	347	0.663069
263	348	0.663066
264	349	0.663063
265	350	0.663062
266	351	0.663057
267	352	0.663052
268	353	0.66305
269	354	0.663048
270	356	0.663048
271	357	0.663047
272	358	0.663047
273	359	0.663046
274	360	0.663046
275	361	0.663046
276	362	0.663046
277	363	0.663045
278	364	0.663045

279	365	0.663044
-----	-----	----------

Iteration	Func-count	f(x)
280	366	0.663044
281	367	0.663043
282	368	0.663042
283	369	0.663042
284	370	0.663041
285	371	0.66304
286	372	0.663039
287	373	0.663037
288	374	0.663036
289	376	0.663035
290	377	0.663033
291	378	0.663031
292	379	0.663029
293	380	0.663027
294	381	0.663025
295	384	0.663015
296	387	0.663011
297	389	0.663007

298	390	0.662997
299	391	0.662986

Iteration	Func-count	f(x)
300	392	0.66297
301	393	0.662962
302	394	0.662956
303	395	0.662953
304	396	0.66295
305	397	0.662949
306	398	0.662947
307	399	0.662946
308	400	0.662946
309	401	0.662946
310	402	0.662945
311	403	0.662945
312	404	0.662945
313	405	0.662945
314	406	0.662944
315	407	0.662944
316	408	0.662944



317	409	0.662944
318	410	0.662944
319	411	0.662944

Iteration	Func-count	f(x)
320	412	0.662943
321	413	0.662943
322	414	0.662943
323	415	0.662943
324	416	0.662943
325	417	0.662943
326	418	0.662942
327	419	0.662942
328	420	0.662942
329	421	0.662941
330	422	0.662941
331	423	0.66294
332	424	0.66294
333	425	0.662939
334	426	0.662937
335	427	0.662936

336	429	0.662935
337	430	0.662934
338	431	0.662932
339	432	0.66293

Iteration	Func-count	f(x)
340	433	0.662929
341	434	0.662926
342	435	0.662924
343	436	0.662923
344	437	0.662922
345	438	0.662921
346	439	0.66292
347	440	0.662919
348	441	0.662918
349	442	0.662918
350	443	0.662918
351	444	0.662918
352	445	0.662918

Optimization completed: The first-order

```
than options.OptimalityTolerance = 1.00
```

```
Elapsed time is 54.225129 seconds.
```

```
toc;
```

```
Elapsed time is 54.230695 seconds.
```

```
class_order = Output.class_order;  
data_perm = Output.data_perm;  
k = par.K_cluster;  
perm_class = Output.perm_class;
```

## Cell-fate Landscape

embeddings and centers

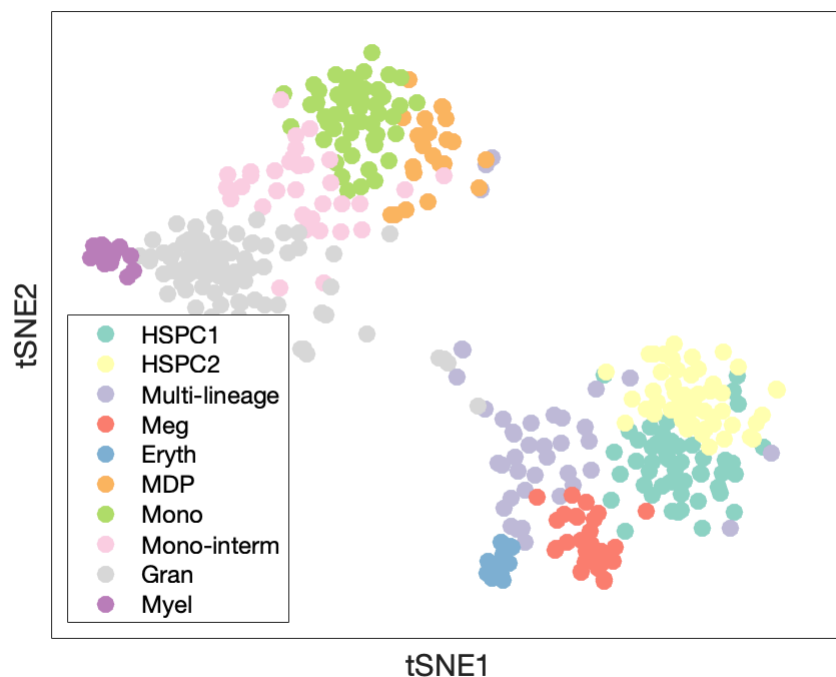
```
name_exp = {'HSPC1', 'HSPC2', 'Meg', 'Eryt'  
name_cluster = {'HSPC1', 'HSPC2', 'Multi-  
colors_exp = brewermap(9, 'paired');  
colors_cluster = brewermap(k, 'set3');  
labs_perm = Output.labs_perm;
```

```

Output.embedding_2d = score_tsne(permutation_test_embedding_2d)
score_2d = score_tsne(permutation_test_embedding_2d, permutation_test_embedding_2d);

figure;
gscatter(score_2d(:,1),score_2d(:,2),cluster_label);
legend(name_cluster,'FontSize',12,'Location','best');
set(gca,'xtick',[],'ytick',[]);
xlabel('tSNE1','FontSize',15);
ylabel('tSNE2','FontSize',15);

