*K means outputs with 3 centroids:*

label 0's count: 119

The centroid is 3.600000 79.000000

label 1's count: 85

The centroid is 1.800000 54.000000

label 2's count: 46

The centroid is 3.333000 74.000000

root mean square:1037.777594

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label 0's count: 107

The centroid is 4.361303 82.588235

label 1's count: 82

The centroid is 2.021565 54.000000

label 2's count: 61

The centroid is 3.894870 71.913043

root mean square:921.008045

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label 0's count: 107

The centroid is 4.352458 83.214953

label 1's count: 83

The centroid is 2.011378 53.646341

label 2's count: 60

The centroid is 3.923705 72.508197

root mean square:916.528159

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label 0's count: 107

The centroid is 4.352458 83.214953

label 1's count: 83

The centroid is 2.022084 53.759036

label 2's count: 60

The centroid is 3.940767 72.666667

root mean square:914.224857

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*This K means algorithm starts with selecting K initial centroids and keeps changing in every iteration by taking cluster mean. There are 250 points throughout the data and I am trying to separate them into three groups. As I expect, after every adjustment of centroids, root mean square goes down which means dissimilarity has been reduced and program runs correctly.*