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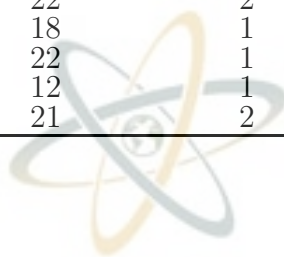
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LAMPIRAN

Lampiran 1: Data Awal

No	Nama Mahasiswa	Usia Awal Merokok	Jumlah Rokok (Bungkus)	Prodi	Jenis Rokok	Faktor Merokok
1	Fauzan	15	2	2	3	2
2	Abdul	17	1	2	3	1
3	Rizki	13	2	1	1	1
4	Rafly	11	2	3	3	2
5	Iwal	14	1	2	1	3
6	Fauzan	13	2	2	3	2
7	Jabal	16	3	1	2	1
8	Pradana	14	2	3	2	1
9	Shafwan	17	1	3	3	2
10	Amri	14	2	1	3	3
11	Dimas	12	1	1	1	2
12	Imam	18	2	1	1	1
13	Joko	13	3	5	3	3
14	Daffa	21	3	1	1	2
15	Yusri	20	2	1	3	2
16	Haziq	16	2	2	3	3
17	Rizky	20	1	3	3	2
18	Handika	15	1	2	2	1
19	Febri	14	3	3	3	2
20	Rio	22	2	1	3	2
21	Fitra	17	2	3	3	1
22	Arya	14	2	2	3	2
23	Iku	13	3	3	1	2
24	Azriel	15	2	1	2	1
25	Mahzura	18	3	2	1	2
26	Cahaya	15	1	2	3	2
27	Miftah	20	3	2	3	2
28	Arafath	18	3	3	3	2
29	Adji	17	2	2	1	1
30	Rafiq	17	1	2	2	2
31	Dimas	15	1	2	2	2
32	Arief	12	3	3	1	2
33	Arda	16	2	3	3	2
34	Zaky	14	1	4	3	1
35	Wahyu	13	1	4	1	3
36	Friza	15	1	4	1	3
37	Ferdy	19	2	2	2	1
38	Pai	22	3	1	2	2
39	Rizky	16	1	5	2	1
40	Amir	11	1	5	2	2
41	Idam	13	1	3	3	2
42	Hakim	21	2	1	1	2
43	Zery	21	1	1	1	2
44	Irfan	19	1	2	2	2
45	Ridho	11	1	2	3	3
46	Qaddafi	13	2	1	3	3
47	Irfan	20	1	3	2	2
48	Firli	18	3	3	1	2
49	Firman	21	2	2	1	1
50	Robi	23	2	5	2	2

No	Nama Mahasiswa	Usia Awal Merokok	Jumlah Rokok (Bungkus)	Prodi	Jenis Rokok	Faktor Merokok
51	Andre	12	1	2	2	1
52	Nabil	22	2	1	2	2
53	Wahyu	14	1	5	3	1
54	Hariri	17	1	5	3	2
55	Bayhaqi	21	1	5	1	2
56	Damar	22	2	3	3	2
57	Fajar	20	2	3	3	2
58	Rizki	20	1	3	2	2
59	Farhan	15	3	3	1	2
60	Wira	16	1	3	1	3
61	Nazhifa	22	2	1	2	1
62	Ridwan	18	1	4	3	2
63	Apra	22	1	4	3	2
64	Pratama	12	1	1	2	2
65	Reval	21	2	2	1	2



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Lampiran 2 : Hasil Perhitungan *Cluster* dengan Menggunakan Iterasi1 sampai dengan Iterasi 9 serta *Centroid* Pada Masing-Masing Iterasi.

Centroid Pertama Pengelompokan dengan $k = 3$:

Objek ke-i	<i>Centroid</i>	Indeks Variabel ke- (p)				
		1	2	3	4	5
46	c_1	13	2	1	3	3
51	c_2	12	1	2	2	1
59	c_3	15	3	3	1	2

Iterasi ke-1:

Hasil Perhitungan Jarak Pada Iterasi 1 *Clustering* dengan $k=3$

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	8,196	14,196	5,196	5,196	3
2	21,196	27,098	14,294	14,294	3
3	4,196	6,196	9,196	4,196	1
4	8,196	8,294	19,098	8,196	1
5	6,196	8,196	9,196	6,196	1
6	4,196	6,196	9,196	4,196	1
7	14,196	22,098	7,294	7,294	3
8	7,294	7,098	6,196	6,196	3
9	21,196	31,294	10,098	10,098	3
10	1	11,294	8,294	1	1
11	6,196	6,294	15,098	6,196	1
12	29,196	41,196	14,196	14,196	3
13	3,098	11,294	10,294	3,098	1
14	69,196	91,294	38,098	38,098	3
15	51,098	71,294	30,196	30,196	3
16	11,098	21,196	8,294	8,294	3
17	54,196	70,294	31,098	31,098	3
18	11,294	9	10,294	9	2
19	6,196	14,294	3,098	3,098	3
20	83,098	107,294	54,196	54,196	3
21	20,196	30,196	9,196	9,196	3
22	5,196	9,196	6,196	5,196	1
23	7,294	11,294	4	4	3
24	8,196	12,098	7,294	7,294	3
25	32,294	44,196	11,098	11,098	3
26	9,196	13,196	8,196	8,196	3
27	54,196	72,196	29,196	29,196	3
28	30,196	46,294	11,098	11,098	3
29	22,294	28,098	9,196	9,196	3
30	23,294	27,098	12,196	12,196	3
31	11,294	11,098	8,196	8,196	3
32	8,294	10,294	9	8,294	1
33	13,196	23,294	4,098	4,098	3
34	6,196	8,196	11,294	6,196	1
35	5,196	7,294	12,196	5,196	1
36	9,196	15,294	8,196	8,196	3
37	42,294	50	23,294	23,294	3
38	86,196	108,196	53,196	53,196	3
39	16,294	18,098	11,294	11,294	3
40	11,294	5,196	24,196	5,196	2
41	5,196	7,294	10,098	5,196	1
42	68,196	88,294	39,098	39,098	3

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
43	69,196	87,294	42,098	42,098	3
44	43,294	51,098	24,196	24,196	3
45	7,098	5,196	26,294	5,196	2
46	0	8,294	11,294	0	1
47	56,294	68,196	31,098	31,098	3
48	32,294	46,294	9	9	3
49	70,294	84,098	41,196	41,196	3
50	106,294	126,196	69,196	69,196	3
51	8,294	0	19,294	0	2
52	85,196	105,196	54,196	54,196	3
53	6,196	8,196	11,294	6,196	1
54	21,196	31,294	12,196	12,196	3
55	71,294	87,294	42,098	42,098	3
56	85,196	107,294	52,098	52,098	3
57	53,196	71,294	28,098	28,098	3
58	56,294	68,196	31,098	31,098	3
59	11,294	19,294	0	0	3
60	14,196	22,294	7,098	7,098	3
61	85,196	103,098	56,294	56,294	3
62	30,196	42,294	17,196	17,196	3
63	86,196	106,294	57,196	57,196	3
64	6,196	4,196	17,196	4,196	2
65	70,294	86,196	39,098	39,098	3

Iterasi 2 dari Pengelompokan *Centroid* dengan k=3:

Centroid	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	13,071	1,714	1	3	2
c_2	12,2	1	2	2	1
c_3	18,304	1,848	3	3	2

Iterasi 2

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	5,901	13,036	13,038	5,901	1
2	20,143	25,138	6,616	6,616	3
3	4,283	5,836	34,450	4,283	1
4	6,469	8,734	53,372	6,469	1
5	7,667	7,436	25,538	7,436	2
6	2,185	5,836	30,254	2,185	1
7	14,429	20,538	12,930	12,930	3
8	7,239	6,338	22,744	6,338	2
9	18,045	29,334	2,420	2,420	3
10	3,043	10,534	22,744	3,043	1
11	3,755	6,334	44,656	3,755	1
12	28,573	38,836	6,410	6,410	3
13	5,855	10,934	33,656	5,855	1
14	66,621	87,734	12,792	12,792	3
15	48,093	68,134	4,998	4,998	3
16	12,857	19,636	9,528	9,528	3
17	50,619	67,134	3,596	3,596	3
18	10,525	7,840	17,930	7,840	2
19	4,615	13,534	19,852	4,615	1
20	79,809	103,334	15,782	15,782	3
21	19,715	28,236	3,822	3,822	3
22	3,043	8,436	20,646	3,043	1
23	5,855	10,934	31,558	5,855	1

