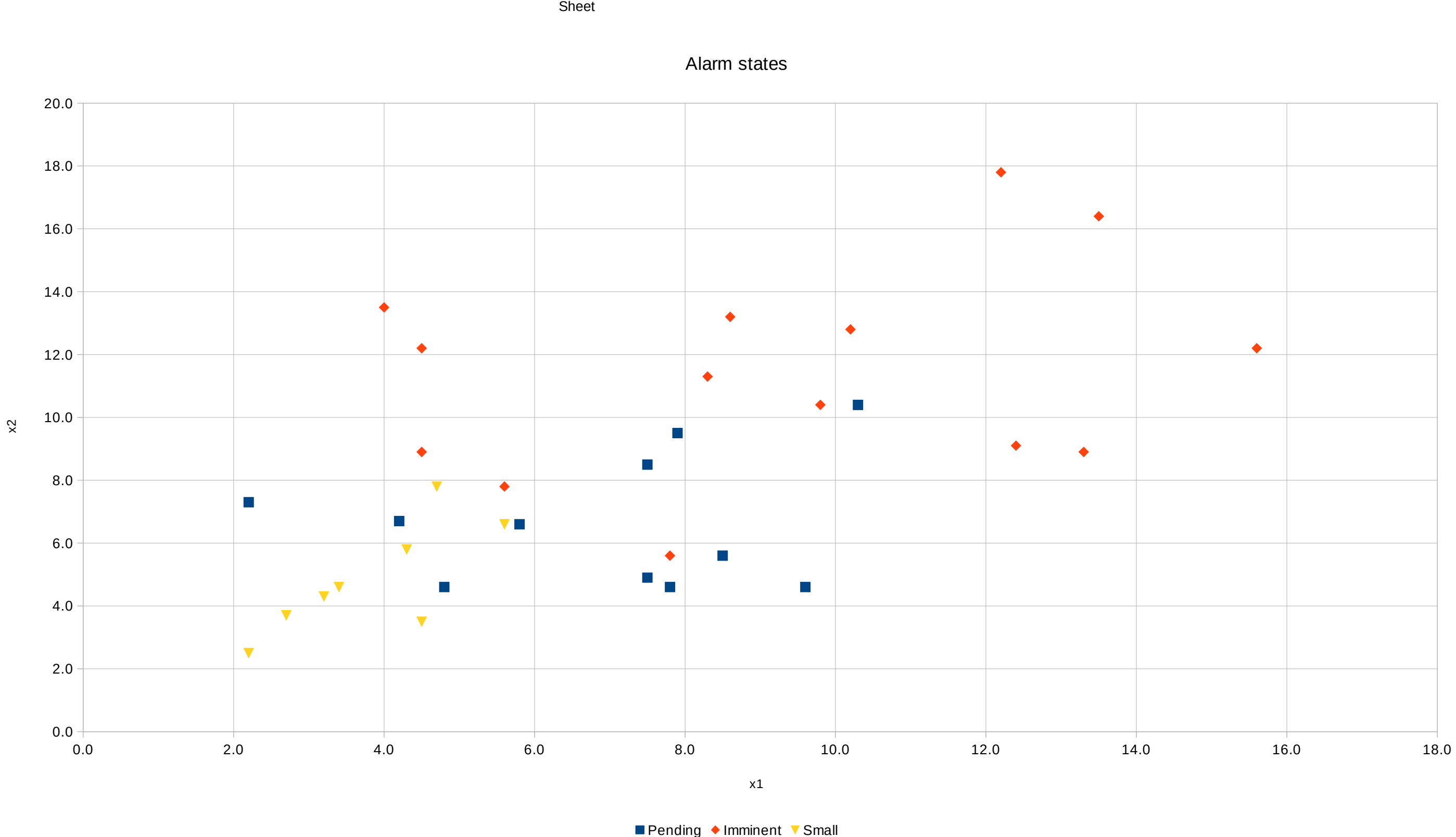


T	X1	X2	State
1	7.5	8.5	Pending
2	2.2	7.3	Pending
3	3.2	4.3	Small
4	4.2	6.7	Pending
5	4.3	5.8	Small
6	4.5	3.5	Small
7	2.2	2.5	Small
8	2.7	3.7	Small
9	4.5	8.9	Imminent
10	8.5	5.6	Pending
11	9.6	4.6	Pending
12	7.5	4.9	Pending
13	4.5	12.2	Imminent
14	4.0	13.5	Imminent
15	8.6	13.2	Imminent
16	10.2	12.8	Imminent
17	12.2	17.8	Imminent
18	13.5	16.4	Imminent
19	15.6	12.2	Imminent
20	10.3	10.4	Pending
21	9.8	10.4	Imminent
22	8.3	11.3	Imminent
23	5.6	7.8	Imminent
24	7.8	5.6	Imminent
25	4.7	7.8	Small
26	7.8	4.6	Pending
27	13.3	8.9	Imminent
28	3.4	4.6	Small
29	5.6	6.6	Small
30	7.9	9.5	Pending
31	5.8	6.6	Pending
32	4.8	4.6	Pending
33	12.4	9.1	Imminent



