



# **K-NN**

# **RUSPINI DATASET**

NUR ROSYID M

# RUSPINI DATASET

Data Training

Data Testing

#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
12	27	72	1
13	28	76	1
14	24	58	1
15	27	55	1
16	28	60	1
17	30	52	1
18	31	60	1
19	32	61	1
20	36	72	1

#	X	Y	CLASS
1	86	132	2
2	85	115	2
3	85	96	2
4	78	94	2
5	74	96	2
6	97	122	2
7	98	116	2
8	98	124	2
9	99	119	2
10	99	128	2
11	101	115	2
12	108	111	2
13	110	111	2
14	108	116	2
15	111	126	2
16	115	117	2
17	117	115	2

#	X	Y	CLASS
1	28	147	3
2	32	149	3
3	35	153	3
4	33	154	3
5	38	151	3
6	41	150	3
7	38	145	3
8	38	143	3
9	32	143	3
10	34	141	3
11	44	156	3
12	44	149	3
13	44	143	3
14	46	142	3
15	47	149	3
16	49	152	3
17	50	142	3
18	53	144	3
19	52	152	3
20	55	155	3
21	54	124	3
22	60	136	3
23	63	139	3

#	X	Y	CLASS
1	70	4	4
2	77	12	4
3	83	21	4
4	61	15	4
5	69	15	4
6	78	16	4
7	66	18	4
8	58	13	4
9	64	20	4
10	69	21	4
11	66	23	4
12	61	25	4
13	76	27	4
14	72	31	4
15	64	30	4

# DATA TRAINING 75% DAN DATA TESTING 25% HOLDOUT METHOD

data training 75%			
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
12	27	72	1
13	28	76	1
14	24	58	1
15	27	55	1
16	86	132	2
17	85	115	2
18	85	96	2
19	78	94	2
20	74	96	2
21	97	122	2
22	98	116	2
23	98	124	2
24	99	119	2
25	99	128	2
26	101	115	2
27	108	111	2
28	110	111	2
29	28	147	3
30	32	149	3
31	35	153	3
32	33	154	3
33	38	151	3
34	41	150	3
35	38	145	3
36	38	143	3
37	32	143	3
38	34	141	3
39	44	136	3
40	44	149	3
41	44	143	3
42	46	142	3
43	47	149	3
44	49	152	3
45	50	142	3
46	53	144	3
47	70	4	4
48	77	12	4
49	83	21	4
50	61	15	4
51	69	15	4
52	78	16	4
53	66	18	4
54	58	13	4
55	64	20	4
56	69	21	4
57	66	23	4
58	61	25	4

data testing 25%			
1	28	60	1
2	30	52	1
3	31	60	1
4	32	61	1
5	36	72	1
6	108	116	2
7	111	126	2
8	115	117	2
9	117	115	2
10	52	152	3
11	55	155	3
12	54	124	3
13	60	136	3
14	63	139	3
15	76	27	4
16	72	31	4
17	64	30	4

# 1-NN

1	28	60	1				
#	X	Y	CLASS	Jarak		kelas asal	1
14	24	58	1	4,472		kelas hasil	1
15	27	55	1	5,099			
9	18	61	1	10,050		hasil	benar
10	19	65	1	10,296			
12	27	72	1	12,042			
11	22	74	1	15,232			
13	28	76	1	16,000			
6	13	69	1	17,493			
3	10	59	1	18,028			
5	13	49	1	18,601			
8	15	75	1	19,849			
2	5	63	1	23,195			
1	4	53	1	25,000			
4	9	77	1	25,495			
7	12	88	1	32,249			
58	61	25	4	48,104			
57	66	23	4	53,038			

2	30	52	1				
#	X	Y	CLASS	Jarak		kelas asal	1
15	27	55	1	4,243		kelas hasil	1
14	24	58	1	8,485			
9	18	61	1	15,000		hasil	benar
10	19	65	1	17,029			
5	13	49	1	17,263			
12	27	72	1	20,224			
3	10	59	1	21,190			
11	22	74	1	23,409			
6	13	69	1	24,042			
13	28	76	1	24,083			
1	4	53	1	26,019			
2	5	63	1	27,313			
8	15	75	1	27,459			
4	9	77	1	32,650			
7	12	88	1	40,249			
58	61	25	4	41,110			
57	66	23	4	46,228			