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
24	7,999	10,938	17,234	7,999	1
25	30,145	41,836	5,616	5,616	3
26	6,329	12,036	13,734	6,329	1
27	51,763	69,036	6,302	6,302	3
28	28,047	43,934	1,420	1,420	3
29	21,813	26,138	8,018	8,018	3
30	20,143	25,138	6,616	6,616	3
31	8,427	9,938	15,832	8,427	1
32	6,997	10,334	43,166	6,997	1
33	10,759	21,734	5,332	5,332	3
34	5,569	7,436	23,440	5,569	1
35	6,809	6,934	35,146	6,809	1
36	10,525	14,134	17,930	10,525	1
37	41,529	47,240	6,802	6,802	3
38	83,479	104,236	19,184	19,184	3
39	15,383	16,538	12,322	12,322	3
40	8,995	5,636	58,264	5,636	2
41	2,613	6,934	28,852	2,613	1
42	65,477	83,734	11,488	11,488	3
43	65,477	83,734	12,184	12,184	3
44	39,859	48,338	5,400	5,400	3
45	8,995	5,636	58,264	5,636	2
46	2,613	6,934	28,852	2,613	1
47	52,717	65,036	5,694	5,694	3
48	30,145	43,934	3,518	3,518	3
49	69,245	80,538	13,586	13,586	3
50	102,863	121,836	26,272	26,272	3
51	7,951	0,040	46,754	0,040	2
52	81,907	101,236	17,880	17,880	3
53	5,569	7,436	23,440	5,569	1
54	18,045	29,334	4,518	4,518	3
55	67,575	83,734	12,184	12,184	3
56	81,907	103,334	13,684	13,684	3
57	50,191	68,134	2,900	2,900	3
58	52,717	65,036	5,694	5,694	3
59	9,571	18,134	14,342	9,571	1
60	15,383	20,734	10,224	10,224	3
61	84,005	99,138	19,978	19,978	3
62	26,903	39,934	2,910	2,910	3
63	82,335	102,334	16,478	16,478	3
64	3,755	4,236	44,656	3,755	1
65	67,147	82,636	11,488	11,488	3

Iterasi 3 dari Pengelompokan *Centroid* dengan k=3:

Centroid	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	13,545	1,818	1	3	2
c_2	12,833	1,167	2	2	1
c_3	19,216	1,811	3	3	2

Iterasi 3

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	4,248	9,586	19,908	4,248	1
2	16,802	19,490	9,764	9,764	3
3	4,526	4,918	44,968	4,526	1
4	8,608	10,348	67,538	8,608	1
5	7,170	5,586	34,158	5,586	2
6	2,428	4,918	40,772	2,428	1
7	11,620	15,488	18,050	11,620	1
8	6,534	4,154	31,438	4,154	2
9	14,704	23,686	5,568	5,568	3
10	2,338	8,350	31,438	2,338	1
11	5,154	7,016	56,924	5,154	1
12	24,076	31,588	7,808	7,808	3
13	5,890	9,682	44,248	5,890	1
14	59,072	76,354	8,792	8,792	3
15	41,700	58,354	2,748	2,748	3
16	10,256	14,920	14,574	10,256	1
17	44,434	57,688	1,272	1,272	3
18	9,080	4,724	24,726	4,724	2
19	3,702	11,016	28,620	3,702	1
20	71,520	91,022	9,884	9,884	3
21	16,166	22,254	7,044	7,044	3
22	2,338	6,252	29,340	2,338	1
23	5,890	9,682	42,150	5,890	1
24	6,346	7,488	24,104	6,346	1
25	25,440	34,254	7,088	7,088	3
26	4,884	8,920	20,530	4,884	1
27	45,162	58,922	4,126	4,126	3
28	23,342	36,352	2,892	2,892	3
29	18,264	20,156	11,240	11,240	3
30	16,802	19,490	9,764	9,764	3
31	6,982	6,822	22,628	6,822	2
32	7,980	10,348	55,582	7,980	1
33	8,158	17,018	10,378	8,158	1
34	5,072	5,586	32,060	5,072	1
35	7,260	6,350	45,590	6,350	2
36	9,080	11,018	24,726	9,080	1
37	36,084	38,726	6,376	6,376	3
38	74,982	91,590	13,360	13,360	3
39	12,990	12,156	17,294	12,156	2
40	11,342	7,584	72,356	7,584	2
41	3,064	6,350	39,296	3,064	1
42	57,708	73,688	7,414	7,414	3
43	58,344	73,022	8,036	8,036	3
44	34,622	40,158	4,900	4,900	3
45	11,342	7,584	72,356	7,584	2
46	2,428	7,016	42,870	2,428	1
47	46,532	55,590	3,370	3,370	3
48	25,440	36,352	4,990	4,990	3
49	61,904	69,492	9,512	9,512	3
50	93,626	108,258	18,550	18,550	3
51	9,350	0,722	59,022	0,722	2
52	73,618	88,924	11,982	11,982	3
53	5,072	5,586	32,060	5,072	1
54	14,704	23,686	7,666	7,666	3
55	60,442	73,022	8,036	8,036	3
56	73,618	91,022	7,786	7,786	3
57	43,798	58,354	0,650	0,650	3
58	46,532	55,590	3,370	3,370	3
59	7,710	14,350	21,286	7,710	1