1  
Averages 7.181818 8.248485

	X1	X2
X1	1	
X2	0.585109	1

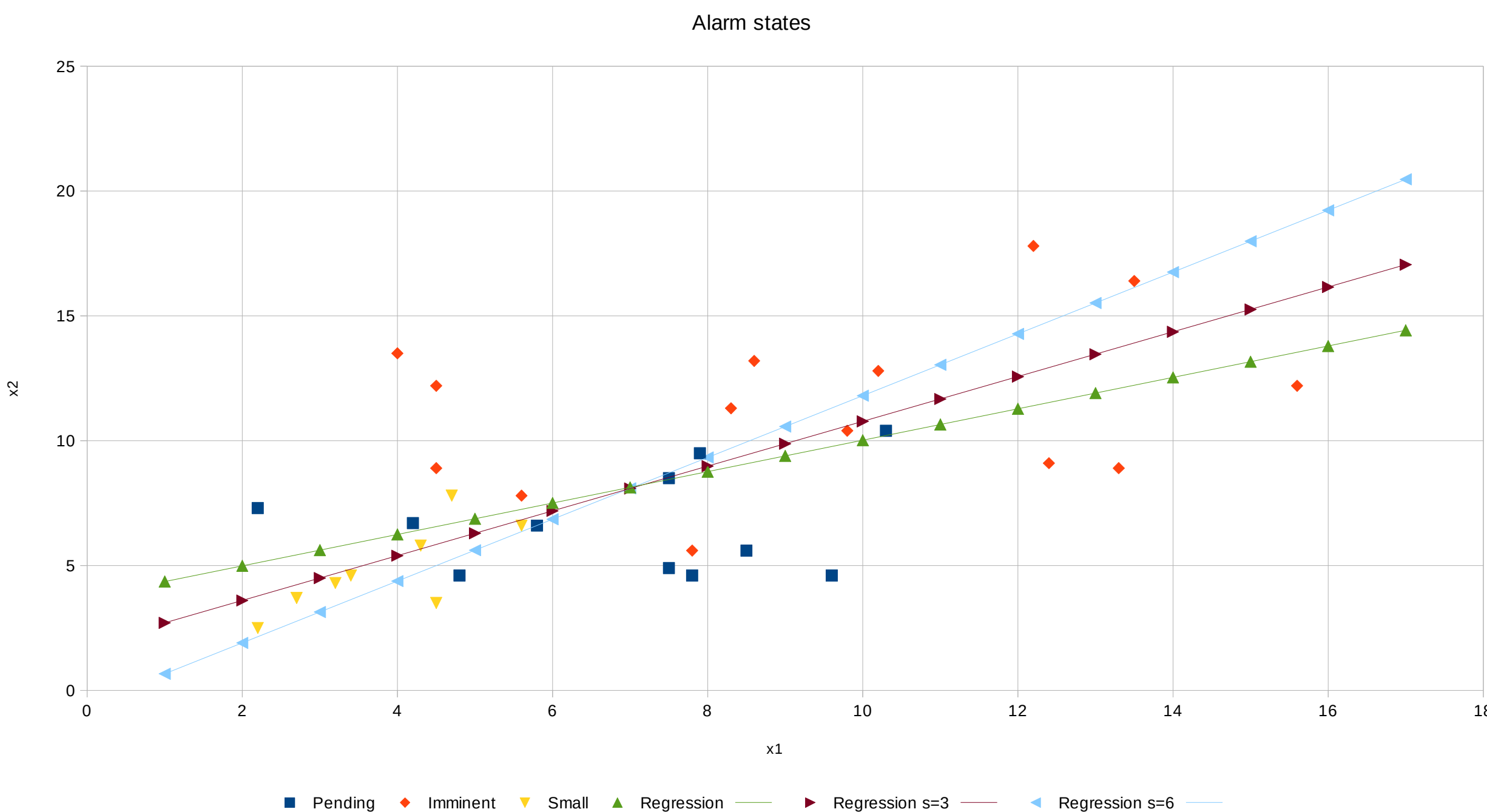
3  
R^2 0.342352  
Slope 0.628726  
Intercept 3.733089

	X1	X2
X1	12.30815	
X2	7.738457	14.21159

5  
R^2 Given by linear regression is 0.34, that means that about 32% of X2 results are determined by X1, whereas 68% is up to pure chance.  
Correlation factor between X1 & X2 is 58%, which means that about 58% of measurements correlate with eachother.  
Therefore I would say that X1 is very bad predictor for X2.

6  
Avg s=3 Avg s=6  
#N/A #N/A  
4.3 #N/A  
3.2 #N/A  
3.9 4.316667  
4.333333 3.433333  
3.666667 3.516667  
3.133333 3.733333  
3.133333 4.45  
5.233333 5.333333  
7.533333 5.833333  
8.533333 6.216667  
7.2 6.433333  
5.333333 7.116667  
5.7 7.4  
7.6 7.833333  
10.333333 8.833333  
11.96667 10.68333  
13.76667 11.73333  
13.13333 11.93333  
11.9 11.61667  
9.466667 10.51667  
7.9 9.566667  
7.233333 7.75  
6.033333 7.333333  
6.766667 7.916667  
8.6 7.1  
8.166667 7.1  
7.433333 7.116667  
5.633333 7.3  
6.433333 6.8  
6.166667 6.65  
7.666667 #N/A  
#N/A #N/A

Corr s=3 Corr s=6  
0.652696 0.743913  
  
Reg s=3 Reg s=6  
R^2 0.426012 0.553407  
Slope 0.896707 1.237765  
Intercept 1.808678 -0.57297



Moving Average with a span of 6 gives a much better correlation, 74% and R^2 equals 55%. Span of 3 gives worse results, but better than X1 by itself.  
Therefore I would say that moving average of X1 with s=6 is a good, but not perfect predictor for X2. This pretty much depends on accuracy you desire.  
75% correlation is good in some cases, bad in others. Given it's alarm system I would require at least 95% correlation.

