\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* k = 2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Initialization:

Confusion Matrix for K-means :

Confusion Matrix :

confMtx =

9298 12884

2445 565

Accuracy :

accur =

0.3915

ans =

0.6085

Confusion Matrix for GMM :

Confusion Matrix :

confMtx =

9278 12867

2465 582

Accuracy :

accur =

0.3914

ans =

0.6086

----------------- birth start --------------------

Final acceptance ratio =

0.2268

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.3459

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

1.6483

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.4569

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

1.3273

birth accepted!

\*\*\*\* Round = 10 \*\*\*\* k =3

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

1.0395

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.6575

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.9514

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

1.0502

birth accepted!

death accepted!

death accepted!

\*\*\*\* Round = 20 \*\*\*\* k =1

----------------- birth start --------------------

Final acceptance ratio =

-2.5925

----------------- birth start --------------------

Final acceptance ratio =

-0.5220

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

-0.0963

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.3886

birth accepted!

death accepted!

----------------- birth start --------------------

Final acceptance ratio =

0.2095

birth accepted!

----------------- birth start --------------------

Final acceptance ratio =

1.0399

birth accepted!

death accepted!

\*\*\*\* Round = 30 \*\*\*\* k =2

----------------- birth start --------------------

Final acceptance ratio =

0.6362

birth accepted!

death accepted!

Confusion Matrix :

confMtx =

9606 12627

2137 822

Accuracy :

accur =

0.4139

ans =

0.5861

marginalLikelihood =

-2.3385e+06