Trained 1000 Hmm models each with 200 iterations of re-estimation.
These implementation does not re-estimate the A matrix instead uses the diagraph matrix constructed from English corpus.
Length of observation sequence-> 1000

Final value of b matrix
P=a------> C=d-------->0.9999999999991129
P=b------> C=e-------->0.6591042225683762
P=c------> C=f-------->0.4229222430326472
P=d------> C=g-------->0.9507114273636709
P=e------> C=h-------->0.9843479197240947
P=f------> C=i-------->0.6443718960460982
P=g------> C=j-------->0.7074387342678542
P=h------> C=k-------->0.9887664851724817
P=i------> C=l-------->0.9999906144944264
P=j------> C=a-------->0.8109167455682632
P=k------> C=w-------->0.5808461194929125
P=l------> C=o-------->0.9330607850239687
P=m------> C=p-------->0.6933591758754144
P=n------> C=q-------->0.8598401372416627
P=o------> C=r-------->1.0
P=p------> C=s-------->0.632216961195429
P=q------> C=t-------->0.7109198732213262
P=r------> C=u-------->0.8883150039869266
P=s------> C=v-------->0.9948977413943725
P=t------> C=w-------->0.9755642826486275
P=u------> C=x-------->0.9629772495723893
P=v------> C=y-------->0.6941678273621655
P=w------> C=z-------->0.8366197134165715
P=x------> C=*-------->0.8409574809991391
P=y------> C=a-------->0.6971022542169545
P=z------> C=g-------->0.8824257871015868
P=*------> C=c-------->0.9999999998083889
So apart from the highlighted ones, rest plaintext ciphertext mappings are predicted correctly.
Hence accuracy=24/27