T=0	T=1	T=2	T=3	T=4	T=5	T=6	T=7	T=8	T=9	T=10
7.5										
2.2	7.5									
3.2	2.2	7.5								
4.2	3.2	2.2	7.5							
4.3	4.2	3.2	2.2	7.5						
4.5	4.3	4.2	3.2	2.2	7.5					
2.2	4.5	4.3	4.2	3.2	2.2	7.5				
2.7	2.2	4.5	4.3	4.2	3.2	2.2	7.5			
4.5	2.7	2.2	4.5	4.3	4.2	3.2	2.2	7.5		
8.5	4.5	2.7	2.2	4.5	4.3	4.2	3.2	2.2	7.5	
9.6	8.5	4.5	2.7	2.2	4.5	4.3	4.2	3.2	2.2	7.5
7.5	9.6	8.5	4.5	2.7	2.2	4.5	4.3	4.2	3.2	2.2
4.5	7.5	9.6	8.5	4.5	2.7	2.2	4.5	4.3	4.2	3.2
4	4.5	7.5	9.6	8.5	4.5	2.7	2.2	4.5	4.3	4.2
8.6	4	4.5	7.5	9.6	8.5	4.5	2.7	2.2	4.5	4.3
10.2	8.6	4	4.5	7.5	9.6	8.5	4.5	2.7	2.2	4.5
12.2	10.2	8.6	4	4.5	7.5	9.6	8.5	4.5	2.7	2.2
13.5	12.2	10.2	8.6	4	4.5	7.5	9.6	8.5	4.5	2.7
15.6	13.5	12.2	10.2	8.6	4	4.5	7.5	9.6	8.5	4.5
10.3	15.6	13.5	12.2	10.2	8.6	4	4.5	7.5	9.6	8.5
9.8	10.3	15.6	13.5	12.2	10.2	8.6	4	4.5	7.5	9.6
8.3	9.8	10.3	15.6	13.5	12.2	10.2	8.6	4	4.5	7.5
5.6	8.3	9.8	10.3	15.6	13.5	12.2	10.2	8.6	4	4.5
7.8	5.6	8.3	9.8	10.3	15.6	13.5	12.2	10.2	8.6	4
4.7	7.8	5.6	8.3	9.8	10.3	15.6	13.5	12.2	10.2	8.6
7.8	4.7	7.8	5.6	8.3	9.8	10.3	15.6	13.5	12.2	10.2
13.3	7.8	4.7	7.8	5.6	8.3	9.8	10.3	15.6	13.5	12.2
3.4	13.3	7.8	4.7	7.8	5.6	8.3	9.8	10.3	15.6	13.5
5.6	3.4	13.3	7.8	4.7	7.8	5.6	8.3	9.8	10.3	15.6
7.9	5.6	3.4	13.3	7.8	4.7	7.8	5.6	8.3	9.8	10.3
5.8	7.9	5.6	3.4	13.3	7.8	4.7	7.8	5.6	8.3	9.8
4.8	5.8	7.9	5.6	3.4	13.3	7.8	4.7	7.8	5.6	8.3
12.4	4.8	5.8	7.9	5.6	3.4	13.3	7.8	4.7	7.8	5.6
	12.4	4.8	5.8	7.9	5.6	3.4	13.3	7.8	4.7	7.8
		12.4	4.8	5.8	7.9	5.6	3.4	13.3	7.8	4.7
			12.4	4.8	5.8	7.9	5.6	3.4	13.3	7.8
				12.4	4.8	5.8	7.9	5.6	3.4	13.3
					12.4	4.8	5.8	7.9	5.6	3.4
						12.4	4.8	5.8	7.9	5.6
							12.4	4.8	5.8	7.9
								12.4	4.8	5.8
									12.4	4.8
										12.4

AutoCorr 0.533135 0.313754 0.284959 0.055584 0.021906 0.175 0.070175 0.007919 -0.09102 -0.26462