```



```
Output.embedding_2d = score_2d;
```

```
figure;
```

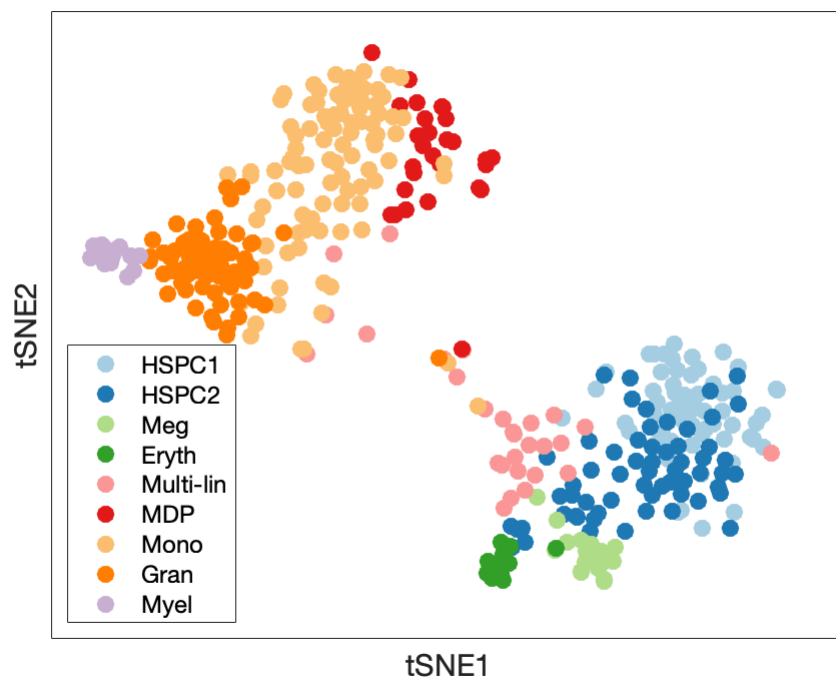
```
gscatter(score_2d(:,1),score_2d(:,2),la
```

```
legend(name_exp, 'Fontsize',12, 'Location
```

```
set(gca, 'xtick',[], 'ytick',[]);
```

```
xlabel('tSNE1', 'Fontsize',15)
```

```
ylabel('tSNE2', 'Fontsize',15)
```



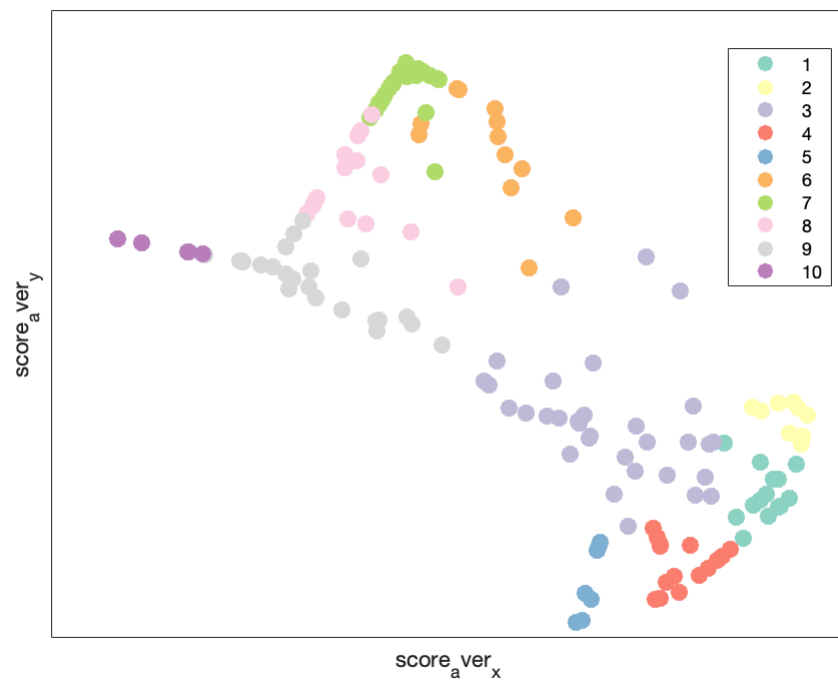
```
Output.embedding_2d = score_2d;
```

Construct landscape

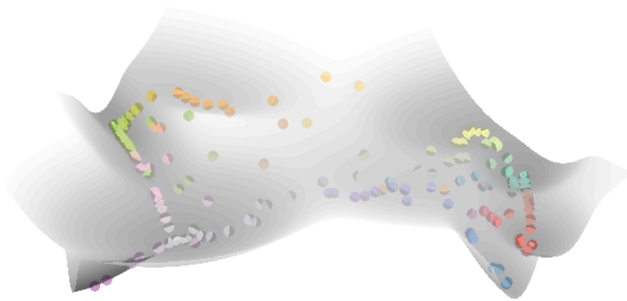
```
par.thresh_calc_center = 0.9;  
par.thresh_calc_cov = 0.2;  
par.N_mesh = 1000;  
par.mksize = 30;  
par.scaleaxis = 1.1;  
par.scalevalue = 1.1;  
par.fontsize = 30;  
par.alpha = 0.4;
```

```
par.plot_label = class_order;  
par.legend_text = name_cluster;  
par.colors = colors_cluster;  
par.color_mixing = true;
```

```
land = ConstructLandscape (Output, par)
```

