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Subject: help me to test the following code

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Hi everyone,

Something weird happened when I was trying to cluster some points into to 2 classes based on their location. I kept on compiling and executing the code, sometimes it reported error, but sometimes it run sucessfully and gave me an answer(without modifying anything)!!!!

Here is the code:

\*\*\*\*\*

```
pro cluster_test
a= [ [558288.75d,    4609749.2d,    236.88000,    3.0000000],
$
$ [558285.49d,    4609729.9d,    236.77000,    3.0000000],
$
$ [558288.75d,    4609749.2d,    236.88000,    3.0000000],
$
$ [558286.91d,    4609749.5d,    236.79000,    3.0000000],
$
$ [558282.26d,    4609732.0d,    236.11000,    3.0000000],
$
$ [558285.20d,    4609730.7d,    236.41000,    3.0000000],
$
$ [558283.38d,    4609731.0d,    236.67000,    3.0000000],
$
$ [558281.54d,    4609731.3d,    236.83000,    3.0000000],
$
$ [558281.82d,    4609730.5d,    237.23000,    3.0000000],
$
$ [558283.67d,    4609730.2d,    237.05000,    3.0000000],
$
$ [558284.16d,    4609729.4d,    237.27000,    3.0000000],
$
$ [558282.31d,    4609729.7d,    237.36000,
3.0000000]]
```

```
b = a[0:1,*]
b[0,*] = b[0,*] - long(a[0,*]/100)*100
b[1,*] = b[1,*] - long(a[1,*]/100)*100
```

```
plot,b[0,*],b[1,*]
```

```
print,b
```

```
weights = CLUST_WTS(b, N_CLUSTERS = 2)
```

```
rst = CLUSTER(b,weights,n_clusters = 2)
sub = where(rst eq 0)
pa = a[:,sub]
```

```
print,pa
```

```
end
```

```
*****
```

The first and second column of the array a is X,Y coordinate,respectivly. Because the numbers are too huge, I tried to make them relatively smaller by substracting a number, then I tried to cluster the points using the new coordinates(array b). If you plot tha array b you will find that the points can be clustered into 2 classes.

I'm sitting here waiting for your help, thanks a lot!

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