

NANOCOM - TD5 INSTRUMENTS - TD5 ENGINE input file

Engine spe	Road speed	Coolant ter	Turbo pres	Battery vol	Ambient pr	Air flow (g/	Air inlet ter	Fuel temp.
758	0	83.6	0.04	14.13	102	61.5	28.7	71.4
765	0	83.6	0.05	14.03	102.09	61.7	28.7	71.4
765	0	83.6	0.05	14.13	102.09	61.7	28.8	71.4
764	0	83.6	0.05	14.03	102.09	61.2	28.8	71.4
761	0	83.5	0.05	13.88	101.9	60.7	28.8	71.4
762	0	83.6	0.04	14.19	102	60.5	28.8	71.4
762	0	83.6	0.05	14.1	101.9	62.5	28.8	71.4
781	0	83.6	0.05	14.03	102	61.9	28.8	71.4
779	0	83.6	0.05	14.22	102.09	59.7	28.8	71.4
746	0	83.6	0.05	14.1	102	60.2	28.8	71.4
964	0	83.6	0.06	13.85	101.9	73.4	28.8	71.4
758	0	83.6	0.05	14.03	101.9	63.7	28.8	71.4
887	0	83.6	0.06	14.03	102.09	101.6	28.8	71.4
1244	0	83.6	0.1	13.97	101.9	97	28.8	71.4
941	0	83.6	0.08	14.07	102	82	28.8	71.4
1017	5	83.6	0.07	14.03	102.2	90.5	28.8	71.4
1029	6	83.6	0.08	14	101.79	85.1	28.8	71.4
910	7	83.6	0.07	14.03	101.9	65.9	28.8	71.4
770	7	83.6	0.06	13.97	102.09	63	28.8	71.4
785	4	83.6	0.05	14.03	102	67.5	28.8	71.4
759	0	83.6	0.05	14.07	102.09	77	28.8	71.4
1298	0	83.6	0.12	13.97	101.58	173.8	28.8	71.4
2143	0	83.6	0.58	14	101.16	301.7	28.8	71.4
2291	18	83.6	0.71	14.16	100.54	353.3	28.8	71.4
2476	25	83.6	0.76	13.97	100.65	386.5	29	71.4
2364	29	83.6	0.78	14.13	100.75	369.1	29.1	71.4
2381	34	83.6	0.8	14	100.65	378.6	29.2	71.4
2453	39	83.6	0.82	14.13	100.65	388	29.5	71.4
2510	42	83.9	0.81	14.1	100.33	397.8	29.7	71.4
2726	45	83.6	1.05	14.03	100.01	484.6	30	71.4
2581	49	83.6	1.03	14.03	100.12	450.2	30.3	71.4
2597	53	83.6	1.05	14.03	100.12	460.1	30.8	71.4
2654	56	83.6	1.07	13.72	99.7	484.6	31.2	71.4
2692	59	83.6	1.05	14.1	99.91	478.7	31.8	71.4
2548	62	83.6	1.04	14.03	100.23	460.3	32.4	71.4
2557	65	83.9	1.05	13.78	100.01	458.1	33	71.4
2564	67	83.9	1.06	14.1	100.23	452.2	33.5	71.4
2575	69	83.9	1.06	14.03	100.01	460.3	34	71.5
2589	71	84	1.05	14.13	99.8	464.2	34.5	71.4
2596	73	84	1.03	14.07	100.01	456.2	35.2	71.5
2577	75	84	1.02	14.13	99.91	452.1	35.7	71.4
2395	77	84.1	0.65	13.97	100.95	297.8	36	71.4
2156	77	84.1	0.43	13.91	101.05	266.7	36.5	71.4
2185	77	84.3	0.44	13.85	100.95	261.7	36.7	71.4
2195	77	84.3	0.45	14.07	101.05	266.6	36.9	71.4
2197	77	84.3	0.45	14.13	101.05	266.7	37	71.4
2199	77	84.3	0.45	14.07	100.95	269.3	37	71.4