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
60	12,990	16,352	15,196	12,990	1
61	75,716	86,826	14,080	14,080	3
62	22,614	33,020	4,234	4,234	3
63	74,254	90,356	10,506	10,506	3
64	5,154	4,918	56,924	4,918	2
65	59,806	71,590	7,414	7,414	3

Iterasi 4 dari Pengelompokan *Centroid* dengan k=3:

Centroid	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	14	1,957	3	3	2
c_2	13,3	1,1	2	2	1
c_3	19,719	1,813	2	3	2

Iterasi 4

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	3,100	7,896	22,304	3,100	1
2	14,112	15,798	10,152	10,152	3
3	7,296	5,096	51,474	5,096	2
4	9,002	12,394	78,154	9,002	1
5	7,210	4,696	37,564	4,696	2
6	3,100	5,096	45,180	3,100	1
7	11,382	12,998	21,534	11,382	1
8	4,198	3,398	39,036	3,398	2
9	9,916	19,994	10,152	9,916	1
10	4,198	7,594	36,938	4,198	1
11	9,112	7,994	64,440	7,994	2
12	22,296	27,096	9,284	9,284	3
13	6,284	9,994	50,750	6,284	1
14	54,284	69,194	7,246	7,246	3
15	38,100	51,994	2,212	2,212	3
16	8,198	12,296	15,964	8,198	1
17	36,916	51,194	2,838	2,838	3
18	8,210	2,900	27,126	2,900	2
19	1,088	10,394	36,214	1,088	1
20	66,100	82,794	7,336	7,336	3
21	11,100	18,696	11,624	11,100	1
22	2,100	5,496	32,742	2,100	1
23	4,186	9,994	50,750	4,186	1
24	7,296	5,798	28,598	5,798	2
25	21,284	29,896	6,462	6,462	3
26	4,014	7,096	22,930	4,014	1
27	39,186	52,696	1,488	1,488	3
28	17,088	31,994	6,462	6,462	3
29	15,296	16,598	11,624	11,624	3
30	14,112	15,798	10,152	10,152	3
31	6,112	4,998	25,028	4,998	2
32	7,186	11,594	65,188	7,186	1
33	4,002	14,394	15,964	4,002	1
34	5,112	4,696	37,564	4,696	2
35	8,210	6,394	52,100	6,394	2
36	8,210	9,194	29,224	8,210	1
37	31,296	33,300	4,748	4,748	3
38	69,284	83,496	10,808	10,808	3
39	11,210	9,398	20,786	9,398	2
40	14,112	9,496	80,878	9,496	2

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
41	1,916	6,394	47,904	1,916	1
42	53,198	66,394	5,872	5,872	3
43	54,112	65,594	6,498	6,498	3
44	30,112	34,598	3,276	3,276	3
45	14,112	9,496	78,780	9,496	2
46	5,198	7,194	49,376	5,198	1
47	39,014	49,096	4,936	4,936	3
48	19,186	31,994	8,560	8,560	3
49	55,296	62,198	5,872	5,872	3
50	85,198	99,096	14,996	14,996	3
51	11,210	1,700	64,440	1,700	2
52	68,198	80,696	9,434	9,434	3
53	5,112	4,696	37,564	4,696	2
54	12,014	19,994	10,152	10,152	3
55	54,112	65,594	6,498	6,498	3
56	64,002	82,794	7,336	7,336	3
57	36,002	51,994	2,212	2,212	3
58	39,014	49,096	4,936	4,936	3
59	4,186	12,794	27,874	4,186	1
60	9,112	13,594	20,786	9,112	1
61	70,296	78,598	11,532	11,532	3
62	19,014	28,394	5,714	5,714	3
63	67,014	81,994	7,962	7,962	3
64	9,112	5,896	64,440	5,896	2
65	53,198	64,296	3,774	3,774	3

Iterasi 5 dari Pengelompokan *Centroid* dengan k=3:

<i>Centroid</i>	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	13,091	2,05	3	3	2
c_2	13,4	1,2	2	2	1
c_3	19,9	1,833	2	3	2

Iterasi 5

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	5,745	7,396	24,038	5,745	1
2	20,579	15,098	11,202	11,202	3
3	6,305	4,996	53,932	4,996	2
4	4,375	12,694	81,336	4,375	1
5	8,223	4,596	39,700	4,596	2
6	2,109	4,996	47,638	2,109	1
7	15,659	12,098	22,866	12,098	2
8	5,025	3,098	41,132	3,098	2
9	16,383	19,294	11,202	11,202	3
10	5,025	7,294	39,034	5,025	1
11	6,489	8,294	67,300	6,489	1
12	30,395	25,996	9,932	9,932	3
13	5,107	9,694	53,168	5,107	1
14	67,651	67,294	6,768	6,768	3
15	49,835	50,494	2,136	2,136	3
16	12,661	11,596	17,336	11,596	2
17	48,837	49,894	2,802	2,802	3
18	11,041	2,600	28,900	2,600	2
19	1,729	9,894	38,270	1,729	1
20	81,471	80,894	6,536	6,536	3
21	17,381	17,796	12,634	12,634	3

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
22	2,927	5,196	34,838	2,927	1
23	3,009	9,694	53,168	3,009	1
24	9,941	5,298	30,332	5,298	2
25	29,197	28,596	7,070	7,070	3
26	6,845	6,796	24,704	6,796	2
27	50,735	50,996	1,372	1,372	3
28	25,001	30,694	7,070	7,070	3
29	21,577	15,698	12,634	12,634	3
30	20,579	15,098	11,202	11,202	3
31	8,943	4,698	26,802	4,698	2
32	4,191	11,494	67,968	4,191	1
33	8,465	13,694	17,336	8,465	1
34	6,125	4,596	39,700	4,596	2
35	7,405	6,494	54,598	6,494	2
36	11,041	8,894	30,998	8,894	2
37	41,213	32	5,034	5,034	3
38	84,469	81,396	9,968	9,968	3
39	15,859	8,898	22,198	8,898	2
40	9,671	9,996	84,100	9,671	1
41	1,111	6,494	50,402	1,111	1
42	66,751	64,694	5,434	5,434	3
43	67,851	64,094	6,100	6,100	3
44	40,215	33,498	3,602	3,602	3
45	9,671	9,996	82,002	9,671	1
46	4,207	7,094	51,834	4,207	1
47	50,935	47,796	4,900	4,900	3
48	27,099	30,694	9,168	9,168	3
49	68,849	60,498	5,434	5,434	3
50	102,387	96,996	13,834	13,834	3
51	8,587	2	67,300	2	2
52	83,569	78,796	8,634	8,634	3
53	6,125	4,596	39,700	4,596	2
54	18,481	19,294	11,202	11,202	3
55	67,851	64,094	6,100	6,100	3
56	79,373	80,894	6,536	6,536	3
57	47,737	50,494	2,136	2,136	3
58	50,935	47,796	4,900	4,900	3
59	6,645	12,094	29,568	6,645	1
60	13,761	13,094	22,198	13,094	2
61	85,667	76,698	10,732	10,732	3
62	27,299	27,494	6,402	6,402	3
63	82,571	80,294	7,202	7,202	3
64	6,489	6,196	67,300	6,196	2
65	66,751	62,596	3,336	3,336	3

Iterasi 6 dari Pengelompokan *Centroid* dengan k=3:

Centroid	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	13,125	2,063	3	3	2
c_2	14,412	1,353	2	2	1
c_3	19,719	1,813	2	3	2