T	X1	X2	State	Distance	T	X1	X2	State	Distance	T	X1	X2	State	Distance
34		5	8		35		10	7		36		20	1	
1	6.25	0.25	Pending	6.5	1	6.25	2.25	Pending	8.5	1	156.25	56.25	Pending	212.5
2	7.84	0.49	Pending	8.33	2	60.84	0.09	Pending	60.93	2	316.84	39.69	Pending	356.53
3	3.24	13.69	Small	16.93	3	46.24	7.29	Small	53.53	3	282.24	10.89	Small	293.13
4	0.64	1.69	Pending	2.33	4	33.64	0.09	Pending	33.73	4	249.64	32.49	Pending	282.13
5	0.49	4.84	Small	5.33	5	32.49	1.44	Small	33.93	5	246.49	23.04	Small	269.53
6	0.25	20.25	Small	20.5	6	30.25	12.25	Small	42.5	6	240.25	6.25	Small	246.5
7	7.84	30.25	Small	38.09	7	60.84	20.25	Small	81.09	7	316.84	2.25	Small	319.09
8	5.29	18.49	Small	23.78	8	53.29	10.89	Small	64.18	8	299.29	7.29	Small	306.58
9	0.25	0.81	Imminent	1.06	9	30.25	3.61	Imminent	33.86	9	240.25	62.41	Imminent	302.66
10	12.25	5.76	Pending	18.01	10	2.25	1.96	Pending	4.21	10	132.25	21.16	Pending	153.41
11	21.16	11.56	Pending	32.72	11	0.16	5.76	Pending	5.92	11	108.16	12.96	Pending	121.12
12	6.25	9.61	Pending	15.86	12	6.25	4.41	Pending	10.66	12	156.25	15.21	Pending	171.46
13	0.25	17.64	Imminent	17.89	13	30.25	27.04	Imminent	57.29	13	240.25	125.44	Imminent	365.69
14	1	30.25	Imminent	31.25	14	36	42.25	Imminent	78.25	14	256	156.25	Imminent	412.25
15	12.96	27.04	Imminent	40	15	1.96	38.44	Imminent	40.4	15	129.96	148.84	Imminent	278.8
16	27.04	23.04	Imminent	50.08	16	0.04	33.64	Imminent	33.68	16	96.04	139.24	Imminent	235.28
17	51.84	96.04	Imminent	147.88	17	4.84	116.64	Imminent	121.48	17	60.84	282.24	Imminent	343.08
18	72.25	70.56	Imminent	142.81	18	12.25	88.36	Imminent	100.61	18	42.25	237.16	Imminent	279.41
19	112.36	17.64	Imminent	130	19	31.36	27.04	Imminent	58.4	19	19.36	125.44	Imminent	144.8
20	28.09	5.76	Pending	33.85	20	0.09	11.56	Pending	11.65	20	94.09	88.36	Pending	182.45
21	23.04	5.76	Imminent	28.8	21	0.04	11.56	Imminent	11.6	21	104.04	88.36	Imminent	192.4
22	10.89	10.89	Imminent	21.78	22	2.89	18.49	Imminent	21.38	22	136.89	106.09	Imminent	242.98
23	0.36	0.04	Imminent	0.4	23	19.36	0.64	Imminent	20	23	207.36	46.24	Imminent	253.6
24	7.84	5.76	Imminent	13.6	24	4.84	1.96	Imminent	6.8	24	148.84	21.16	Imminent	170
25	0.09	0.04	Small	0.13	25	28.09	0.64	Small	28.73	25	234.09	46.24	Small	280.33
26	7.84	11.56	Pending	19.4	26	4.84	5.76	Pending	10.6	26	148.84	12.96	Pending	161.8
27	68.89	0.81	Imminent	69.7	27	10.89	3.61	Imminent	14.5	27	44.89	62.41	Imminent	107.3
28	2.56	11.56	Small	14.12	28	43.56	5.76	Small	49.32	28	275.56	12.96	Small	288.52
29	0.36	1.96	Small	2.32	29	19.36	0.16	Small	19.52	29	207.36	31.36	Small	238.72
30	8.41	2.25	Pending	10.66	30	4.41	6.25	Pending	10.66	30	146.41	72.25	Pending	218.66
31	0.64	1.96	Pending	2.6	31	17.64	0.16	Pending	17.8	31	201.64	31.36	Pending	233
32	0.04	11.56	Pending	11.6	32	27.04	5.76	Pending	32.8	32	231.04	12.96	Pending	244
33	54.76	1.21	Imminent	55.97	33	5.76	4.41	Imminent	10.17	33	57.76	65.61	Imminent	123.37
					34	25	1	Small	26	34	225	49	Small	274
										35	100	36	Pending	136

	Imminent	Pending	Small		Imminent	Pending	Small		Imminent	Pending	Small	
1-NN	0	0	1	Small	1-NN	0	1	0 Pending	1-NN	1	0	0 Imminent
2-NN	1	0	1	I/S	2-NN	0	2	0 Pending	2-NN	1	1	0 I/P
3-NN	2	0	1	Imminent	3-NN	1	2	0 Pending	3-NN	2	1	0 Imminent
4-NN	2	0	2	Imminent	4-NN	1	3	0 Pending	4-NN	2	2	0 I/P
5-NN	2	1	2	I/S	5-NN	2	3	0 Pending	5-NN	3	2	0 Imminent
6-NN	2	2	2	I/P/S	6-NN	2	4	0 Pending	6-NN	3	3	0 I/P
7-NN	2	2	3	Small	7-NN	2	5	0 Pending	7-NN	3	4	0 Pending
8-NN	2	3	3	P/S	8-NN	2	6	0 Pending	8-NN	4	4	0 I/P
9-NN	2	4	3	Pending	9-NN	3	6	0 Pending	9-NN	4	5	0 Pending
10-NN	2	5	3	Pending	10-NN	3	7	0 Pending	10-NN	4	6	0 Pending