2206	77	84.5	0.46	14.07	100.95	272	37	71.4
2213	77	84.5	0.47	14.07	100.95	275.6	37	71.4
2222	77	84.5	0.48	14.07	100.95	282.8	36.9	71.4
2221	77	84.5	0.48	14.16	100.84	282.8	36.7	71.4
2217	77	84.5	0.47	14.07	100.75	280.6	36.5	71.4
2227	77	84.5	0.48	14.16	100.54	282.8	36.5	71.4
2230	77	84.5	0.48	14.07	100.44	287.8	36.2	71.4
2229	77	84.5	0.48	14.1	100.65	285.5	36	71.4
2244	77	84.5	0.5	14.07	100.65	288	36	71.4
2283	77	84.5	0.53	14.19	100.44	303	35.7	71.4
2283	77	84.5	0.54	14.1	100.44	306.7	35.7	71.4
2277	77	84.5	0.55	14.13	100.44	305.2	35.5	71.3
2286	77	84.3	0.55	14.07	100.44	304.2	35.4	71.3
2291	77	84.3	0.55	14.16	100.44	306.7	35.2	71.3
2258	77	84.3	0.49	14.1	100.54	270	35.2	71.3
2179	77	84.3	0.42	14.07	100.12	299	35	71.1
2017	77	84.1	0.43	14.1	99.91	294.2	34.7	71.1
2136	77	84.1	0.5	13.88	100.23	285.5	34.7	71.1
2350	77	84.1	0.62	14.1	100.12	336	34.5	71.1
2551	77	84.1	1.04	14.16	98.55	507.2	34.5	71.1
2970	79	84.1	1.15	14.13	98.04	558.2	34.5	71.1
3036	81	84.1	1.12	14.19	98.25	560.7	34.5	71.1
3078	84	84.3	1.26	14.1	100.01	585.5	34.7	71.1
3087	86	84.1	1.16	13.97	99.8	550.7	35	71.1
3017	88	84.1	1.19	14.16	99.29	606.5	35.5	71
3490	90	84.1	1.12	13.97	99.29	601.9	36	71
3534	92	84.3	1.16	14.13	99.19	617.5	36.7	71
3585	95	84.5	1.16	14.19	99.08	622	37.4	71
3461	98	84.5	1.16	14.07	99.4	587.7	38	71
3234	101	84.8	1.12	14.16	99.5	572	38.7	71
3199	103	84.9	1.1	14.13	98.87	565.2	39.2	71
3260	105	85	1.16	14.19	98.76	574.2	39.9	71
3269	106	85	1.15	13.88	98.66	560.7	40.5	71
2752	108	85	1.22	14.13	99.5	488.7	41	71
2562	109	85.4	1.18	13.81	99.91	482.7	41.5	71
2585	111	85.4	1.17	14.07	99.7	484.6	42	71
2611	112	85.8	1.16	13.91	99.08	474.5	42.2	71
2624	112	85.8	1.17	14.07	98.87	490.7	42.5	70.9
2621	112	85.8	1.14	14.13	99.8	471.1	42.7	70.6
2642	112	86	1.12	14.16	100.01	470.2	42.9	70.6
2624	113	86	1.05	14.07	99.8	454.1	43	70.6
2613	112	86	0.98	14.07	99.91	433.8	43.2	70.6
2591	111	86	0.98	14.22	100.01	431	43.2	70.6
2571	110	86.1	0.98	14.19	100.12	431.7	43.4	70.6
2535	109	86.1	1.1	14.22	99.59	460.3	43.4	70.6
2528	108	86.1	1.18	14.1	99.4	470.2	43.4	70.6
2516	108	86.1	1.21	14	99.59	476.7	43.4	70.5
2511	107	86.1	1.17	14.22	99.59	470.2	43.5	70.5
2517	108	85.9	1.18	14.16	99.08	460.5	43.5	70.5
2541	108	85.9	1.16	14.16	99.29	460.8	43.5	70.5

