

Homework 4

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Exercise 1 :

Figure 1 represents the objective function value per iteration.

Figure 2 represents the clusters for $K=3$

Figure 3 represents the clusters for $K=5$

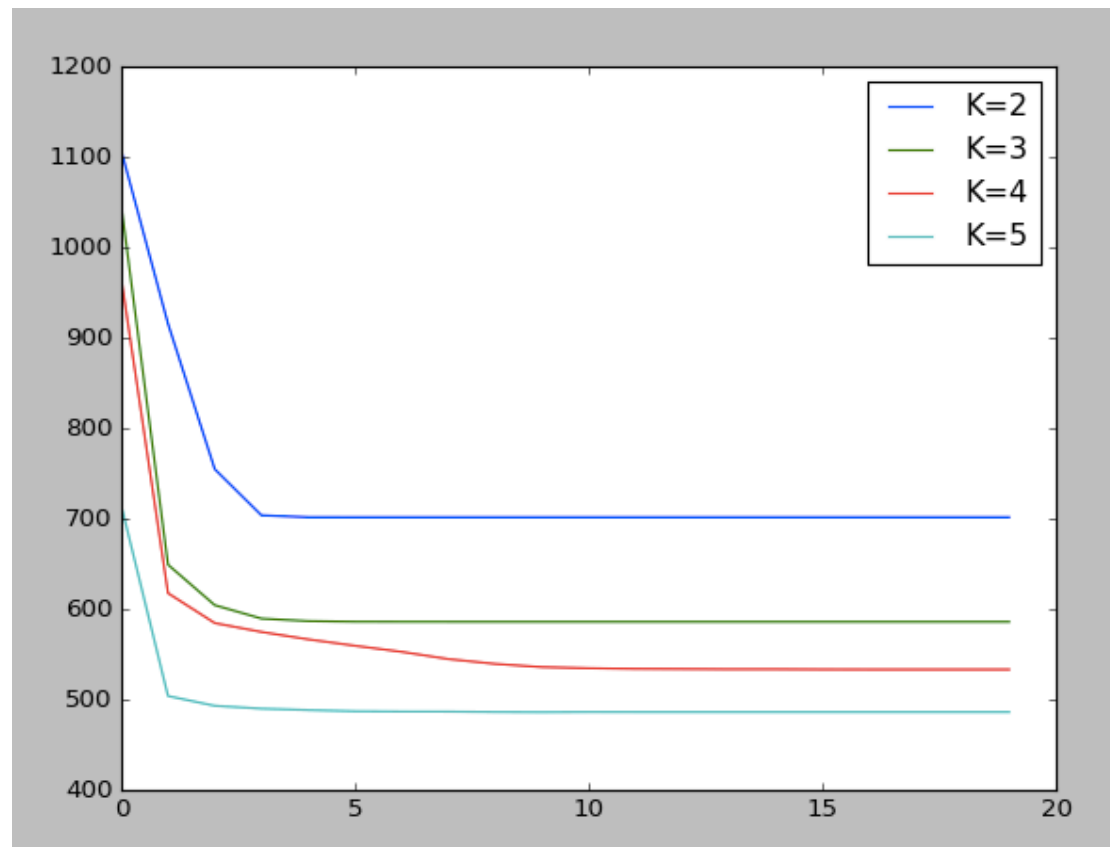


Figure 1

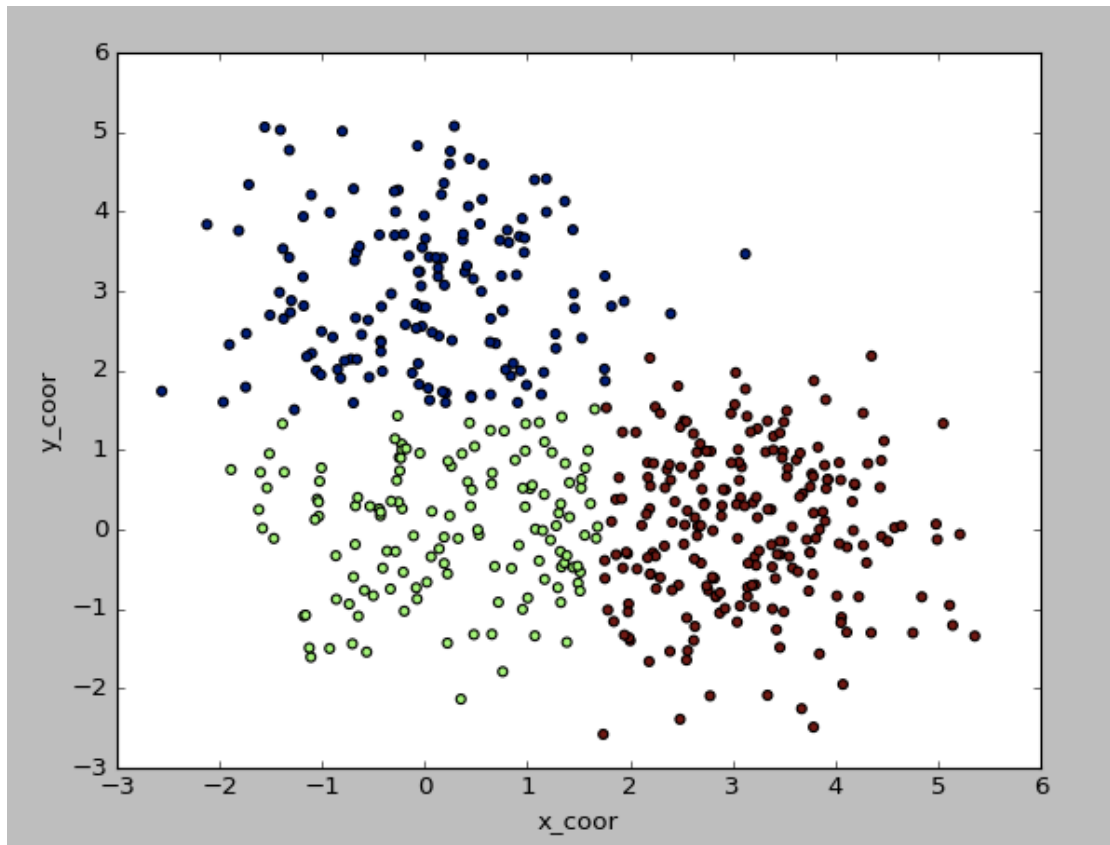


Figure 2

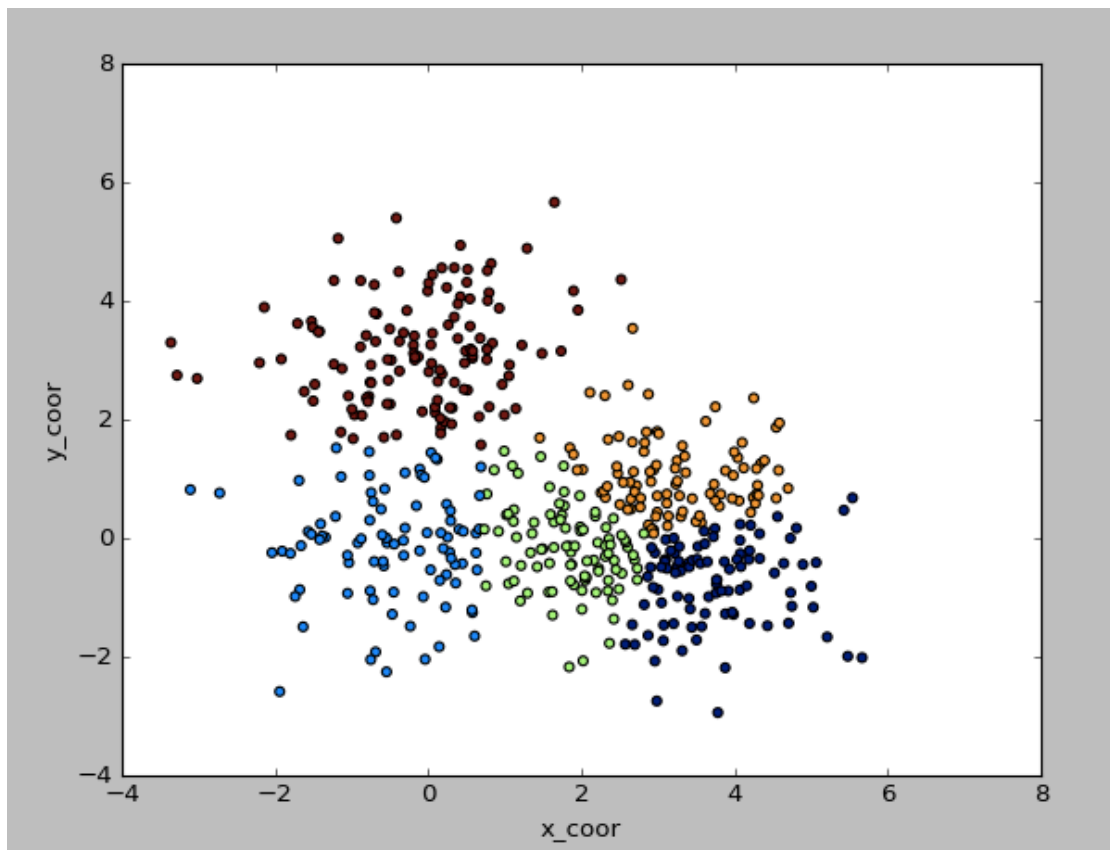


Figure 3

Exercise 2 :

Figure 1 represents the joint likelihood function for 100 iterations.