9

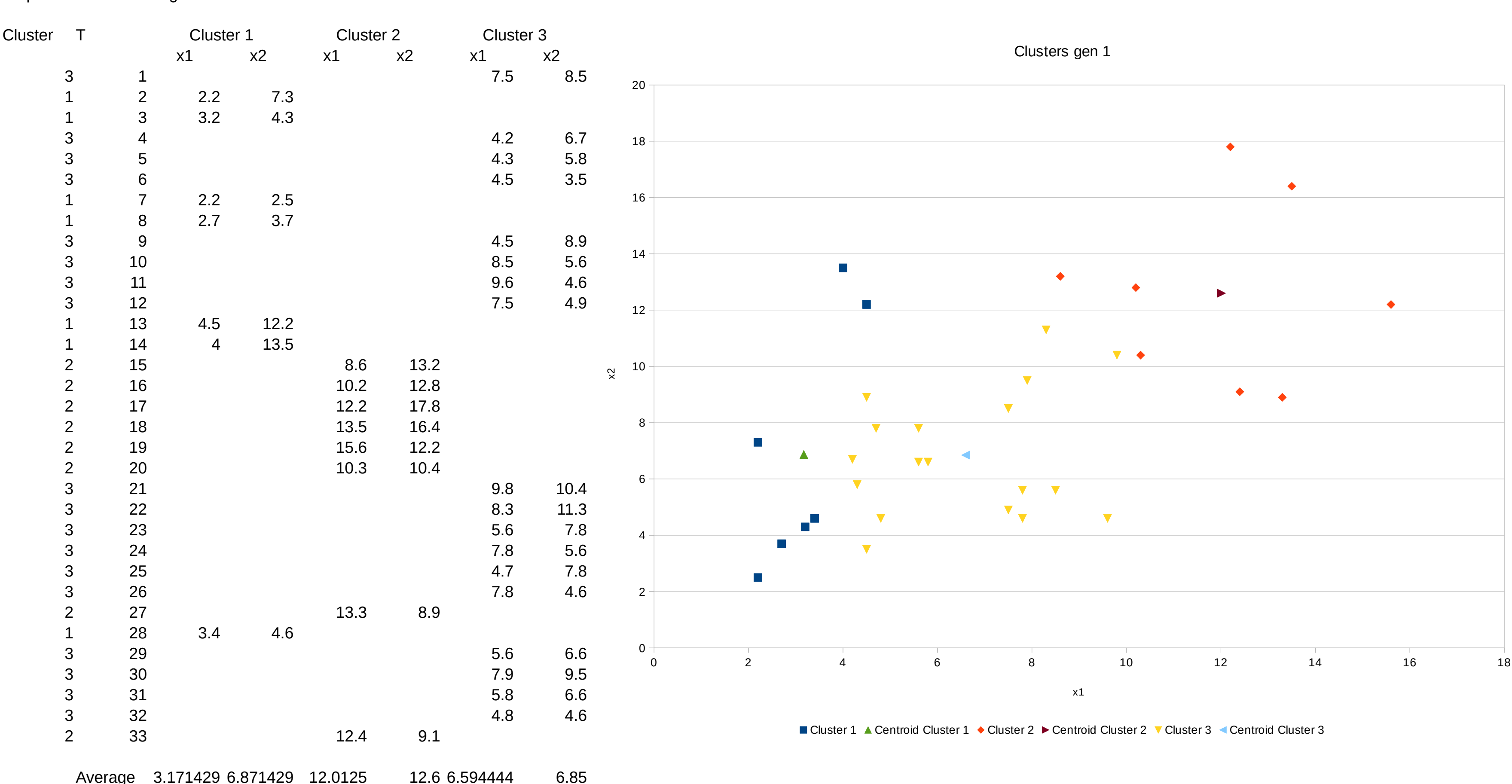
Step 1: Pick out starting points for each cluster

T	X1	X2	State	
1	1	7.5	8.5	Pending
2	2	2.2	7.3	Pending
3	3	3.2	4.3	Small
4	4	4.2	6.7	Pending
5	5	4.3	5.8	Small
6	6	4.5	3.5	Small
7	7	2.2	2.5	Small
8	8	2.7	3.7	Small
9	9	4.5	8.9	Imminent
10	10	8.5	5.6	Pending
11	11	9.6	4.6	Pending
12	12	7.5	4.9	Pending
13	13	4.5	12.2	Imminent
14	14	4	13.5	Imminent
15	15	8.6	13.2	Imminent
16	16	10.2	12.8	Imminent
17	17	12.2	17.8	Imminent
18	18	13.5	16.4	Imminent
19	19	15.6	12.2	Imminent
20	20	10.3	10.4	Pending
21	21	9.8	10.4	Imminent
22	22	8.3	11.3	Imminent
23	23	5.6	7.8	Imminent
24	24	7.8	5.6	Imminent
25	25	4.7	7.8	Small
26	26	7.8	4.6	Pending
27	27	13.3	8.9	Imminent
28	28	3.4	4.6	Small
29	29	5.6	6.6	Small
30	30	7.9	9.5	Pending
31	31	5.8	6.6	Pending
32	32	4.8	4.6	Pending
33	33	12.4	9.1	Imminent

Step 2: Calculate sum of squares distance and cluster number for each entry

T	1	2	3	Min	Choice		
1	29.53	79.3	7.22	7.22	3		
2	0	203.57	12.05	0	1		
3	10	216.17	11.05	10	1		
4	4.36	160.21	1.97	1.97	3		
5	6.66	168.65	2.33	2.33	3		
6	19.73	198.9	10.82	10.82	3		
7	23.04	273.65	28.37	23.04	1		
8	13.21	238.66	16.82	13.21	1		
9	7.85	134.1	6.5	6.5	3		
10	42.58	93.97	9.41	9.41	3		
11	62.05	93.76	20	20	3		
12	33.85	118.9	6.5	6.5	3		
13	29.3	123.21	32.57	29.3	1		
14	41.68	136.25	50.17	41.68	1		
15	75.77	50	52.56	50	2		
16	94.25	29.52	59.6	29.52	2		
17	210.25	42.92	169	42.92	2		
18	210.5	22.05	158.45	22.05	2		
19	203.57	0	131.36	0	2		
20	75.22	31.33	36.53	31.33	2		
21	67.37	36.88	32.08	32.08	3		
22	53.21	54.1	29.38	29.38	3		
23	11.81	119.36	1.44	1.44	3		
24	34.25	104.4	5.84	5.84	3		
25	6.5	138.17	2.25	2.25	3		
26	38.65	118.6	8.84	8.84	3		
27	125.77	16.18	64.58	16.18	2		
28	8.73	206.6	8.84	8.73	1		
29	12.05	131.36	0	0	3		
30	37.33	66.58	13.7	13.7	3		
31	13.45	127.4	0.04	0.04	3	Cluster 1	7
32	14.05	174.4	4.64	4.64	3	Cluster 2	8
33	107.28	19.85	52.49	19.85	2	Cluster 3	18
Sum Squared Error					500.77		