Iterasi 6

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	5,618	4,960	22,304	4,960	2
2	20,342	8,920	10,152	8,920	2
3	6,314	6,608	51,474	6,314	1
4	4,520	18,354	78,154	4,520	1
5	8,190	4,490	37,564	4,490	2
6	2,118	6,608	45,180	2,118	1
7	15,438	7,332	21,534	7,332	2
8	4,966	2,686	39,036	2,686	2
9	16,146	13,116	10,152	10,152	3
10	4,966	6,882	36,938	4,966	1
11	6,592	12,236	64,440	6,592	1
12	30,064	17,488	9,284	9,284	3
13	5,090	11	50,750	5,090	1
14	67,090	52,408	7,246	7,246	3
15	49,368	37,938	2,212	2,212	3
16	12,466	7,136	15,964	7,136	2
17	48,396	37,644	2,838	2,838	3
18	10,940	0,470	27,126	0,470	2
19	1,644	9,176	36,214	1,644	1
20	80,868	64,290	7,336	7,336	3
21	17,118	11,312	11,624	11,312	2
22	2,868	4,784	32,742	2,868	1
23	2,992	11	50,750	2,992	1
24	9,814	2,862	28,598	2,862	2
25	28,840	19,782	6,462	6,462	3
26	6,744	4,666	22,930	4,666	2
27	50,242	38,134	1,488	1,488	3
28	24,644	21,880	6,462	6,462	3
29	21,314	9,214	11,624	9,214	2
30	20,342	8,920	10,152	8,920	2
31	8,842	2,568	25,028	2,568	2
32	4,242	14,824	65,188	4,242	1
33	8,270	9,234	15,964	8,270	1
34	6,092	4,490	37,564	4,490	2
35	7,440	8,412	52,100	7,440	1
36	10,940	6,764	29,224	6,764	2
37	40,814	21,468	4,748	4,748	3
38	83,840	64,486	10,808	10,808	3
39	15,690	4,744	20,786	4,744	2
40	9,842	15,962	80,878	9,842	1
41	1,146	8,412	47,904	1,146	1
42	66,216	50,114	5,872	5,872	3
43	67,342	49,820	6,498	6,498	3
44	39,842	23,272	3,276	3,276	3
45	9,842	15,962	78,780	9,842	1
46	4,216	8,706	49,376	4,216	1
47	50,494	35,546	4,936	4,936	3
48	26,742	21,880	8,560	8,560	3
49	68,314	45,918	5,872	5,872	3
50	101,716	78,368	14,996	14,996	3
51	8,690	5,942	64,440	5,942	2
52	82,966	62,192	9,434	9,434	3
53	6,092	4,490	37,564	4,490	2
54	18,244	13,116	10,152	10,152	3
55	67,342	49,820	6,498	6,498	3
56	78,770	64,290	7,336	7,336	3
57	47,270	37,938	2,212	2,212	3
58	50,494	35,546	4,936	4,936	3
59	6,492	9,352	27,874	6,492	1

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
60	13,592	8,940	20,786	8,940	2
61	85,064	60,094	11,532	11,532	3
62	26,994	19,292	5,714	5,714	3
63	81,994	63,996	7,962	7,962	3
64	6,592	10,138	64,440	6,592	1
65	66,216	48,016	3,774	3,774	3

Iterasi 7 dari Pengelompokan *Centroid* dengan k=3:

<i>Centroid</i>	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	12,944	1,944	3	3	2
c_2	15,263	1,421	2	2	1
c_3	20,107	1,857	1	3	2

Iterasi 7

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	6,328	4,600	28,200	4,600	2
2	21,538	5,292	14,584	5,292	2
3	6,300	9,652	54,726	6,300	1
4	3,782	24,802	85,056	3,782	1
5	8,300	5,968	44,324	5,968	2
6	2,104	9,652	52,628	2,104	1
7	16,748	5,134	22,370	5,134	2
8	5,314	4,028	43,610	4,028	2
9	17,342	9,488	12,486	9,488	2
10	5,314	8,224	39,414	5,314	1
11	5,978	17,118	68,556	5,978	1
12	31,860	12,022	8,656	8,656	3
13	5,314	13,908	56,012	5,314	1
14	70,210	41,700	4,202	4,202	3
15	51,888	29,068	0,032	0,032	3
16	13,538	5,074	21,084	5,074	2
17	50,678	28,910	2,844	2,844	3
18	11,412	0,246	33,110	0,246	2
19	2,230	10,382	40,700	2,230	1
20	84,112	52,016	3,604	3,604	3
21	18,552	7,548	13,870	7,548	2
22	3,216	6,126	39,414	3,216	1
23	3,216	13,908	56,012	3,216	1
24	10,524	2,502	30,298	2,502	2
25	30,874	14,180	9,942	9,942	3
26	7,216	4,442	28,914	4,442	2
27	53	29,128	3,416	3,416	3
28	26,678	16,278	7,844	7,844	3
29	22,748	5,450	15,968	5,450	2
30	21,538	5,292	14,584	5,292	2
31	9,314	2,344	31,012	2,344	2
32	4,104	19,434	71,226	4,104	1
33	9,342	7,172	18,986	7,172	2
34	6,202	5,968	42,226	5,968	2
35	7,188	11,592	57,538	7,188	1
36	11,412	6,540	33,110	6,540	2
37	42,972	14,300	7,540	7,540	3
38	87,322	52,076	6,988	6,988	3
39	16,524	2,818	23,896	2,818	2
40	8,866	22,546	87,868	8,866	1