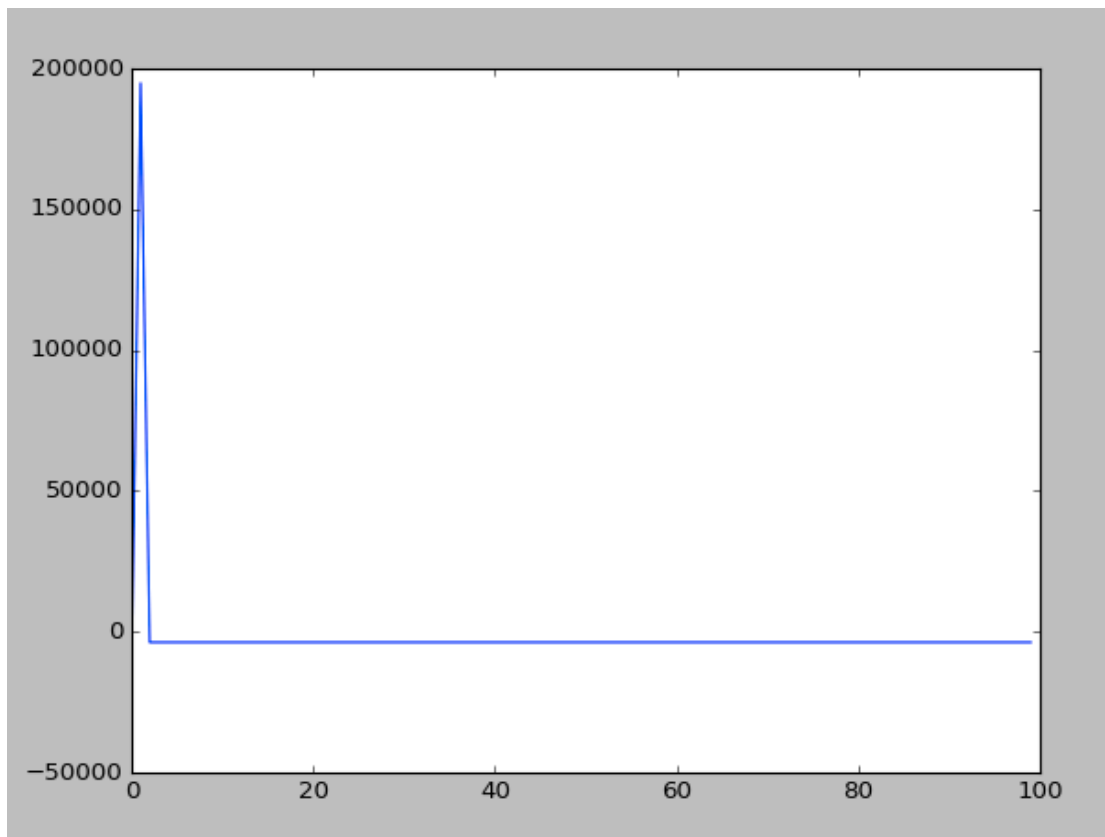


Figure 1

I have an issue with my first iteration, I couldn't identify the reason.

Here are the value of the final value of the objective function for each of the 10 run :