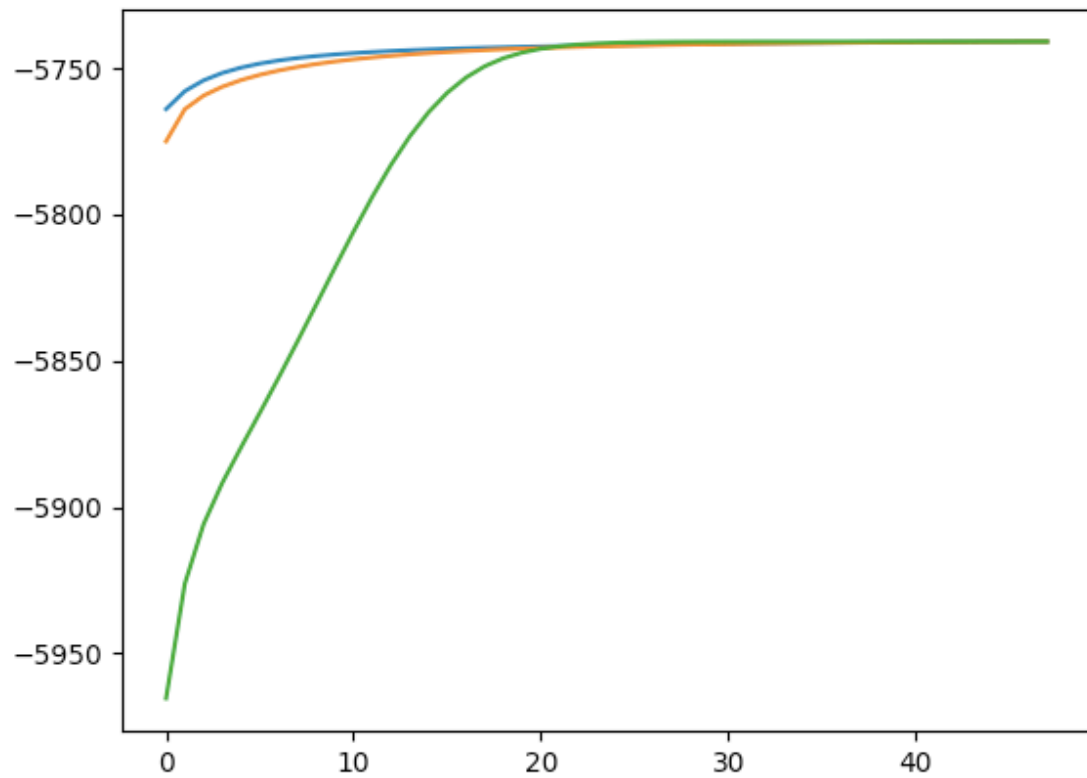
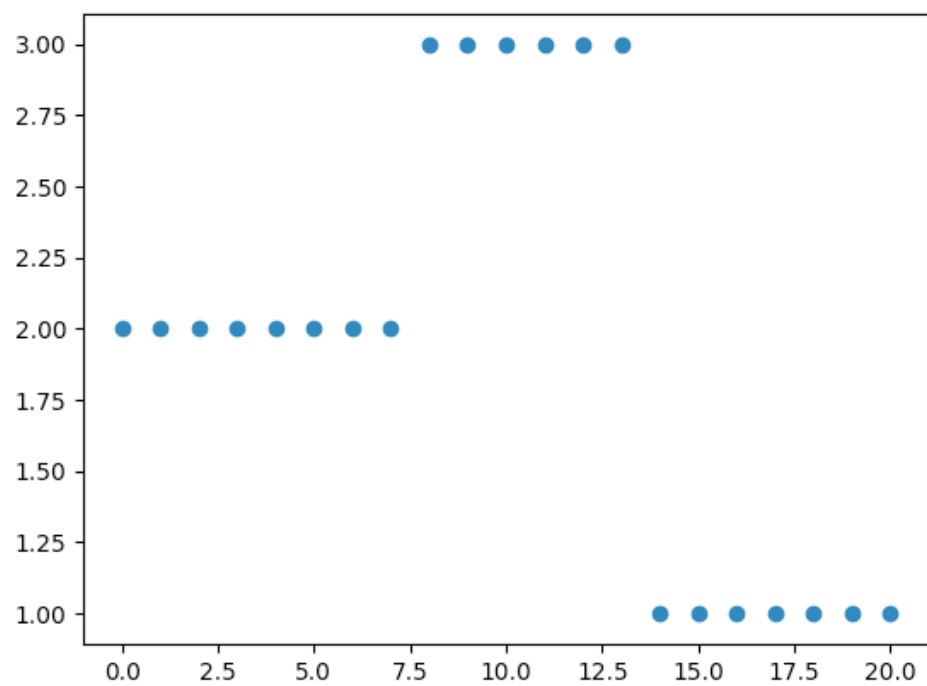