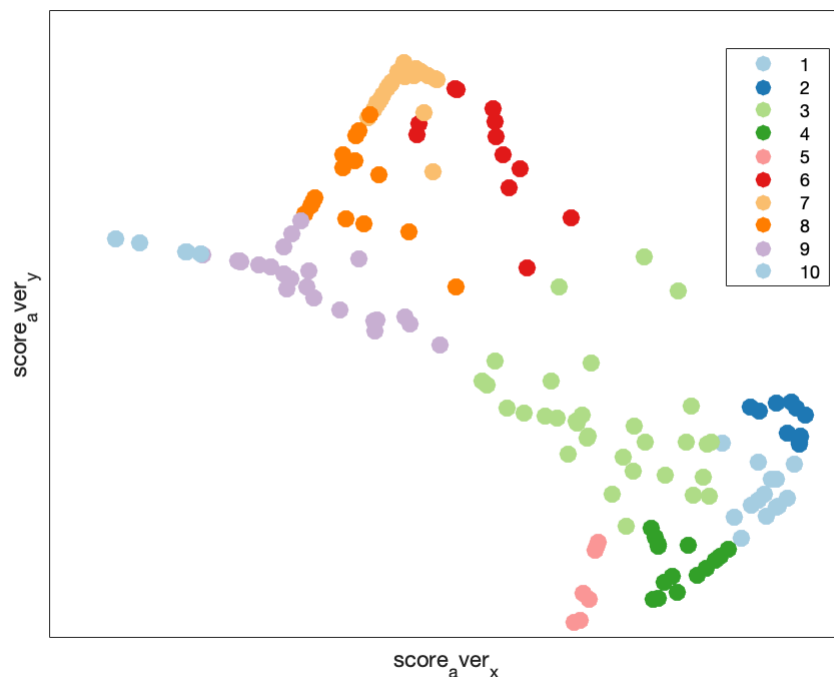


```
view([-46 81])
```



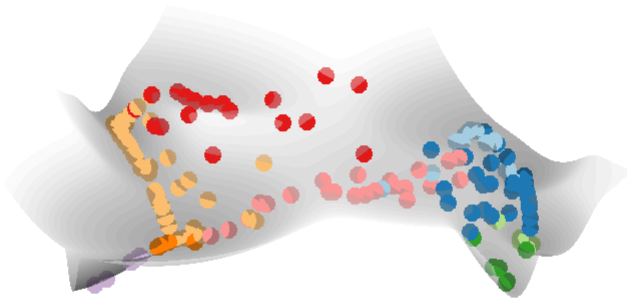
%colored by true label

```
par.color_mixing = false;  
par.colors = colors_exp ;  
par.legend_text = name_exp;  
labs_perm = Output.labs_perm;  
par.plot_label = labs_perm;  
land = ConstructLandscape (Output, par)
```



```
view([-46 81])
```

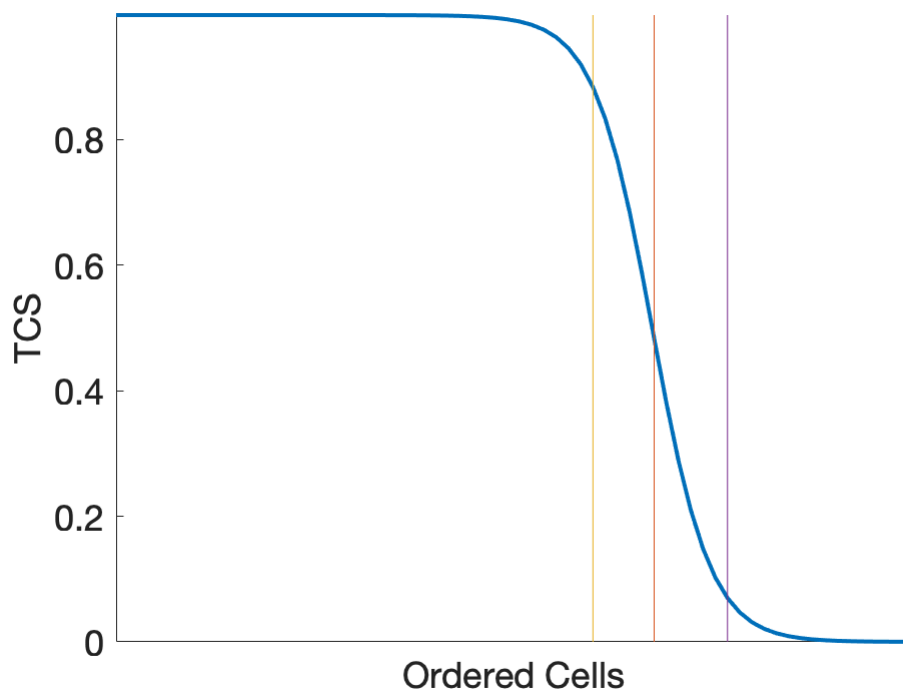




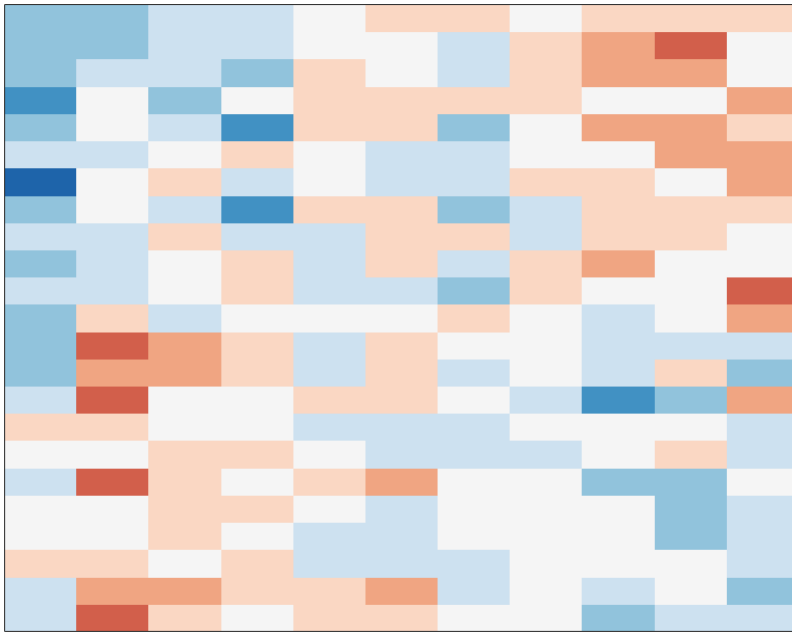
## Transcendental transigion cell and gene analysis

```
genes = gene_name_select;  
par.genes = genes;  
par.true_labs = labs_perm;  
par.thresh_otherkeep = 0.2;  
par.thresh_de_pvalues = 5e-3;  
par.thresh_ms_pvalues = 1e-2;  
par.thresh_tcs = 0.4;  
par.thresh_td_genes = 0.4;  
par.colors = colors_cluster ;
```