2541	109	85.9	1.16	14.07	99.29	466.6	43.7	70.5
2536	109	85.9	0.77	14.16	100.12	323.1	43.7	70.5
2459	106	85.9	0.22	14.13	100.65	242.5	43.9	70.3
2386	102	85.9	0.18	14.07	100.75	230.6	43.9	70.3
2315	99	85.9	0.17	14.19	100.75	219.5	43.7	70.3
2241	96	85.9	0.16	14.1	100.75	211.3	43.5	70.3
2177	93	85.9	0.16	14.19	100.75	204.3	43.2	70
2120	91	85.8	0.14	14.07	100.01	198.3	42.7	70
2064	88	85.5	0.14	14.13	100.95	194.1	42.5	70
2016	86	85.5	0.13	14.07	100.84	189.3	41.9	70
1961	84	85.1	0.13	14.16	100.95	185.3	41.5	70
1920	82	85.1	0.12	14.19	100.84	181.3	41	70
1749	81	84.9	0.11	14.13	100.65	156.8	40.7	70
1598	79	84.9	0.09	14.22	100.95	144.8	40.2	70
1550	77	84.5	0.08	14.13	101.05	140.1	39.7	70
1512	76	84.3	0.08	14.07	100.95	136.3	39.4	69.9
1472	75	84.3	0.07	14.19	100.95	131	39	69.9
1435	73	84.3	0.07	14.13	101.05	127	38.7	69.9
1400	73	84.1	0.07	14.07	100.95	121.9	38.4	69.9
1370	72	84	0.06	14.13	99.59	119.8	38	69.9
1336	71	83.9	0.06	14.1	100.54	117.6	37.7	69.9
1302	70	83.6	0.06	14.07	100.65	114	37.4	69.9
1273	69	83.6	0.05	14.16	101.05	107.6	37	69.9
1239	68	83.6	0.05	14.1	100.75	108.1	36.9	69.9
1208	67	83.4	0.05	14.19	101.16	102.8	36.5	69.9
1178	66	83.4	0.05	14.07	100.95	101.1	36.2	69.9
1153	65	83.4	0.05	14.13	101.05	98	36	69.8
1106	63	83.3	0.05	14.19	101.16	90.6	35.7	69.8
923	54	83	0.05	14.1	101.26	69.9	35.5	69.8
810	41	83	0.04	14.19	101.16	63.4	35.4	69.8
733	28	83	0.03	13.97	100.23	60	35.2	69.6
754	25	83	0.04	14.13	100.95	62	35	69.6
770	24	83	0.04	13.88	100.75	61.7	34.7	69.6
781	25	83	0.04	14.22	100.84	63.9	34.7	69.6
782	26	83	0.04	14.19	100.84	62.7	34.5	69.6
786	27	83	0.05	13.97	101.16	64.6	34.4	69.6
785	28	83	0.05	14.1	101.05	64.6	34.2	69.6
790	29	83	0.04	14.16	101.05	64.4	34.2	69.6
789	30	83	0.05	13.81	101.05	63.7	34	69.6
794	30	83	0.05	14.1	101.16	63.9	34	69.6
795	30	83	0.05	14.16	101.16	65.5	33.9	69.6
791	30	83	0.05	0.25	101.16	63.5	33.7	69.8
780	30	83	0.05	14.19	101.05	62.9	33.5	69.6
771	25	83.3	0.04	14.07	101.16	61.5	33.5	69.8
771	19	83.3	0.05	14.1	101.16	62.2	33.4	69.8
765	16	83.3	0.05	14.07	101.37	62.2	33.4	69.8
783	15	83.3	0.05	14.19	101.37	65	33.2	69.8
811	14	83.4	0.05	14.1	101.26	66	33	69.8
788	13	83.5	0.05	14	101.26	64	33	69.8
779	7	83.5	0.05	14.1	101.16	63.5	32.9	69.8

778	4	83.5	0.05	14.26	101.05	63.5	32.7	69.8
775	0	83.5	0.05	14.13	101.16	63.4	32.7	69.8
777	0	83.5	0.05	14.07	101.05	63.4	32.5	69.8
777	0	83.5	0.05	14.03	101.05	64	32.5	69.8
780	0	83.6	0.05	14	101.05	64	32.5	69.8
774	0	83.6	0.05	14.03	101.16	64.4	32.4	69.8
775	0	83.9	0.05	14.1	101.05	64.4	32.4	69.8