1. EM_Algorithms:

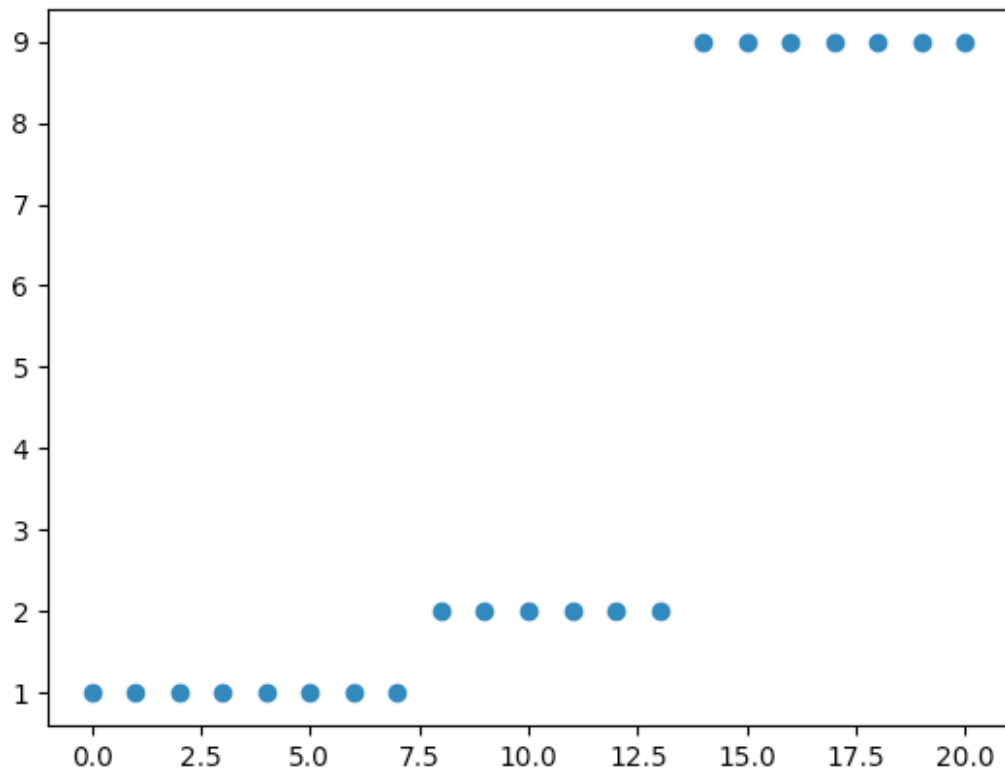
Blue: $K = 15$; Orange: $K = 9$; Green: $K = 3$



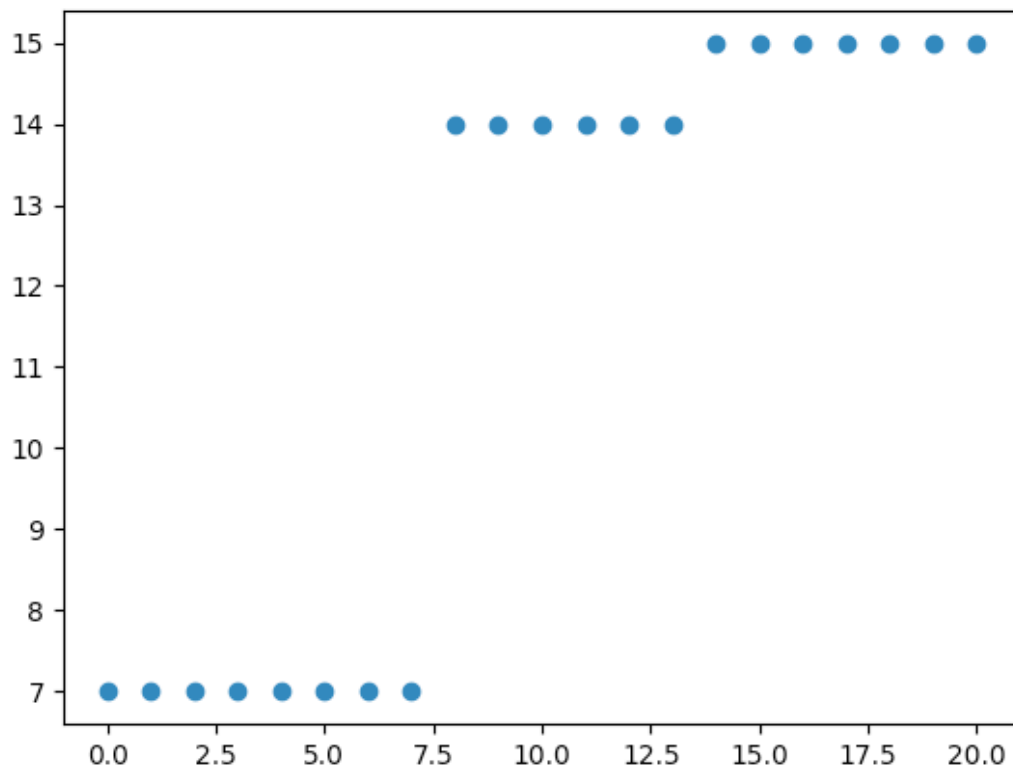
$K = 3$:



K = 9:

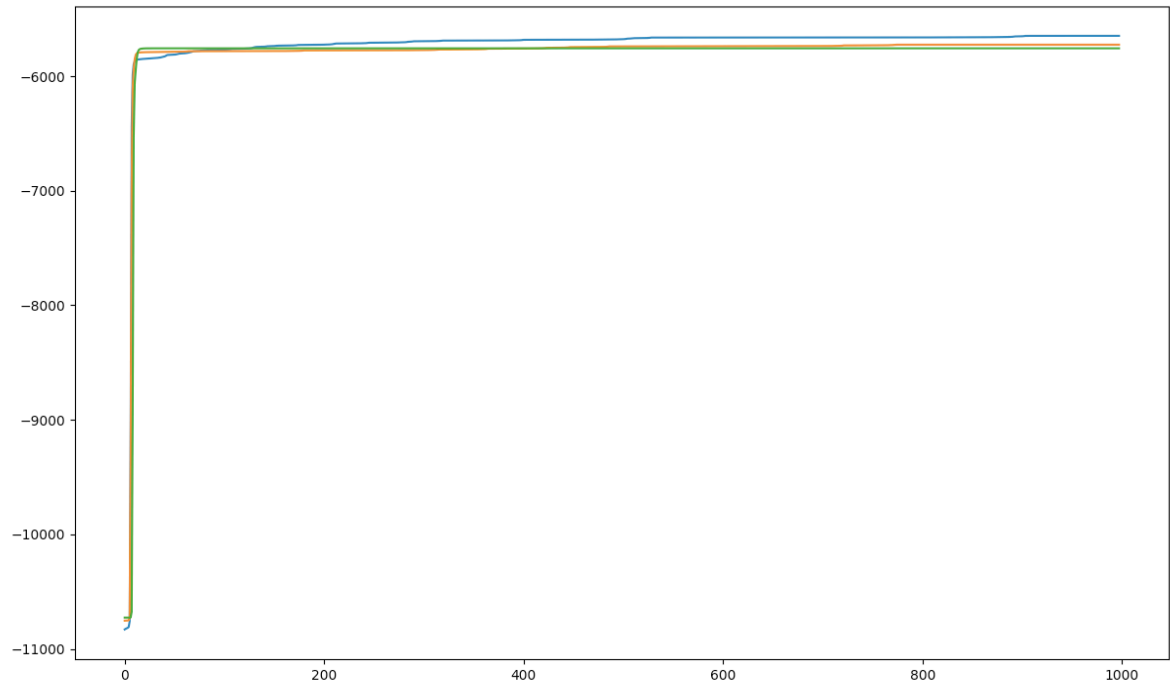


K = 15:

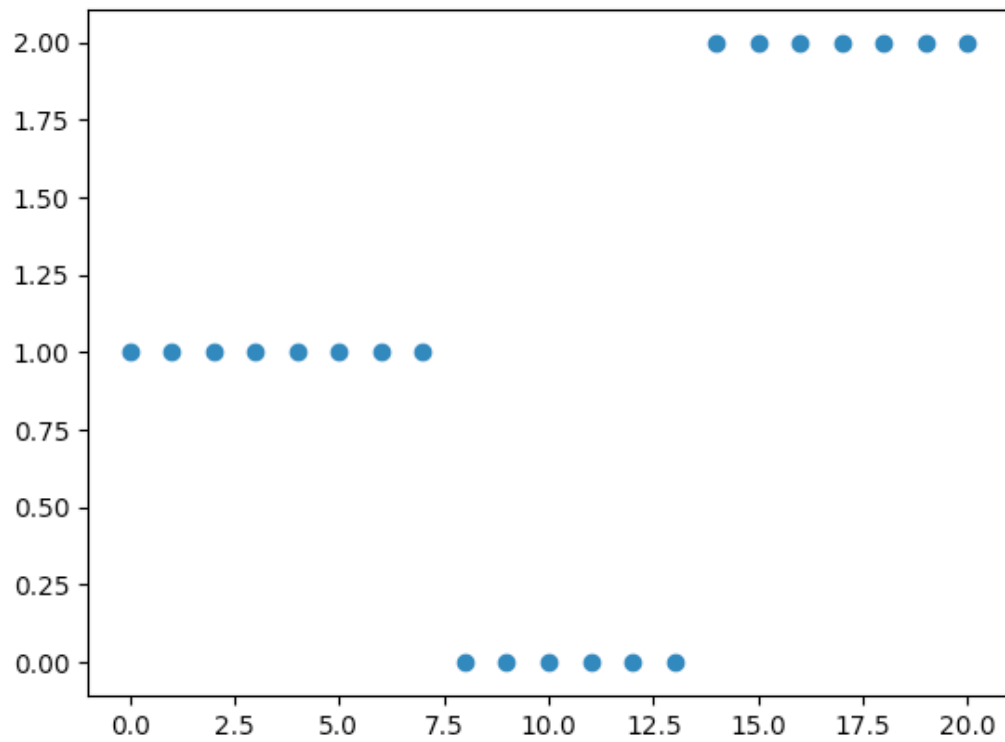


2. VI_Algorithms:

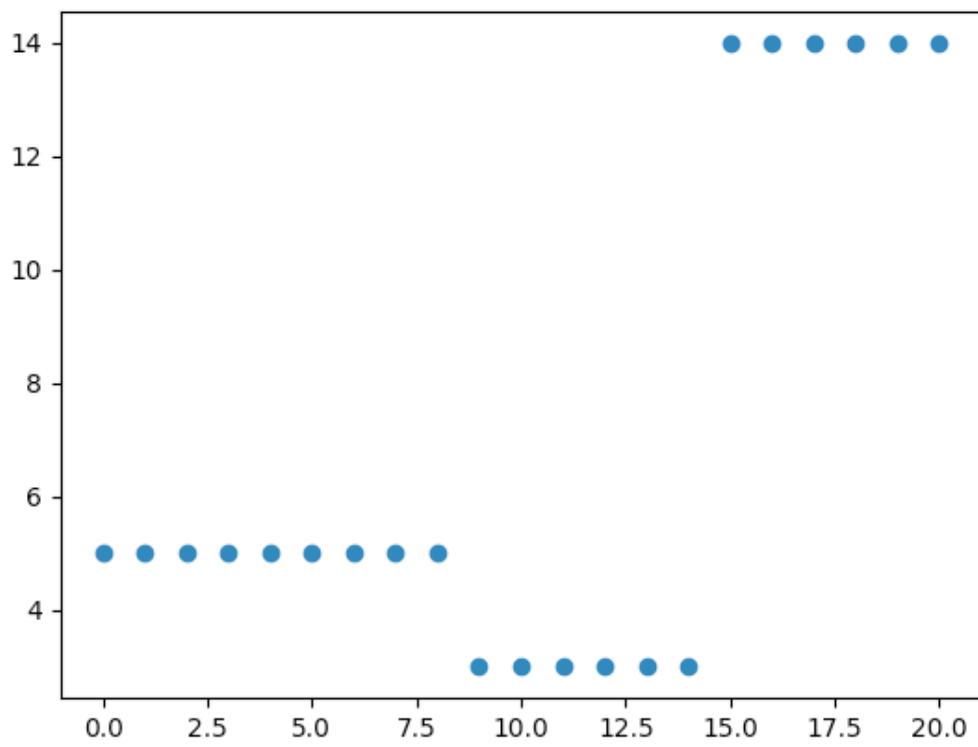
Blue: $K = 50$; Orange: $K = 15$; Green: $K = 3$