# 1-NN

3	31	60	1						4	32	61	1					
#	X	Y	CLASS	Jarak		kelas asal	1		#	X	Y	CLASS	Jarak		kelas asal	1	
15	27	55	1	6,403		kelas hasil	1		15	27	55	1	7,810		kelas hasil	1	
14	24	58	1	7,280					14	24	58	1	8,544				
12	27	72	1	12,649		hasil	benar		12	27	72	1	12,083		hasil	benar	
10	19	65	1	13,000					10	19	65	1	13,601				
9	18	61	1	13,038					9	18	61	1	14,000				
13	28	76	1	16,279					13	28	76	1	15,524				
11	22	74	1	16,643					11	22	74	1	16,401				
6	13	69	1	20,125					6	13	69	1	20,616				
3	10	59	1	21,024					8	15	75	1	22,023				
5	13	49	1	21,095					3	10	59	1	22,091				
8	15	75	1	21,932					5	13	49	1	22,472				
2	5	63	1	26,173					2	5	63	1	27,074				
4	9	77	1	27,803					4	9	77	1	28,018				
1	4	53	1	27,893					1	4	53	1	29,120				
7	12	88	1	33,838					7	12	88	1	33,601				
58	61	25	4	46,098					58	61	25	4	46,228				
57	66	23	4	50,931					57	66	23	4	50,990				

# 1-NN

5	36	72	1					6	108	116	2				
#	X	Y	CLASS	Jarak	kelas asal	1		#	X	Y	CLASS	Jarak	kelas asal	2	
13	28	76	1	8,944	kelas hasil	1		27	108	111	2	5,000	kelas hasil	2	
12	27	72	1	9,000				28	110	111	2	5,385			
11	22	74	1	14,142	hasil	benar		26	101	115	2	7,071	hasil	benar	
10	19	65	1	18,385				24	99	119	2	9,487			
14	24	58	1	18,439				22	98	116	2	10,000			
15	27	55	1	19,235				21	97	122	2	12,530			
9	18	61	1	21,095				23	98	124	2	12,806			
8	15	75	1	21,213				25	99	128	2	15,000			
6	13	69	1	23,195				17	85	115	2	23,022			
4	9	77	1	27,459				16	86	132	2	27,203			
7	12	88	1	28,844				18	85	96	2	30,480			
3	10	59	1	29,069				19	78	94	2	37,202			
2	5	63	1	32,280				20	74	96	2	39,446			
5	13	49	1	32,527				46	53	144	3	61,717			
1	4	53	1	37,216				45	50	142	3	63,561			
20	74	96	2	44,944				42	46	142	3	67,231			
19	78	94	2	47,413				44	49	152	3	69,116			

# 1-NN

7	111	126	2						8	115	117	2					
#	X	Y	CLASS	Jarak	kelas asal		2		#	X	Y	CLASS	Jarak	kelas asal		2	
25	99	128	2	12,166	kelas hasil		2		28	110	111	2	7,810	kelas hasil		2	
23	98	124	2	13,153					27	108	111	2	9,220				
24	99	119	2	13,892	hasil	benar			26	101	115	2	14,142	hasil	benar		
21	97	122	2	14,560					24	99	119	2	16,125				
26	101	115	2	14,866					22	98	116	2	17,029				
28	110	111	2	15,033					23	98	124	2	18,385				
27	108	111	2	15,297					21	97	122	2	18,682				
22	98	116	2	16,401					25	99	128	2	19,416				
16	86	132	2	25,710					17	85	115	2	30,067				
17	85	115	2	28,231					16	86	132	2	32,650				
18	85	96	2	39,699					18	85	96	2	36,620				
19	78	94	2	45,967					19	78	94	2	43,566				
20	74	96	2	47,634					20	74	96	2	46,065				
46	53	144	3	60,729					46	53	144	3	67,624				