Cyl. 1	Cyl. 2	Cyl. 3	Cyl. 4	Cyl. 5	Accel. track	Accel. track	Accel. track	Accel. supp
-1	1	1	-1	0	0.818	4.243	0	5
-2	0	2	-1	1	0.818	4.243	0	5
-1	0	0	-1	2	0.818	4.243	0	5
1	-2	-1	-1	3	0.818	4.243	0	5
1	0	-1	2	-1	0.818	4.243	0	5
-1	0	0	1	-1	0.818	4.243	0	4.993
-3	0	5	2	-3	0.818	4.243	0	5
-2	2	1	1	0	0.818	4.243	0	5
-1	0	-1	-1	-1	0.818	4.243	0	5
0	-1	0	-1	1	0.91	4.152	0	5
-7	-3	-5	4	9	0.996	4.067	0.277	5
1	-2	4	0	-4	1.088	3.983	0.134	5
-1	-1	-3	-10	-28	1.449	3.63	1.644	5
1	1	0	-1	2	1.271	3.801	1.042	5
1	3	2	-1	-1	1.266	3.806	1.019	5
-5	0	8	-1	-2	1.399	3.676	1.422	5
-2	0	5	-2	0	1.32	3.755	1.217	5
0	1	4	-2	-3	0.851	4.204	0	5
0	1	6	-5	-2	0.813	4.243	0	5
-1	1	5	-5	0	0.813	4.243	0	5
28	0	33	-5	-1	1.184	3.885	0.594	5
-2	1	0	-2	1	1.751	3.335	2.841	5
1	-1	6	-4	-1	1.778	3.312	3.086	5
0	0	4	-2	-3	1.799	3.283	3.188	5
-2	2	5	-4	0	1.809	3.273	3.243	5
0	1	4	-4	-2	1.826	3.26	3.29	5
-1	2	3	-4	-1	1.821	3.266	3.283	5
-1	1	5	-1	-3	1.826	3.26	3.306	5
-2	2	5	-4	-1	1.831	3.256	3.316	5
0	3	6	-5	-1	2.089	2.993	4.315	5
-1	1	6	-3	-1	2.052	3.023	4.28	5
0	3	4	-2	-4	2.079	3	4.324	5
-1	1	5	-1	-4	2.068	3.01	4.324	5
-1	1	4	-3	-3	2.062	3.016	4.302	5
-2	1	5	-2	-1	2.073	3.006	4.335	5
-2	3	5	-4	-1	2.068	3.01	4.327	5
-2	3	4	-4	-2	2.068	3.016	4.3	5
-2	3	6	-4	-3	2.068	3.016	4.302	5
-2	3	5	-4	-4	2.058	3.023	4.276	5
-1	1	6	-4	-1	2.03	3.051	4.165	5
0	2	4	-3	-1	1.993	3.085	4.015	5
1	1	4	-4	-2	1.589	3.489	2.381	5.005
-1	1	3	-3	1	1.61	3.47	2.413	5
-3	-1	5	-3	0	1.616	3.46	2.423	5
-1	0	4	-3	-1	1.616	3.466	2.428	5
-1	-1	4	-2	0	1.616	3.466	2.428	5
0	-1	4	-3	-1	1.616	3.466	2.444	5

-1	-1	4	-4	1	1.616	3.46	2.454	5
-1	0	5	-3	-1	1.627	3.454	2.494	5
0	2	2	-1	-1	1.632	3.448	2.51	5.005
0	-2	4	-3	0	1.627	3.454	2.477	5
-2	0	4	-3	1	1.632	3.448	2.503	5
0	1	2	-4	2	1.636	3.448	2.516	5
-1	2	3	-5	1	1.636	3.448	2.516	5
-1	-1	5	-3	0	1.636	3.448	2.516	5
-2	-1	3	-2	1	1.648	3.437	2.558	5
0	0	2	-4	1	1.674	3.403	2.68	5
0	-2	4	-3	1	1.669	3.408	2.667	5
1	0	1	-2	1	1.674	3.408	2.674	5
1	2	3	-5	1	1.674	3.408	2.686	5
0	-1	2	-4	1	1.674	3.408	2.687	5
0	3	3	-3	-3	1.53	3.551	2.21	5
0	2	3	-3	-2	1.761	3.323	3.02	5
1	0	4	-2	-2	1.809	3.278	3.052	5
-1	1	1	-3	-4	1.681	3.408	2.467	5
0	1	4	-4	0	1.724	3.364	2.895	5
-1	1	6	-3	-3	1.006	4.051	1.301	5
-3	3	4	-2	-5	0.824	4.237	0	5
-5	6	9	-4	-6	0.824	4.237	0	5
-4	7	4	-4	-5	0.824	4.237	0	5
-7	3	6	-4	-2	0.824	4.237	0	5
0	3	3	-4	0	0.824	4.237	0	5
-6	6	6	-5	-1	0.824	4.237	0	5
-4	5	5	-6	0	0.824	4.237	0	5
-3	3	6	-4	-2	0.824	4.237	0	5
-2	4	2	-5	-2	0.824	4.237	0	5
-4	6	5	-8	1	0.824	4.237	0	5
-1	5	2	-6	-1	0.824	4.237	0	5
0	6	2	-3	-3	0.824	4.237	0	5
-3	5	5	0	-7	0.824	4.237	0	5
-5	1	6	-2	0	0.824	4.237	0	5
-2	4	5	-1	-1	0.824	4.237	0	5
-4	4	4	-3	1	0.824	4.237	0	5
-3	3	4	-2	-1	0.824	4.243	0	5
-2	0	5	-1	0	0.824	4.237	0	5
-3	1	5	-2	-2	0.824	4.237	0	5
-2	3	3	-2	-2	0.824	4.237	0	5
-2	2	4	-5	-4	0.824	4.237	0	5
-3	3	4	0	-1	0.824	4.237	0	5
-3	0	2	-1	0	0.824	4.237	0	5
-1	2	4	-3	0	0.824	4.237	0	5
-1	2	5	-3	0	0.824	4.237	0	5
-3	1	6	-2	-1	0.824	4.237	0	5
-2	3	7	-5	-3	0.824	4.237	0	5
-2	5	4	-6	-3	0.824	4.237	0	5
0	0	2	-4	-3	0.824	4.237	0	5
-1	4	5	-5	0	0.824	4.237	0	5