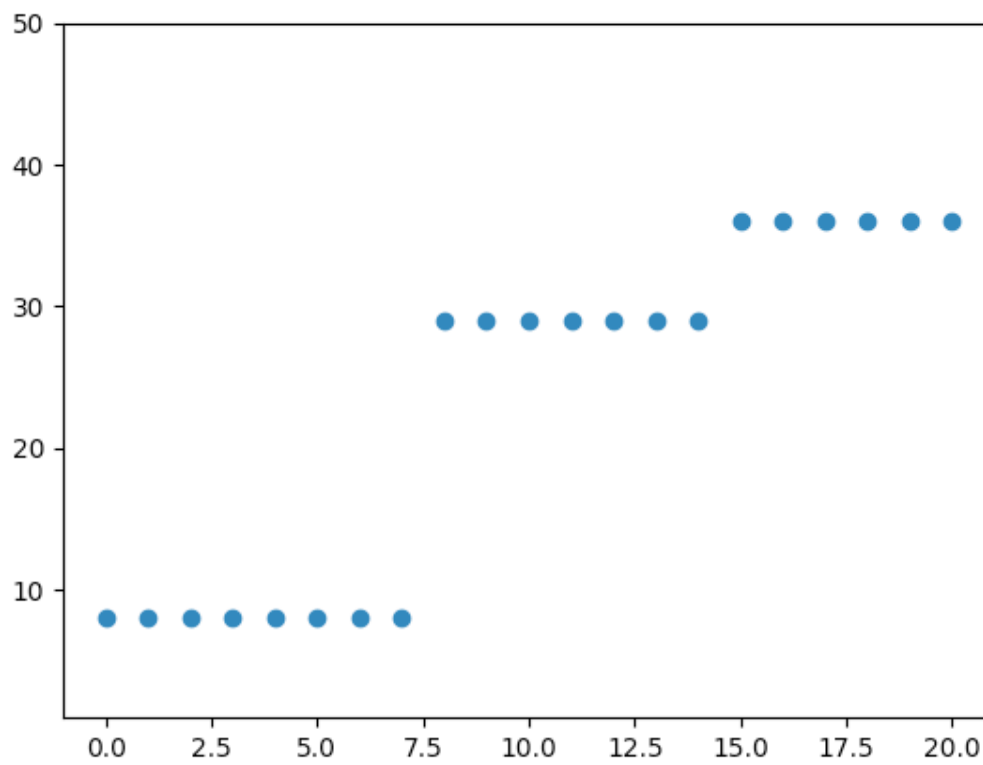
$K = 3$:



K = 15:

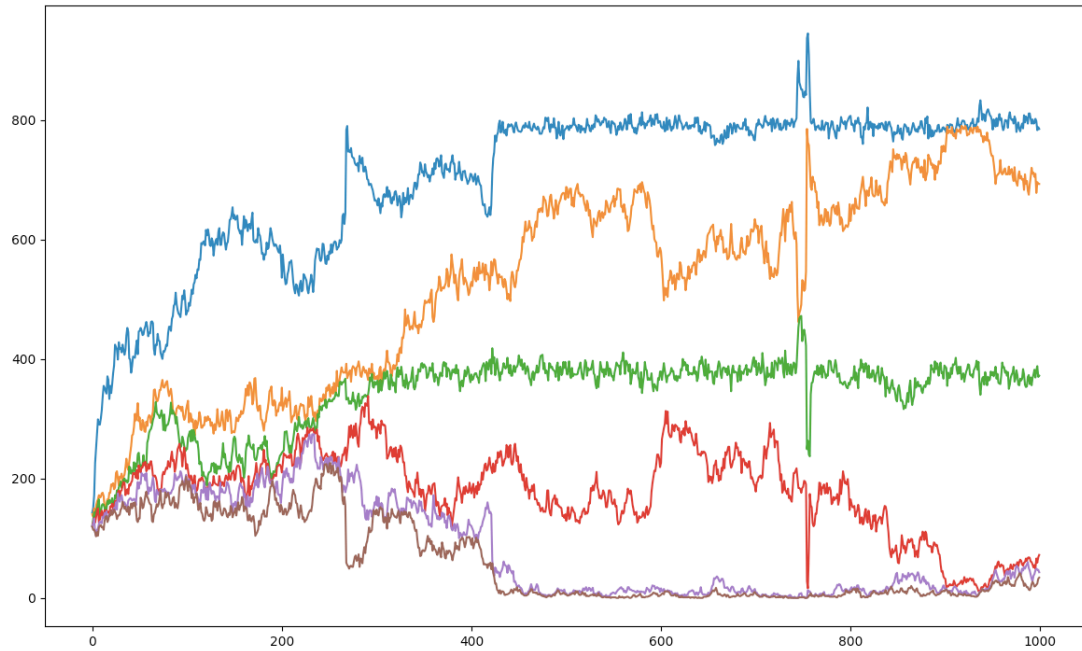


K = 50:



3. Gibbs Sampling:

six most probable clusters



Total number of clusters for each iteration