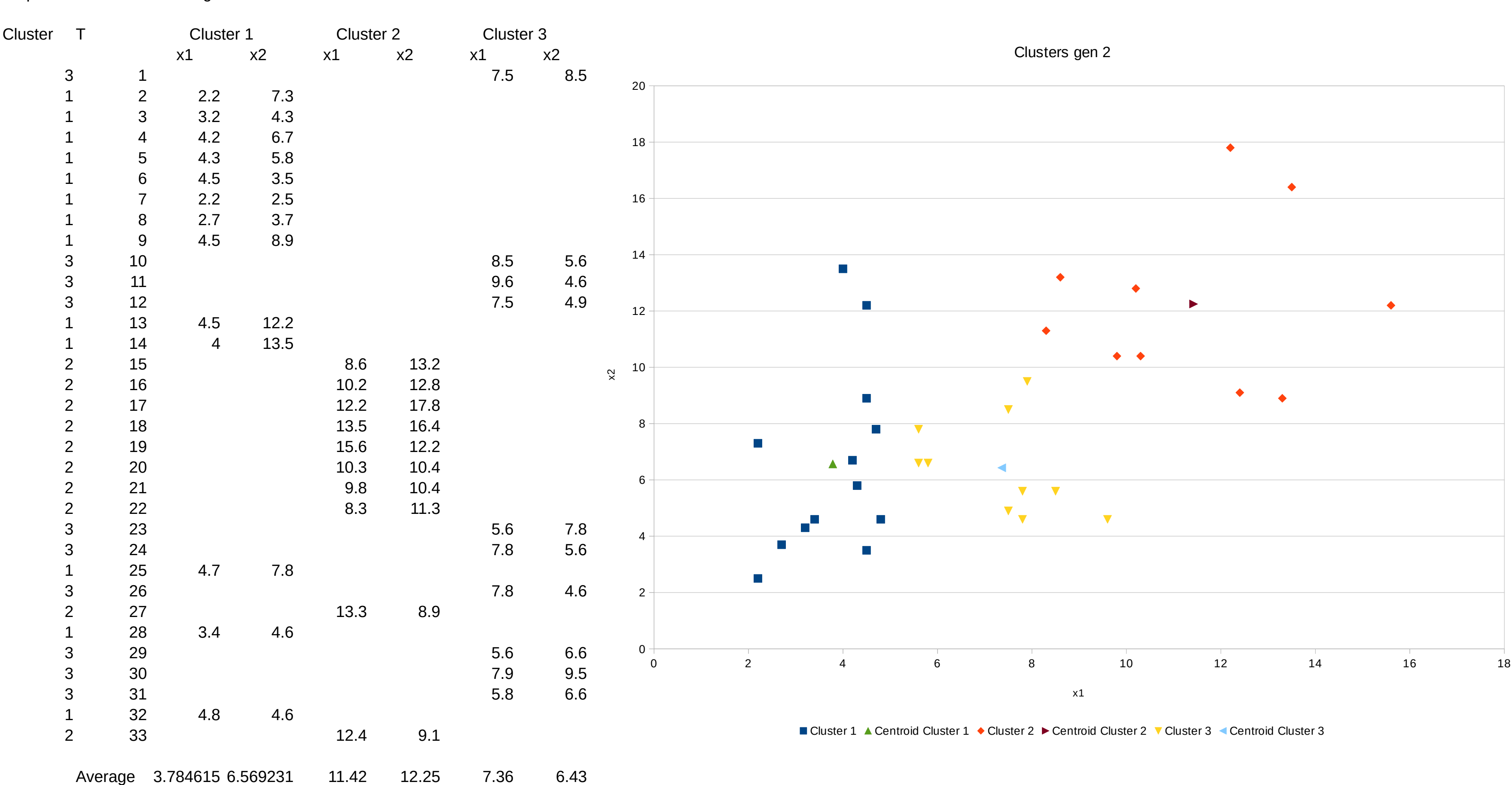
Step 3: Calculate averages for each cluster



Step 4: Repeat Step 2 for new averages calculated in Step 3

T	1	2	3	Min	Choice		
1	21.38878	37.17266	3.542531	3.542531	3		
2	1.127347	124.3752	19.51364	1.127347	1		
3	6.613061	146.5502	18.02475	6.613061	1		
4	1.087347	95.84516	5.755864	1.087347	1		
5	2.421633	105.7227	6.366975	2.421633	1		
6	13.13163	139.2477	15.6092	13.13163	1		
7	20.05306	198.2952	38.23364	20.05306	1		
8	10.2802	165.9327	25.0892	10.2802	1		
9	5.880204	70.12766	8.589198	5.880204	1		
10	30.0102	61.33766	5.193642	5.193642	3		
11	46.48592	69.82016	14.09586	14.09586	3		
12	22.62306	79.65266	4.622531	4.622531	3		
13	30.15878	56.59766	33.0092	30.15878	1		
14	44.62449	65.01016	50.95364	44.62449	1		
15	69.5202	12.00516	44.34475	12.00516	2		
16	84.54878	3.325156	48.40253	3.325156	2		
17	200.9488	27.07516	151.3248	27.07516	2		
18	197.4731	16.65266	138.8892	16.65266	2		
19	182.8631	13.03016	109.7225	13.03016	2		
20	63.26735	7.772656	26.33364	7.772656	2		
21	56.38878	9.735156	22.87809	9.735156	2		
22	45.91449	15.47266	22.71142	15.47266	2		
23	6.760204	64.16016	1.89142	1.89142	3		
24	23.0402	66.74516	3.015864	3.015864	3		
25	3.198776	76.51266	4.49142	3.198776	1		
26	26.58306	81.74516	6.515864	6.515864	3		
27	106.7031	15.34766	49.16698	15.34766	2		
28	5.211633	138.1752	15.26698	5.211633	1		
29	5.971633	77.12016	1.05142	1.05142	3		
30	29.26878	26.52266	8.726975	8.726975	3		
31	6.983061	74.59516	0.693642	0.693642	3	Cluster 1	13
32	7.811633	116.0202	8.282531	7.811633	1	Cluster 2	10
33	90.13306	12.40016	38.76698	12.40016	2	Cluster 3	10
Sum Squared Error					333.7661		

