Paralel Ortalama Kaydirma

Bu algoritmayi paralel isletmek icin her nokta etrafinda hayal edilen pencerenin

```
from pandas import *
  df1 = read_csv("synthetic.txt",sep=" ")
   !ssh localhost -1 hduser /home/hduser/Downloads/hadoop*/bin/stop-all.sh
   !ssh localhost -1 hduser /home/hduser/Downloads/hadoop*/bin/start-all.sh
stopping jobtracker
localhost: stopping tasktracker
stopping namenode
localhost: stopping datanode
localhost: stopping secondarynamenode
starting namenode, logging to /home/hduser/Downloads/hadoop-1.0.4/libexec/../logs/hadoop-hduser-namenode
localhost: starting datanode, logging to /home/hduser/Downloads/hadoop-1.0.4/libexec/../logs/hadoop-hduser
localhost: starting secondarynamenode, logging to /home/hduser/Downloads/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/libexec/.../logs/hadoop-1.0.4/
starting jobtracker, logging to /home/hduser/Downloads/hadoop-1.0.4/libexec/../logs/hadoop-hduser-jobtra
localhost: starting tasktracker, logging to /home/hduser/Downloads/hadoop-1.0.4/libexec/../logs/hadoop-l
   !ssh localhost -1 hduser /home/hduser/Downloads/hadoop*/bin/hadoop dfs -copyFromLocal
            $HOME/Documents/classnotes/stat/stat_hadoop_kmeans/synthetic.txt /user/hduser
copyFromLocal: Target /user/hduser/synthetic.txt already exists
  print open("mapper.py").read()
#!/usr/bin/python
import os, sys, itertools
import numpy as np
from numpy import linalg as la
os.environ['MPLCONFIGDIR']='/tmp'
import pandas as pd
centers = pd.read_csv("/tmp/centers.csv",header=None,sep=",")
```

print open("reducer.py").read()

```
#!/usr/bin/python
import os,sys,itertools
import numpy as np
from numpy import linalg as la
os.environ['MPLCONFIGDIR']='/tmp'
import pandas as pd

def coords(x):
    return pd.Series(np.array(str(x).split(":"),dtype=np.float64))

df = pd.read_csv(sys.stdin,sep="\t",names=['cluster','coord'])
df2 = df['coord'].apply(coords)
df3 = df.combine_first(df2)
df4 = df3.groupby('cluster').mean()
df4.to_csv(sys.stdout, sep=',',header=None)
```