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
41	0,894	11,592	53,342	0,894	1
42	69,098	39,542	2,916	2,916	3
43	69,986	39,384	3,630	3,630	3
44	41,762	16,240	6,156	6,156	3
45	8,866	22,546	87,868	8,866	1
46	4,202	11,750	52,628	4,202	1
47	52,776	26,812	4,942	4,942	3
48	28,776	16,278	9,942	9,942	3
49	71,196	35,346	7,112	7,112	3
50	105,322	64,392	12,586	12,586	3
51	8,076	10,824	72,752	8,076	1
52	86,210	49,918	5,702	5,702	3
53	6,202	5,968	42,226	5,968	2
54	19,440	9,488	12,486	9,488	2
55	69,986	39,384	5,728	5,728	3
56	82,014	52,016	5,702	5,702	3
57	49,790	29,068	2,130	2,130	3
58	52,776	26,812	4,942	4,942	3
59	7,440	8,856	31,584	7,440	1
60	14,426	7,014	23,896	7,014	2
61	88,308	47,820	7,800	7,800	3
62	28,552	13,962	7,272	7,272	3
63	85	51,858	6,416	6,416	3
64	5,978	15,020	68,556	5,978	1
65	69,098	37,444	5,014	5,014	3

Iterasi 8 dari Pengelompokan *Centroid* dengan k=3:

<i>Centroid</i>	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	12,722	1,889	3	3	2
c_2	15,619	1,429	2	3	1
c_3	20,346	1,923	1	1	2

Iterasi 8

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	7,300	2,807	32,782	2,807	2
2	23,288	2,091	18,342	2,091	2
3	6,384	11,381	56,068	6,384	1
4	2,978	25,857	91,550	2,978	1
5	8,718	7,001	45,320	7,001	2
6	2,188	9,283	58,166	2,188	1
7	18,274	6,809	24,244	6,809	2
8	5,842	7,143	46,572	5,842	1
9	19,092	6,287	16,244	6,287	2
10	5,842	7,143	46,572	5,842	1
11	5,508	19,575	70,508	5,508	1
12	34,164	10,191	7,608	7,608	3
13	5,508	13,523	61,418	5,508	1
14	73,956	37,717	1,588	1,588	3
15	55,080	23,715	2,224	2,224	3
16	14,954	2,569	25,188	2,569	2
17	53,760	23,573	5,168	5,168	3
18	12,274	2,665	35,726	2,665	2
19	2,868	9,285	45,628	2,868	1
20	88,192	45,239	4,840	4,840	3
21	20,412	4,331	17,496	4,331	2
22	3,744	5,045	44,474	3,744	1

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
23	3,410	15,621	57,222	3,410	1
24	11,496	4,905	32,782	4,905	2
25	33,288	12,333	8,762	8,762	3
26	8,078	2,665	33,628	2,665	2
27	56,302	23,759	5,476	5,476	3
28	29,092	12,333	10,860	10,860	3
29	24,608	4,331	15,398	4,331	2
30	23,288	6,287	16,244	6,287	2
31	10,176	4,763	33,628	4,763	2
32	3,854	21,859	72,914	3,854	1
33	10,758	4,667	23,090	4,667	2
34	6,620	4,903	47,418	4,903	2
35	7,162	13,337	59,012	7,162	1
36	12,274	6,861	33,628	6,861	2
37	45,720	13,855	8,112	8,112	3
38	91,512	49,479	5,994	5,994	3
39	17,830	4,525	26,034	4,525	2
40	7,952	27,813	92,396	7,952	1
41	0,868	11,239	59,012	0,868	1
42	72,734	35,575	0,434	0,434	3
43	73,512	35,433	1,208	1,208	3
44	44,400	15,811	6,860	6,860	3
45	7,952	23,617	94,494	7,952	1
46	4,286	11,381	58,166	4,286	1
47	55,858	25,671	5,168	5,168	3
48	31,190	14,431	8,762	8,762	3
49	74,832	31,379	4,630	4,630	3
50	109,846	61,099	11,246	11,246	3
51	7,606	15,379	76,802	7,606	1
52	90,290	47,337	4,840	4,840	3
53	6,620	4,903	47,418	4,903	2
54	21,190	6,287	16,244	6,287	2
55	73,512	35,433	3,378	3,378	3
56	86,094	45,239	6,938	6,938	3
57	52,982	23,715	4,322	4,322	3
58	55,858	25,671	5,168	5,168	3
59	8,522	9,145	31,838	8,522	1
60	15,732	6,623	23,936	6,623	2
61	92,388	45,239	6,938	6,938	3
62	30,746	10,049	10,552	10,049	2
63	88,970	45,097	7,784	7,784	3
64	5,508	19,575	72,606	5,508	1
65	72,734	33,477	2,532	2,532	3