Step 5: Calculate new averages for clusters



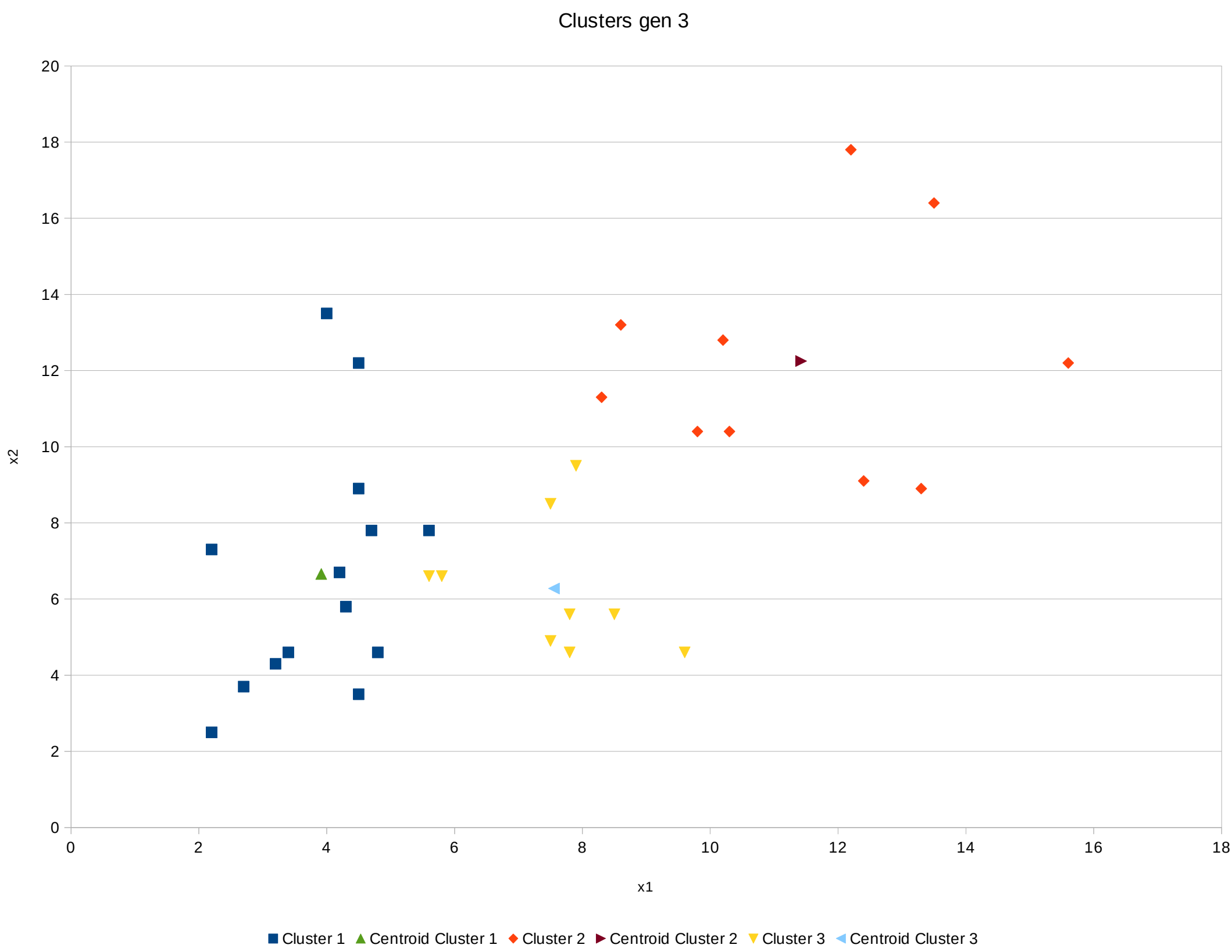
Step 6: Repeat Step 4 for new averages calculated in Step 5

T	123				Choice
	Start1	Start2	Start3	Min	
1	17.53195	29.4289	4.3045	4.3045	3
2	3.04503	109.5109	27.3825	3.04503	1
3	5.491183	130.7709	21.8425	5.491183	1
4	0.189645	82.9309	10.0585	0.189645	1
5	0.857337	92.2969	9.7605	0.857337	1
6	9.931953	124.4489	16.7645	9.931953	1
7	19.06964	180.0709	42.0705	19.06964	1
8	9.408876	149.1409	29.1685	9.408876	1
9	5.94426	59.1089	14.2805	5.94426	1
10	23.17426	52.7489	1.9885	1.9885	3
11	37.69657	61.8349	8.3665	8.3665	3
12	16.59041	69.3889	2.3605	2.3605	3
13	32.21734	47.8889	41.4725	32.21734	1
14	48.08195	56.6189	61.2745	48.08195	1
15	67.15503	8.8549	47.3705	8.8549	2
16	79.97964	1.7909	48.6425	1.7909	2
17	196.9489	31.4109	152.7025	31.4109	2
18	191.0327	21.5489	137.1005	21.5489	2
19	171.3089	17.4749	101.1905	17.4749	2
20	57.12503	4.6769	24.4045	4.6769	2
21	50.85964	6.0469	21.7145	6.0469	2
22	42.76888	10.6369	24.6005	10.6369	2
23	4.810414	53.6749	4.9745	4.810414	1
24	17.06272	57.3269	0.8825	0.8825	3
25	2.352722	64.9609	8.9525	2.352722	1
26	20.00118	71.6269	3.5425	3.5425	3
27	95.97503	14.7569	41.3845	14.7569	2
28	4.025799	122.8429	19.0305	4.025799	1
29	3.296568	65.7949	3.1265	3.1265	3
30	25.5258	19.9529	9.7165	9.7165	3
31	4.062722	63.5069	2.4625	2.4625	3
32	4.908876	102.3469	9.9025	4.908876	1
33	80.62964	10.8829	32.5305	10.8829	2
Sum Squared Error				315.1665	