# 1-NN

9	117	115	2					10	52	152	3			
#	X	Y	CLASS	Jarak	kelas asal	2		#	X	Y	CLASS	Jarak	kelas asal	3
28	110	111	2	8,062	kelas hasil	2		44	49	152	3	3,000	kelas hasil	3
27	108	111	2	9,849				43	47	149	3	5,831		
26	101	115	2	16,000	hasil	benar		46	53	144	3	8,062	hasil	benar
24	99	119	2	18,439				40	44	149	3	8,544		
22	98	116	2	19,026				39	44	156	3	8,944		
23	98	124	2	21,024				45	50	142	3	10,198		
21	97	122	2	21,190				34	41	150	3	11,180		
25	99	128	2	22,204				42	46	142	3	11,662		
17	85	115	2	32,000				41	44	143	3	12,042		
16	86	132	2	35,355				33	38	151	3	14,036		
18	85	96	2	37,216				35	38	145	3	15,652		
19	78	94	2	44,294				36	38	143	3	16,643		
20	74	96	2	47,011				31	35	153	3	17,029		
46	53	144	3	70,264				32	33	154	3	19,105		
45	50	142	3	72,236				30	32	149	3	20,224		
42	46	142	3	75,961				38	34	141	3	21,095		



# 1-NN

11	55	155	3					12	54	124	3				
#	X	Y	CLASS	Jarak	kelas asal		3	#	X	Y	CLASS	Jarak	kelas asal		3
44	49	152	3	6,708	kelas hasil		3	45	50	142	3	18,439	kelas hasil		3
43	47	149	3	10,000				42	46	142	3	19,698			
39	44	156	3	11,045	hasil	benar		46	53	144	3	20,025	hasil	benar	
46	53	144	3	11,180				41	44	143	3	21,471			
40	44	149	3	12,530				36	38	143	3	24,839			
45	50	142	3	13,928				43	47	149	3	25,962			
34	41	150	3	14,866				38	34	141	3	26,249			
42	46	142	3	15,811				35	38	145	3	26,401			
41	44	143	3	16,279				40	44	149	3	26,926			
33	38	151	3	17,464				44	49	152	3	28,443			
35	38	145	3	19,723				34	41	150	3	29,069			
31	35	153	3	20,100				37	32	143	3	29,069			
36	38	143	3	20,809				33	38	151	3	31,385			
32	33	154	3	22,023				17	85	115	2	32,280			
30	32	149	3	23,770				16	86	132	2	32,985			
38	34	141	3	25,239				30	32	149	3	33,302			
37	32	143	3	25,942				39	44	156	3	33,526			
29	28	147	3	28,160				20	74	96	2	34,409			

# 1-NN

13	60	136	3					14	63	139	3				
#	X	Y	CLASS	Jarak	kelas asal	3		#	X	Y	CLASS	Jarak	kelas asal	3	
46	53	144	3	10,630	kelas hasil	3		46	53	144	3	11,180	kelas hasil	3	
45	50	142	3	11,662				45	50	142	3	13,342			
42	46	142	3	15,232	hasil	benar		42	46	142	3	17,263	hasil	benar	
41	44	143	3	17,464				43	47	149	3	18,868			
43	47	149	3	18,385				44	49	152	3	19,105			
44	49	152	3	19,416				41	44	143	3	19,416			
40	44	149	3	20,616				40	44	149	3	21,471			
36	38	143	3	23,087				16	86	132	2	24,042			
34	41	150	3	23,601				34	41	150	3	24,597			
35	38	145	3	23,770				36	38	143	3	25,318			
39	44	156	3	25,612				39	44	156	3	25,495			
16	86	132	2	26,306				35	38	145	3	25,710			
38	34	141	3	26,476				33	38	151	3	27,731			
33	38	151	3	26,627				38	34	141	3	29,069			
37	32	143	3	28,862				37	32	143	3	31,257			
31	35	153	3	30,232				31	35	153	3	31,305			
30	32	149	3	30,871				17	85	115	2	32,558			
32	33	154	3	32,450				30	32	149	3	32,573			
17	85	115	2	32,650				32	33	154	3	33,541			