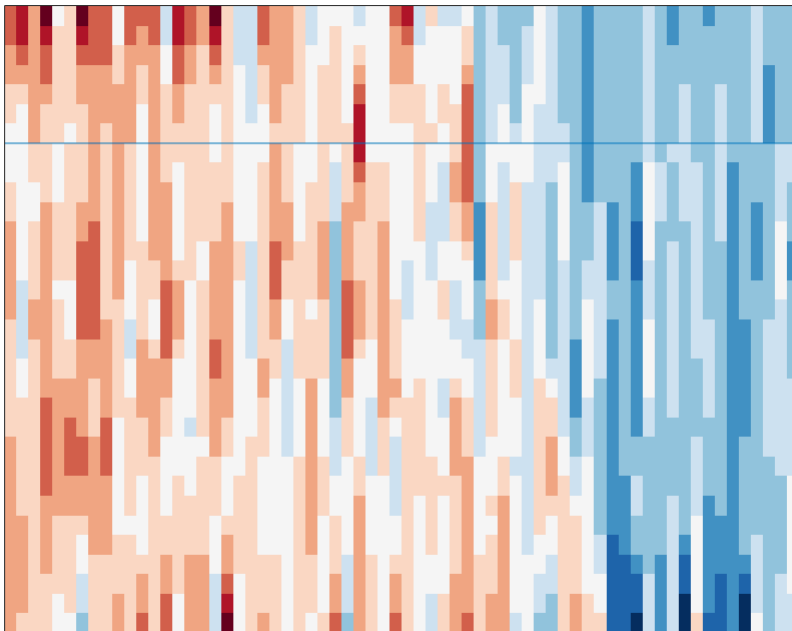
```
par.flip = false;  
par.display_genes_label = false;  
  
% check the state id before preceeding  
% clustering id. Results unchanged.  
out_14 = GeneAnalysis(1, 4, Output,par)
```



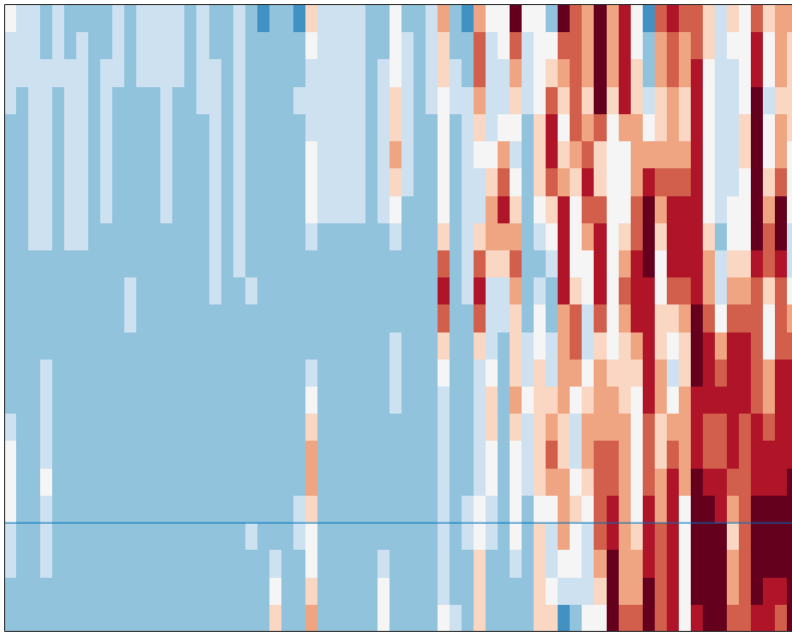
Below is the heatmap of transition gene



Below is the heatmap of down-regulated

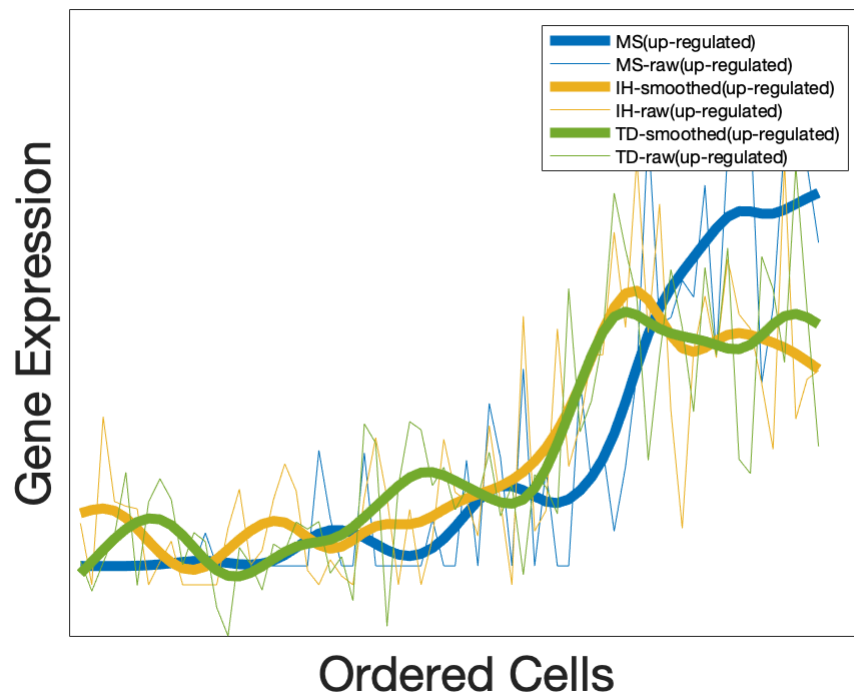
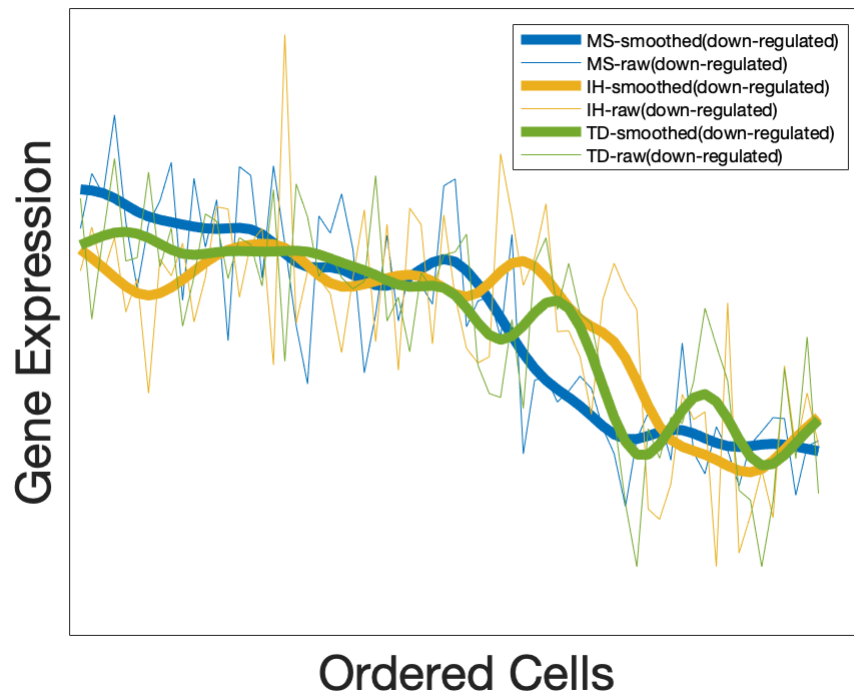