Cluster 1 14  
Cluster 2 10  
Cluster 3 9

Step 7: Calculate new averages for clusters

Cluster	T	Cluster 1		Cluster 2		Cluster 3	
		x1	x2	x1	x2	x1	x2
3	1					7.5	8.5
1	2	2.2	7.3				
1	3	3.2	4.3				
1	4	4.2	6.7				
1	5	4.3	5.8				
1	6	4.5	3.5				
1	7	2.2	2.5				
1	8	2.7	3.7				
1	9	4.5	8.9				
3	10					8.5	5.6
3	11					9.6	4.6
3	12					7.5	4.9
1	13	4.5	12.2				
1	14	4	13.5				
2	15			8.6	13.2		
2	16			10.2	12.8		
2	17			12.2	17.8		
2	18			13.5	16.4		
2	19			15.6	12.2		
2	20			10.3	10.4		
2	21			9.8	10.4		
2	22			8.3	11.3		
1	23	5.6	7.8				
3	24					7.8	5.6
1	25	4.7	7.8				
3	26					7.8	4.6
2	27			13.3	8.9		
1	28	3.4	4.6				
3	29					5.6	6.6
3	30					7.9	9.5
3	31					5.8	6.6
1	32	4.8	4.6				
2	33			12.4	9.1		
Average		3.914286	6.657143	11.42	12.25	7.555556	6.277778



Step 8: Repeat Step 6 for new averages calculated in Step 7

T	123				Choice
	Start1	Start2	Start3	Min	
1	16.25347	29.4289	4.941358	4.941358	3
2	3.352041	109.5109	29.72691	3.352041	1
3	6.066327	130.7709	22.88247	6.066327	1
4	0.083469	82.9309	11.43802	0.083469	1
5	0.883469	92.2969	10.82691	0.883469	1
6	10.31061	124.4489	17.05247	10.31061	1
7	20.22061	180.0709	42.95358	20.22061	1
8	10.21918	149.1409	30.22136	10.21918	1
9	5.373469	59.1089	16.21247	5.373469	1
10	22.14633	52.7489	1.351358	1.351358	3
11	36.55918	61.8349	6.994691	6.994691	3
12	15.9449	69.3889	1.901358	1.901358	3
13	31.06633	47.8889	44.40914	31.06633	1
14	46.83204	56.6189	64.80247	46.83204	1
15	64.7649	8.8549	49.00802	8.8549	2
16	77.2449	1.7909	49.53247	1.7909	2
17	192.8163	31.4109	154.3325	31.4109	2
18	186.8092	21.5489	137.7958	21.5489	2
19	167.2792	17.4749	99.7858	17.4749	2
20	54.78633	4.6769	24.52469	4.6769	2
21	48.65061	6.0469	22.03025	6.0469	2
22	40.79061	10.6369	25.77691	10.6369	2
23	4.147755	53.6749	6.141358	4.147755	1
24	16.21633	57.3269	0.519136	0.519136	3
25	1.923469	64.9609	10.47136	1.923469	1
26	19.33061	71.6269	2.874691	2.874691	3
27	93.12204	14.7569	39.87469	14.7569	2
28	4.496327	122.8429	20.08358	4.496327	1
29	2.844898	65.7949	3.928025	2.844898	1
30	23.96776	19.9529	10.50136	10.50136	3
31	3.559184	63.5069	3.185802	3.185802	3
32	5.016327	102.3469	10.40802	5.016327	1
33	77.9749	10.8829	31.43358	10.8829	2
Sum Squared Error				313.1871	

Cluster 1 15  
Cluster 2 10  
Cluster 3 8

Step 9: Terminate since Sum Squared Error has not improved much (also cannot be bothered to do it any more)

Cluster	T	Cluster 1		Cluster 2		Cluster 3	
		x1	x2	x1	x2	x1	x2
3	1					7.5	8.5
1	2	2.2	7.3				
1	3	3.2	4.3				
1	4	4.2	6.7				
1	5	4.3	5.8				
1	6	4.5	3.5				
1	7	2.2	2.5				
1	8	2.7	3.7				
1	9	4.5	8.9				
3	10					8.5	5.6
3	11					9.6	4.6
3	12					7.5	4.9
1	13	4.5	12.2				
1	14	4	13.5				
2	15			8.6	13.2		
2	16			10.2	12.8		
2	17			12.2	17.8		
2	18			13.5	16.4		
2	19			15.6	12.2		
2	20			10.3	10.4		
2	21			9.8	10.4		
2	22			8.3	11.3		
1	23	5.6	7.8				
3	24					7.8	5.6
1	25	4.7	7.8				
3	26					7.8	4.6
2	27			13.3	8.9		
1	28	3.4	4.6				
1	29	5.6	6.6				
3	30					7.9	9.5
3	31					5.8	6.6
1	32	4.8	4.6				
2	33			12.4	9.1		
Average		4.026667	6.653333	11.42	12.25	7.8	6.2375

