**K-Means Algorithm Documentation**

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1. The master read and obtain all the points from the input file.
2. The master process does initial to the clusters according to the first k points.
3. The master process calculates the amount of points that each process (include him) will handle with, also, the master handle with the rest of the points (in case N%numproc!=0).
4. The master process broadcast to the other processes the number of clusters and number of points that the individual process will be handle.











17. The master is writing to the output file the time, quality and the clusters centers to a output file and finalize