Below is the heatmap of up-regulated MS

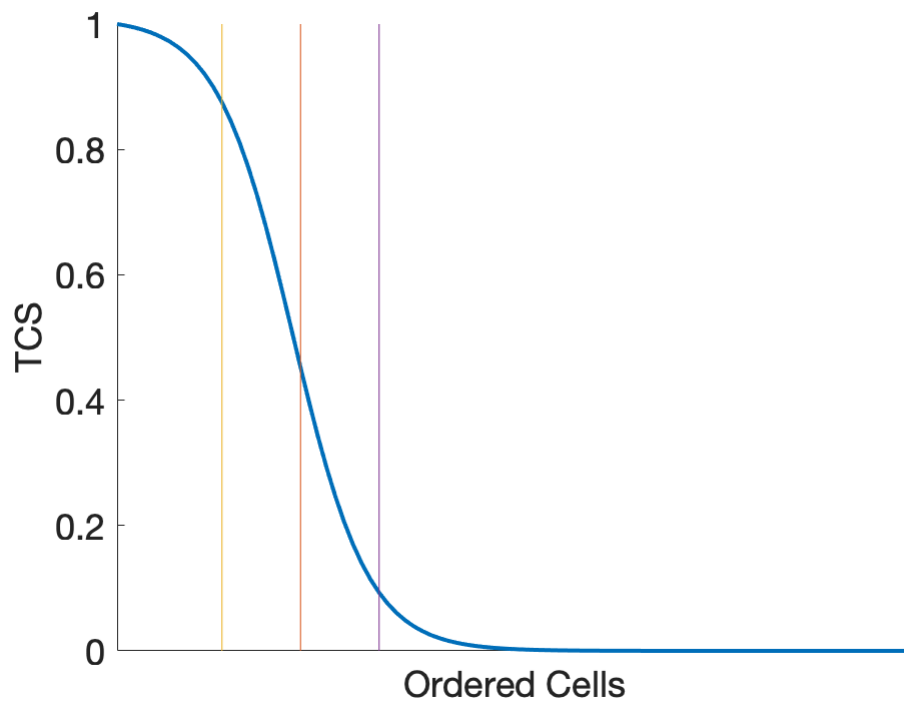


Below is the gradual cell indenty cha





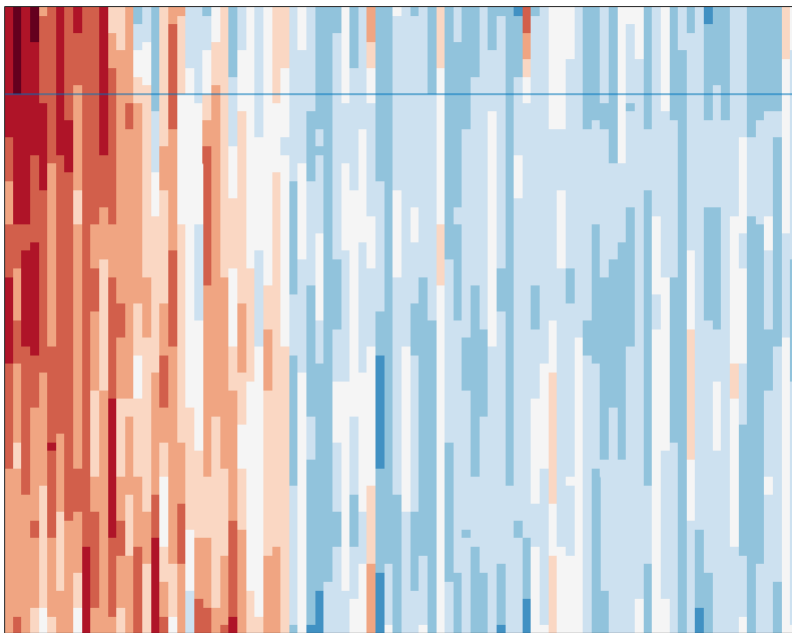
```
par.L_select_top_genes = 5;
out_39 = GeneAnalysis(3, 9, Output,par)
```