-1	4	6	-4	0	0.824	4.237	0	5
0	-3	11	-2	-6	0.824	4.237	0	5
-1	1	2	-1	0	0.824	4.237	0	5
-2	2	1	0	-1	0.824	4.237	0	5
-1	2	1	-1	-1	0.824	4.237	0	5
-2	1	1	0	-3	0.824	4.237	0	5
-1	2	3	-2	-1	0.824	4.237	0	5
-3	2	1	0	-4	0.824	4.237	0	5
-2	3	2	-2	-1	0.824	4.237	0	5
-1	3	0	-1	-1	0.824	4.237	0	5
-2	3	2	0	-3	0.824	4.237	0	5
-3	3	2	-1	0	0.824	4.237	0	5
-1	3	2	-1	-2	0.824	4.237	0	5
-1	2	0	0	-1	0.824	4.237	0	5
-2	2	1	-1	-1	0.824	4.237	0	5
-1	3	1	-1	-1	0.824	4.237	0	5
-1	1	1	-1	0	0.824	4.237	0	5
-1	2	1	0	-1	0.824	4.237	0	5
0	2	0	-1	0	0.824	4.237	0	5
-3	3	1	-1	0	0.824	4.237	0	5
-3	2	2	1	-2	0.824	4.237	0	5
-3	0	2	1	-1	0.824	4.237	0	5
-1	2	0	-1	0	0.824	4.237	0	5
-1	1	1	0	-1	0.824	4.237	0	5
-2	1	1	0	-1	0.824	4.237	0	5
-1	2	1	-1	0	0.824	4.237	0	5
0	0	2	2	-3	0.824	4.237	0	5
-2	2	1	1	-1	0.818	4.237	0	5
-4	3	2	-2	1	0.818	4.243	0	5
-4	0	4	0	3	0.818	4.243	0	5
0	1	5	-5	-1	0.818	4.237	0	5
1	-2	1	-1	1	0.824	4.237	0	5
2	-3	1	0	0	0.824	4.237	0	5
1	-2	4	2	-2	0.824	4.237	0	5
-3	-1	6	-1	-2	0.824	4.237	0	5
-2	1	1	-2	1	0.824	4.237	0	5
-2	0	-2	0	2	0.824	4.237	0	5
0	-1	-1	0	2	0.824	4.237	0	5
-1	0	2	3	-1	0.824	4.237	0	5
-4	0	5	2	-1	0.824	4.237	0	5
-3	0	3	1	0	0.824	4.237	0	5.005
-3	1	1	0	0	0.824	4.237	0	5.005
0	-1	-1	-1	3	0.824	4.237	0	5
2	3	-4	2	-2	0.818	4.237	0	5
0	1	0	1	-1	0.824	4.237	0	5
-1	1	0	1	-3	0.824	4.237	0	5
-2	2	3	1	-2	0.824	4.243	0	5
-2	0	0	-1	3	0.824	4.237	0	5
2	-3	3	-1	-3	0.824	4.237	0	5
-2	-3	3	2	-2	0.818	4.243	0	5