# 1-NN

15	76	27	4					16	72	31	4				
#	X	Y	CLASS	Jarak	kelas asal	4		#	X	Y	CLASS	Jarak	kelas asal	4	
56	69	21	4	9,220	kelas hasil	4		57	66	23	4	10,000	kelas hasil	4	
49	83	21	4	9,220				56	69	21	4	10,440			
57	66	23	4	10,770	hasil	benar		58	61	25	4	12,530	hasil	benar	
52	78	16	4	11,180				55	64	20	4	13,601			
53	66	18	4	13,454				53	66	18	4	14,318			
55	64	20	4	13,892				49	83	21	4	14,866			
51	69	15	4	13,892				52	78	16	4	16,155			
48	77	12	4	15,033				51	69	15	4	16,279			
58	61	25	4	15,133				50	61	15	4	19,416			
50	61	15	4	19,209				48	77	12	4	19,647			
54	58	13	4	22,804				54	58	13	4	22,804			
47	70	4	4	23,770				47	70	4	4	27,074			
15	27	55	1	56,436				15	27	55	1	51,000			
14	24	58	1	60,539				14	24	58	1	55,073			
12	27	72	1	66,528				12	27	72	1	60,877			
5	13	49	1	66,731				5	13	49	1	61,685			
19	78	94	2	67,030				9	18	61	1	61,774			
9	18	61	1	67,231				13	28	76	1	62,936			
10	19	65	1	68,505				10	19	65	1	62,968			
13	28	76	1	68,593				19	78	94	2	63,285			

# 1-NN

17	64	30	4					
#	X	Y	CLASS	Jarak		kelas asal	4	
58	61	25	4	5,831		kelas hasil	4	
57	66	23	4	7,280				
55	64	20	4	10,000		hasil	benar	
56	69	21	4	10,296				
53	66	18	4	12,166				
50	61	15	4	15,297				
51	69	15	4	15,811				
54	58	13	4	18,028				
52	78	16	4	19,799				
49	83	21	4	21,024				
48	77	12	4	22,204				
47	70	4	4	26,683				
15	27	55	1	44,654				
14	24	58	1	48,826				
5	13	49	1	54,424				
9	18	61	1	55,471				
12	27	72	1	55,973				
10	19	65	1	57,009				
13	28	76	1	58,412				
11	22	74	1	60,828				

## 3-NN, 7-NN

- Hasilnya sama dengan 1-NN
- Data Ruspini terpisah secara sempurna

An abstract graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a neural network diagram. The lines are vertical and horizontal, with some diagonal connections, and the circles are placed at various points along these lines.

# RANDOM SUBSAMPLING

# RANDOM SUBSAMPLING

## RUSPINI DATASET

Data Training	80%
Data Testing	20%

#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
12	27	72	1
13	28	76	1
14	24	58	1
15	27	55	1
16	28	60	1
17	30	52	1
18	31	60	1
19	32	61	1
20	36	72	1

#	X	Y	CLASS
1	86	132	2
2	85	115	2
3	85	96	2
4	78	94	2
5	74	96	2
6	97	122	2
7	98	116	2
8	98	124	2
9	99	119	2
10	99	128	2
11	101	115	2
12	108	111	2
13	110	111	2
14	108	116	2
15	111	126	2
16	115	117	2
17	117	115	2

#	X	Y	CLASS
1	28	147	3
2	32	149	3
3	35	153	3
4	33	154	3
5	38	151	3
6	41	150	3
7	38	145	3
8	38	143	3
9	32	143	3
10	34	141	3
11	44	156	3
12	44	149	3
13	44	143	3
14	46	142	3
15	47	149	3
16	49	152	3
17	50	142	3
18	53	144	3
19	52	152	3
20	55	155	3
21	54	124	3
22	60	136	3
23	63	139	3

#	X	Y	CLASS
1	70	4	4
2	77	12	4
3	83	21	4
4	61	15	4
5	69	15	4
6	78	16	4
7	66	18	4
8	58	13	4
9	64	20	4
10	69	21	4
11	66	23	4
12	61	25	4
13	76	27	4
14	72	31	4
15	64	30	4