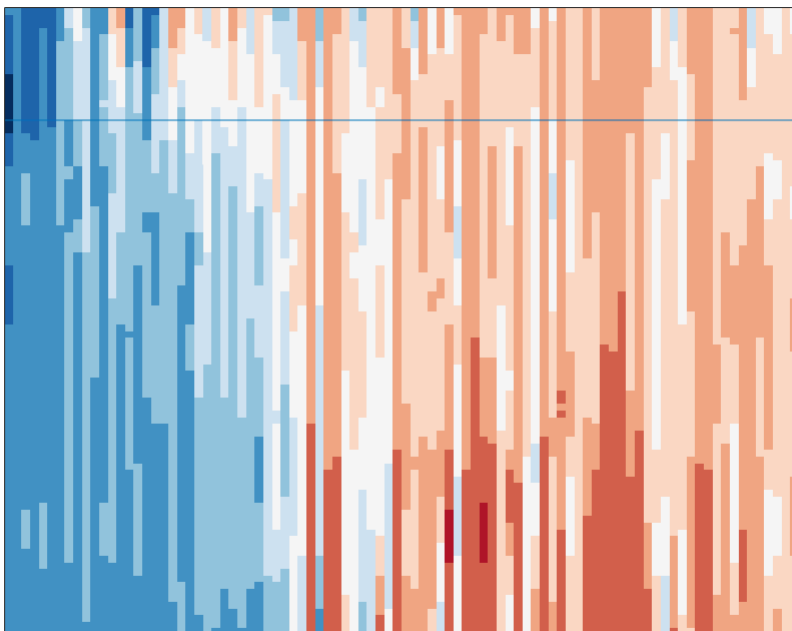
Below is the heatmap of transition gene



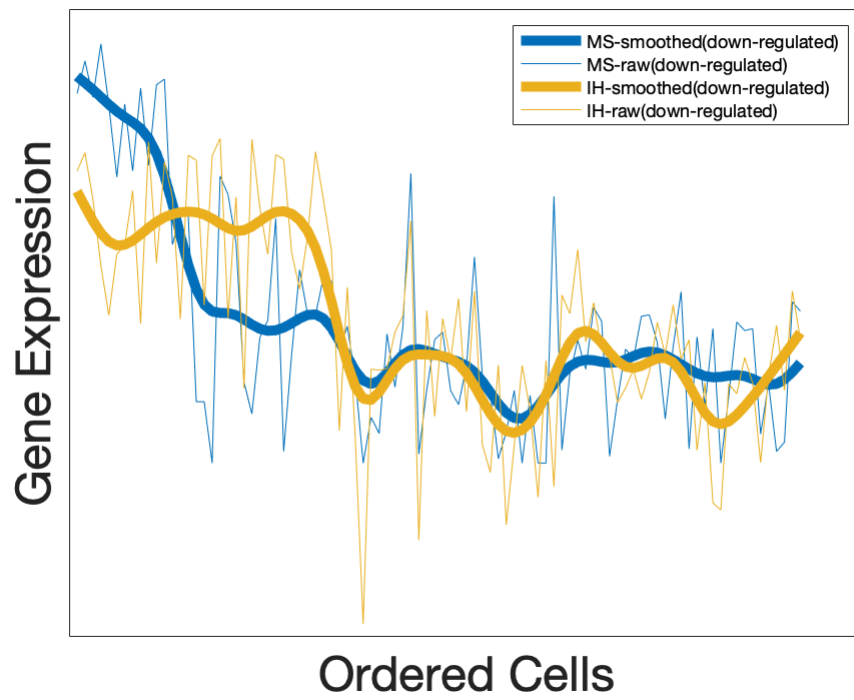
Below is the heatmap of down-regulated



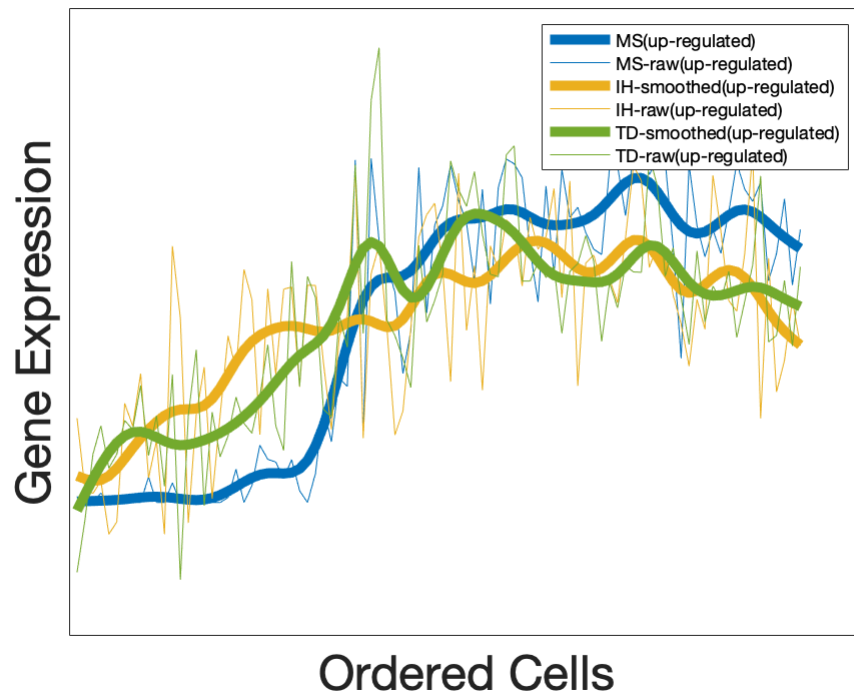
Below is the heatmap of up-regulated MS



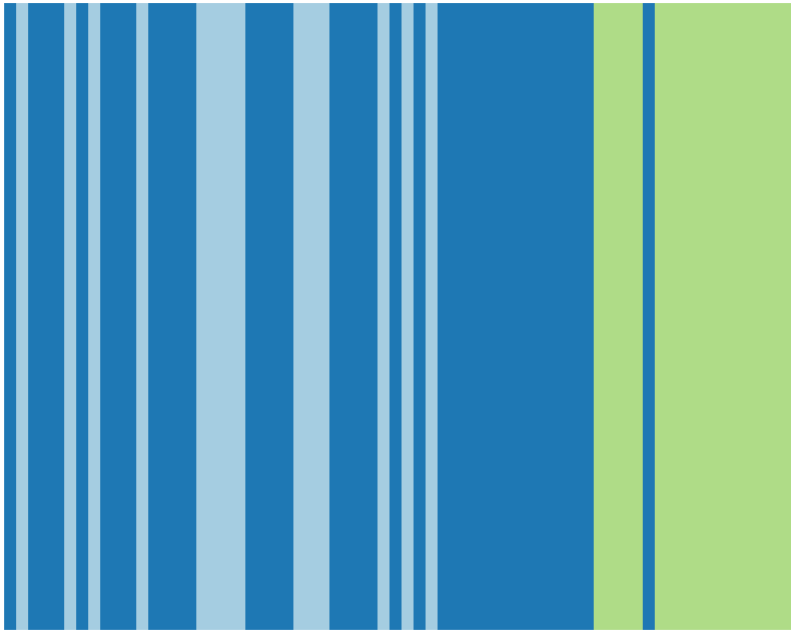
Below is the gradual cell indentivity cha







