Sub:_____

Day

Date: / /

Data > X= { (0.5, 1.0), (0.0, 4.0), (3.5, 2.0), (0.5, -4.5), (-0.5, -3.5) {

Initial centroid, M1 = (-2.5, 0.5) M2 = (2.5, 4.5)

2 means cluster for iterations=2

		0 M	/ 1	•				
centroid	(0.5, 1.0)	(0.0, 4.0)	(3.5, 2.0)	(0.5, -4.5)	(-0.5, -3.5)			
WIZ	3.04	4.30	6.18	5.83	4.47			
-2.5, 0.5								
M2=			N					
2.5, 4.5	4.03	2.54	2.69	9.21	8.54			
elesters	MI	M2	M2	MI	MI			

Sub:

Time:

New 61 = mon me a

= 2/(2.0-2.0+2.0) ===

Date: 7

(0.15, 71.0) cf= (0.5+0.5-0.5)/3.2 0:16705-)=1M New C2, Mean M2011-2.0) + (0.0-2.0) c2 = (0:0+3.5)/2 = 1.75 M2 = (4.0 + 2.0)/2 = 3.0 (1.75, 3.0) (2.0 - 2.5.)(-2.5-(-0.5)) + (0.5-(-0.5)) == (3112 1 2.2 - 2M) (2.2-0.2),+ (4.2-1.0), = 4.0.3 (2.5-2.0) + (4.5-4.0)

(2.6-0.0) + (4.5-6.0) = 2.63 (2.6-0.0) + (4.6-6.0) = 2.63

					7
Men,	M1 = [0.10	67, 2.33	3 6 6 6	1.75, 31	0)
rew	(0.5,1.0)	(0.0,4.0)	(3.5.2.0)	(0.5,-4.5)	(-0.5,-3.5
M(=	11.37	1.67	3.34	6.83	5.86
M2= (1.75,3.0)	2.35	2.01	2.01	7.60	6,87
elusiens =	MI.	Mi	M2.	M	M(
(0.167-0.5)2.	+ (2.33-4.0)2	501.17	(1.75-0.5)~	7 (3.0 -1.0)	1 = 2·35
(0.167-3.5)2	+(2.33-2.6)2 +(2.33-(-4.5))	= 3.34	(1.75-3.5)		
(0.167-(-0.5)) ² +(2-33-(-3" =	5)12=	(1.75-6-6)		
					6.87

Sub:_____

Time: Date: / /

A New CI MI

$$M_1 = (1.0 + 4.0 - 4.5 - 3.5)/4 = -0.75$$

New Cz, MZ

W