# RANDOM SUBSAMPLING EXP 1

4	9	77	1	
#	X	Y	CLASS	Jarak
6	13	69	1	8,944
7	12	88	1	11,402
11	22	74	1	13,342
2	5	63	1	14,560
10	19	65	1	15,620
3	10	59	1	18,028
9	18	61	1	18,358
12	27	72	1	18,682
13	28	76	1	19,026

12	108	111	2	
#	X	Y	CLASS	Jarak
13	110	111	2	2,000
14	108	116	2	5,000
11	101	115	2	8,062
17	117	115	2	9,849
7	98	116	2	11,180
9	99	119	2	12,042
15	111	126	2	15,297
8	98	124	2	16,401
10	99	128	2	19,235
2	85	115	2	23,345

8	15	75	1	
#	X	Y	CLASS	Jarak
6	13	69	1	6,325
11	22	74	1	7,071
10	19	65	1	10,770
12	27	72	1	12,369
13	28	76	1	13,038
7	12	88	1	13,342
9	18	61	1	14,318
2	5	63	1	15,620
3	10	59	1	16,763
16	28	60	1	19,849
20	36	72	1	21,213

16	115	117	2	
#	X	Y	CLASS	Jarak
17	117	115	2	2,828
14	108	116	2	7,071
13	110	111	2	7,810
15	111	126	2	9,849
11	101	115	2	14,142
9	99	119	2	16,125
7	98	116	2	17,029
8	98	124	2	18,385
10	99	128	2	19,416
2	85	115	2	30,067

14	24	58	1	
#	X	Y	CLASS	Jarak
15	27	55	1	4,243
16	28	60	1	4,472
9	18	61	1	6,708
18	31	60	1	7,280
19	32	61	1	8,544
10	19	65	1	8,602
3	10	59	1	14,036
5	13	49	1	14,213
12	27	72	1	14,318

6	97	122	2	
#	X	Y	CLASS	Jarak
8	98	124	2	2,236
9	99	119	2	3,606
7	98	116	2	6,083
10	99	128	2	6,325
11	101	115	2	8,062
14	108	116	2	12,530
2	85	115	2	13,892
15	111	126	2	14,560
1	86	132	2	14,866



A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a blue gradient background, resembling a circuit board or neural network structure.

# K-FOLD CROSS VALIDATION

#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS	#	X	Y	CLASS
1	4	53	1	2	4	53	1	2	4	53	1	1	4	53	1	1	4	53	1	1	4	53	1	1	4	53	1	1	4	53	1	1	4	53	1
2	5	63	1	3	5	63	1	3	5	63	1	2	5	63	1	2	5	63	1	2	5	63	1	2	5	63	1	2	5	63	1	2	5	63	1
3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1	3	10	59	1
4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1	4	17	71	1
5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1	5	13	49	1
6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1	6	13	69	1
7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1	7	12	88	1
8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1	8	15	75	1
9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1	9	14	61	1
10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1	10	19	65	1
11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1	11	22	74	1
12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2	12	12	72	2
13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1	13	28	76	1
14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1	14	25	55	1
15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1	15	25	15	1
16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1	16	28	60	1
17	30	52	1	17	3																														

A decorative graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a neural network diagram.

# LEAVE-ONE-OUT CROSS VALIDATION

#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1
#	X	Y	CLASS
1	4	53	1
2	5	63	1
3	10	59	1
4	9	77	1
5	13	49	1
6	13	69	1
7	12	88	1
8	15	75	1
9	18	61	1
10	19	65	1
11	22	74	1

An abstract graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a neural network, set against a dark blue background.

# BOOTSTRAP

RUSPINI DATASET									
Data Training									
Data Testing									
#	X	Y	CLASS						
1	4	53	1						
2	5	63	1						
5	13	49	1		3	10	59	1	
4	9	77	1		9	18	61	1	
5	13	49	1		13	28	76	1	
6	13	69	1		16	28	60	1	
7	12	88	1						
8	15	75	1						
7	12	88	1						
10	19	65	1						
11	22	74	1						
12	27	72	1						
10	19	65	1						
14	24	58	1						