Iterasi 9 dari Pengelompokan *Centroid* dengan k=3:

<i>Centroid</i>	Indeks Variabel ke- (p)				
	1	2	3	4	5
c_1	12,789	1,895	3	3	2
c_2	15,810	1,381	2	3	1
c_3	20,44	1,96	1	1	2

Iterasi 9

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai Min	Cluster
1	6,998	3,137	33,791	3,137	2
2	22,730	1,561	19,049	1,561	2
3	6,350	12,475	57,453	6,350	1
4	3,212	27,715	93,311	3,212	1
5	8,562	7,617	46,591	7,617	2
6	2,154	10,377	59,551	2,154	1
7	17,826	6,853	24,991	6,853	2
8	5,674	7,855	47,769	5,674	1
9	18,534	5,757	16,951	5,757	2
10	5,674	7,855	45,671	5,674	1
11	5,620	20,955	72,155	5,620	1
12	33,460	9,375	8,053	8,053	3
13	5,462	14,713	62,729	5,462	1
14	72,838	35,851	1,395	1,395	3
15	54,108	22,135	2,293	2,293	3
16	14,518	2,517	26,009	2,517	2
17	52,800	21,897	5,311	5,311	3
18	11,984	2,899	36,809	2,899	2
19	2,688	10,093	46,751	2,688	1
20	86,952	42,895	4,533	4,533	3
21	19,842	3,897	18,129	3,897	2
22	3,576	5,757	45,671	3,576	1
23	3,364	16,811	58,533	3,364	1
24	11,194	5,235	33,791	5,235	2
25	32,572	11,613	9,133	9,133	3
26	7,788	2,899	34,711	2,899	2
27	55,318	22,275	5,471	5,471	3
28	28,376	11,613	11,231	11,231	3
29	24,038	3,897	16,031	3,897	2
30	22,730	5,757	16,951	5,757	2
31	9,886	4,997	34,711	4,997	2
32	3,942	23,431	74,413	3,942	1
33	10,322	4,615	23,911	4,615	2
34	6,464	5,519	48,689	5,519	2
35	7,140	14,335	60,471	7,140	1
36	11,984	7,095	34,711	7,095	2
37	44,882	12,657	8,369	8,369	3
38	90,260	47,231	5,613	5,613	3
39	17,406	4,377	26,929	4,377	2
40	8,198	25,379	96,329	8,198	1
41	0,846	12,237	60,471	0,846	1
42	71,628	33,613	0,315	0,315	3
43	72,418	33,375	1,235	1,235	3
44	43,574	14,517	7,191	7,191	3
45	8,198	25,379	96,329	8,198	1
46	4,252	12,475	59,551	4,252	1
47	54,898	23,995	5,311	5,311	3
48	30,474	13,711	9,133	9,133	3
49	73,726	29,417	4,511	4,511	3
50	108,472	58,373	10,751	10,751	3
51	7,718	16,759	78,449	7,718	1
52	89,050	44,993	4,533	4,533	3
53	6,464	5,519	48,689	5,519	2
54	20,632	5,757	16,951	5,757	2
55	72,418	33,375	3,333	3,333	3
56	84,854	42,895	6,631	6,631	3
57	52,010	22,135	4,391	4,391	3
58	54,898	23,995	5,311	5,311	3

Objek ke-i	$d(x_i, c_1)$	$d(x_i, c_2)$	$d(x_i, c_3)$	Nilai <i>Min</i>	<i>Cluster</i>
59	8,208	9,571	32,773	8,208	1
60	15,308	6,475	24,831	6,475	2
61	91,148	42,895	6,631	6,631	3
62	30,054	9,137	11,071	9,137	2
63	87,742	42,657	7,551	7,551	3
64	5,620	20,955	74,253	5,620	1
65	71,628	31,515	2,413	2,413	3



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