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Syntax to run the code in terminal:

python3 unsup_clustering.py filename.txt num1 num2

where, filename.txt is the name of the file. Sample files I have included are
with3clusters.txt ,with4clusters.txt and with5clusters.txt

num1 can be 1 or 0, 1 if you want to print the details of the clusters being divided mid-algorithm, 0 if you do not want to print that

num2 can be 1 or 0, 1 if you want to see the plot of initial undivided points and final divided clusters using k-means, and final plot of points with clusters enveloped by minimum volume bounding ellipsoid and 0 if you don't want the graph.