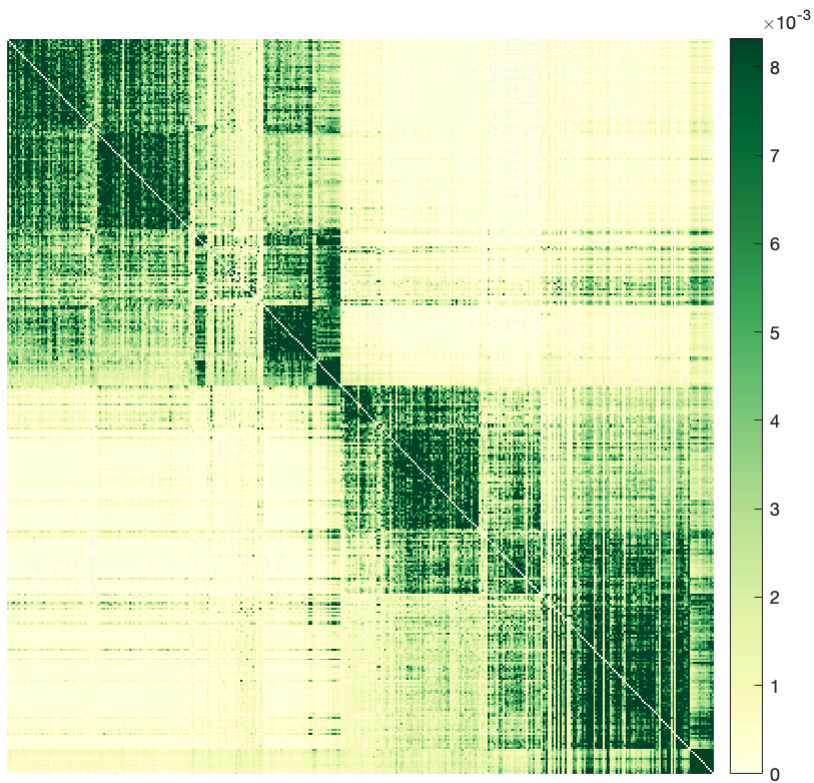
```
figure;
imagesc(out_14.cell_true_lab')
colormap(colors_exp)
caxis([1 10])
axis off
set(gca, 'xtick', [], 'ytick', []);
box off
```



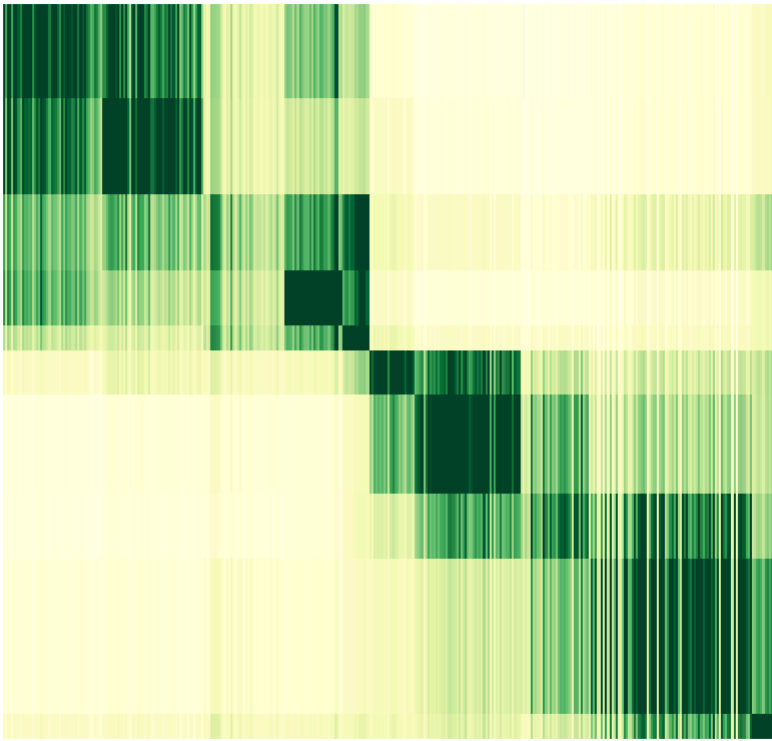
## output other data in **Supplementary**

```
rho_class = Output.rho_class;  
perm_class = Output.perm_class;  
P_hat = Output.P_hat;  
P_appr_perm = Output.P_appr_perm;  
P_perm = Output.P_perm;  
P_rho = Output.P_rho;  
labs_perm = Output.labs_perm;  
mu_hat = Output.mu_hat;  
k = Output.k;  
H = Output.H;
```

```
max_P = 0.2* max(max(P_rho));  
c_lim = [0 max_P];  
cmp = 'ylgn';  
  
figure('rend','painters','pos',[10 10 5  
colormap(brewermap([],cmp))  
imagesc(P_perm);  
axis off  
set(gca,'xtick',[],'ytick',[]);  
caxis(c_lim)  
colorbar;
```