-3	1	4	1	-3	0.818	4.237	0	5
-4	1	3	-3	-1	0.824	4.243	0	5
-1	0	3	-3	1	0.818	4.237	0	5
-1	-1	1	-2	2	0.818	4.237	0	5
1	0	-3	2	0	0.818	4.237	0	5
-1	-1	4	2	-1	0.818	4.237	0	5
-3	0	1	-1	0	0.818	4.237	0	5



EGR inlet (°EGR mod. ( Idle speed ( Wastegate mod.(%)

0	0	0	0
0	0	-2	0
0	0	2	0
0	0	3	0
0	0	0	0
0	0	3	0
0	0	1	0
0	0	-3	0
0	0	-53	0
0	0	-25	0
0	0	-19	0
0	0	7	0
0	0	384	0
0	0	254	0
0	0	166	0
0	0	248	0
0	0	205	0
0	0	-20	0
0	0	-18	0
0	0	48	0
0	0	131	0
32.34	0	951	31.89
38.95	0	1246	38.54
40	0	1434	40
0	0	1583	0
35.43	0	1413	35.04
40	0	1478	40
40	0	1539	40
40	0	1596	40
37.5	0	1699	37.45
37.91	0	1650	37.84
37.68	0	1694	37.65
37.84	0	1736	37.86
39.54	0	1769	37.97
37.7	0	1614	37.7
37.72	0	1626	37.72
37.77	0	1638	37.77
37.81	0	1650	37.81
37.86	0	1669	37.88
38.77	0	1671	38.61
40	0	1646	39.7
0	0	1267	0
0	0	1258	0
0	0	1263	0
0	0	1269	0
0	0	1263	0
0	0	1271	0

0	0	1276	0
0	0	1288	0
0	0	1293	0
0	0	1279	0
0	0	1295	0
0	0	1298	0
0	0	1300	0
0	0	1298	0
0	0	1317	0
0	0	1358	0
0	0	1350	0
0	0	1354	0
0	0	1358	0
0	0	1356	0
0	0	1207	0
0	0	1431	0
0	0	1429	0
0	0	1343	0
0	0	1419	0
26.92	0	1860	27.37
25.3	0	2081	25.48
25.46	0	2129	25.97
23.56	0	2150	23.37
23.63	0	2161	24.04
23.48	0	2492	23.29
26.04	0	2573	26.04
26.63	0	2620	26.63
26.75	0	2657	26.75
25.89	0	2320	26.37
25.22	0	2334	25.4
24.06	0	2312	24.06
24.95	0	2334	24.95
25.02	0	2181	25.35
22.28	0	1610	22.28
22.02	0	1639	22.02
22.02	0	1663	22.1
22.57	0	1681	22.51
23.93	0	1688	23.85
24.42	0	1703	24.37
25.29	0	1699	25.18
27.45	0	1698	27.27
29.39	0	1682	29.12
33.68	0	1655	33.36
36.15	0	1632	36.13
36.08	0	1604	36.43
28.6	0	1590	29.1
23.97	0	1583	24.06
22.06	0	1585	22.34
21.94	0	1597	21.95
22.35	0	1601	22.28

22.84	0	1609	22.77
0	0	1608	0
0	0	1505	0
0	0	1425	0
0	0	1356	0
0	0	1291	0
0	0	1226	0
0	0	1170	0
0	0	1116	0
0	0	1069	0
0	0	1025	0
0	0	979	0
0	0	725	0
0	0	651	0
0	0	607	0
0	0	568	0
0	0	528	0
0	0	492	0
0	0	460	0
0	0	428	0
0	0	393	0
0	0	363	0
0	0	332	0
0	0	296	0
0	0	268	0
0	0	238	0
0	0	213	0
0	0	284	0
0	0	42	0
0	0	-10	0
0	0	-44	0
0	0	-16	0
0	0	-9	0
0	0	-1	0
0	0	5	0
0	0	4	0
0	0	7	0
0	0	5	0
0	0	11	0
0	0	16	0
0	0	10	0
0	0	6	0
0	0	-6	0
0	0	-20	0
0	0	-14	0
0	0	-42	0
0	0	12	0
0	0	11	0
0	0	6	0
0	0	-1	0

0	0	-6	0
0	0	-4	0
0	0	-3	0
0	0	-3	0
0	0	-2	0
0	0	-3	0
0	0	-1	0