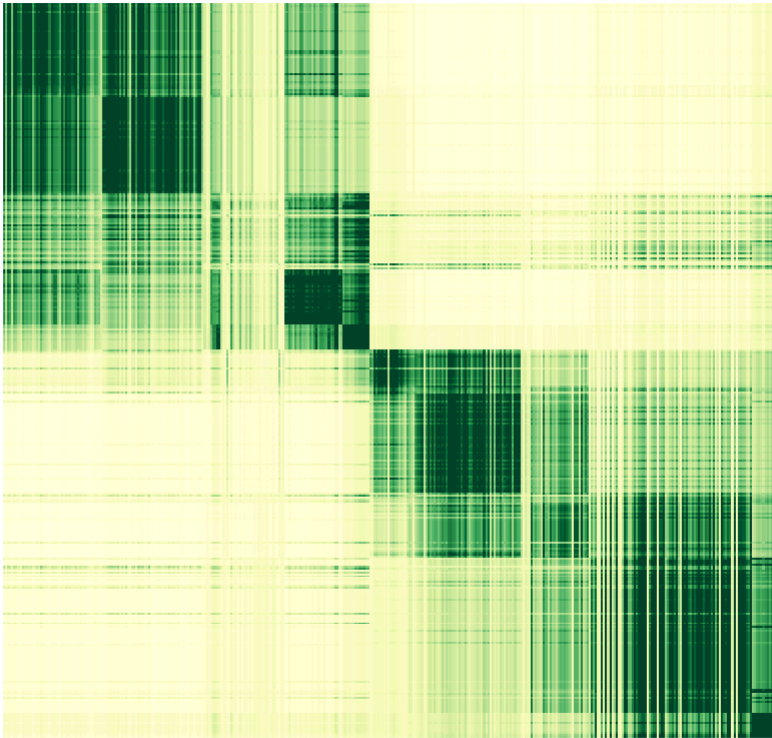
```
figure('rend','painters','pos',[10 10 5
colormap(brewermap([],cmp))
imagesc(P_appr_perm);
axis off
set(gca,'xtick',[],'ytick',[]);
caxis(c_lim)
```



```
%colorbar;
```

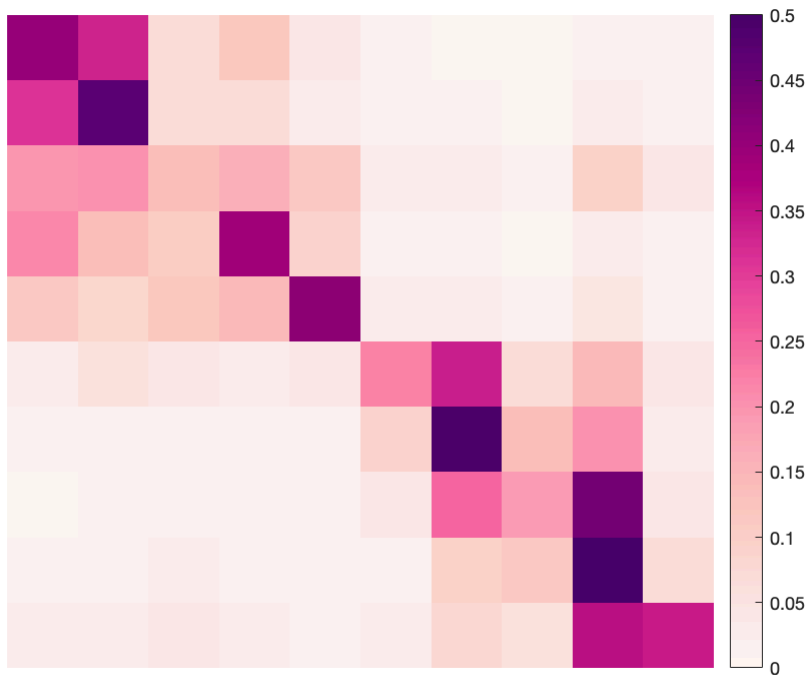
```
figure('rend','painters','pos',[10 10 5  
colormap(brewermap([],cmp))  
imagesc(P_rho);  
axis off  
set(gca,'xtick',[],'ytick',[]);  
caxis(c_lim)  
%colorbar;
```

box off



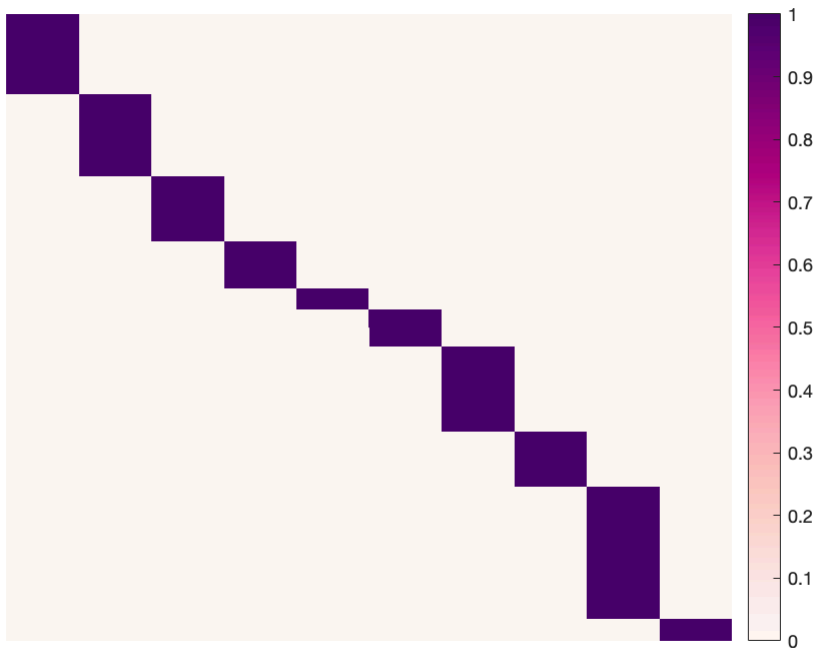
```
cmp = 'rdpu';  
figure('rend','painters','pos',[10 10 5  
colormap(brewermap([],cmp))  
imagesc(P_hat);  
caxis([0 0.5])  
axis off  
set(gca,'xtick',[],'ytick',[]);
```

```
box off  
colorbar;
```



```
figure;  
for id_cluster = 1:k  
member(:,id_cluster) = (class_order ==  
end  
colormap(brewermap([],cmp))  
imagesc(member);  
caxis([0 1])  
colorbar;
```

```
axis off  
set(gca, 'xtick', [], 'ytick', []);  
box off
```



```
figure;  
colormap(brewermap([], cmp))  
imagesc(rho_class);  
caxis([0 1])  
colorbar;  
axis off  
set(gca, 'xtick', [], 'ytick', []);
```



box off

