

Rank	Team ID	Entry ID	Accuracy	Appropriateness	Average	Best Score for Each Metric
Ground-truth			4.5930	4.4513	4.5221	
1	19	2	4.3917	4.3922	4.3920	
2	3	1	4.3480	4.3634	4.3557	
3	10	0	4.3544	4.3201	4.3373	
4	15	3	4.3793	4.2755	4.3274	
5	17	0	4.3360	4.3076	4.3218	
6	7	4	4.3308	4.2989	4.3149	
7	18	3	4.3309	4.2859	4.3084	
8	13	3	4.3763	4.2360	4.3061	
9	23	0	4.3082	4.2665	4.2874	
10	11	3	4.2722	4.2619	4.2670	
11	20	4	4.2283	4.2486	4.2384	
12	21	3	4.1060	4.1560	4.1310	
Baseline			3.7155	3.9386	3.8271	

		Task1: Turn Detection			Task2: Knowledge Selection			Task3: Response Generation							Best Score for Each Metric	
Team ID	Entry ID	Precision	Recall	F1	MRR@5	Recall@1	Recall@5	BLEU-1	BLEU-2	BLEU-3	BLEU-4	METEOR	ROUGE-1	ROUGE-2	ROUGE-L	Best Single Model Score for Each Metric
	Baseline	0.9933	0.9021	0.9455	0.7263	0.6201	0.8772	0.3031	0.1732	0.1005	0.0655	0.2983	0.3386	0.1364	0.3039	
1	0	0.9933	0.9773	0.9721	0.8786	0.8255	0.9435	0.3336	0.1976	0.1151	0.0713	0.3311	0.3743	0.1552	0.3332	
1	1	0.9933	0.9773	0.9721	0.8786	0.8255	0.9435	0.3333	0.1994	0.1186	0.0750	0.3296	0.3728	0.1578	0.3305	
1	2	0.9933	0.9773	0.9721	0.8786	0.8255	0.9435	0.3268	0.1942	0.1115	0.0691	0.3232	0.3658	0.1517	0.3245	
1	3	0.9574	0.9763	0.9668	0.8732	0.8203	0.9378	0.3216	0.1923	0.1145	0.0712	0.3205	0.3611	0.1519	0.3223	
1	4	0.9574	0.9763	0.9668	0.8732	0.8203	0.9378	0.3368	0.2047	0.1252	0.0810	0.3342	0.3762	0.1630	0.3364	
2	0	0.9936	0.9369	0.9644	0.8934	0.8548	0.9514	0.3243	0.1886	0.1096	0.0695	0.3191	0.3641	0.1485	0.3230	
2	1	0.9936	0.9369	0.9644	0.8945	0.8584	0.9509	0.3323	0.1990	0.1177	0.0737	0.3291	0.3725	0.1577	0.3330	
2	2	0.9936	0.9369	0.9644	0.8914	0.8527	0.9509	0.3338	0.1999	0.1179	0.0755	0.3322	0.3751	0.1583	0.3329	
2	3	0.9936	0.9369	0.9644	0.8877	0.8475	0.9462	0.3307	0.1991	0.1203	0.0781	0.3299	0.3720	0.1597	0.3323	
2	4	0.9936	0.9369	0.9644	0.8936	0.8579	0.9493	0.3271	0.1949	0.1146	0.0733	0.3266	0.3687	0.1553	0.3281	
3	0	0.9964	0.9859	0.9911	0.9395	0.9013	0.9840	0.3879	0.2512	0.1658	0.1158	0.3885	0.4335	0.2061	0.3867	
3	1	0.9964	0.9859	0.9911	0.9395	0.9013	0.9840	0.3864	0.2539	0.1692	0.1190	0.3914	0.4332	0.2115	0.3885	
3	2	0.9964	0.9859	0.9911	0.9395	0.9013	0.9840	0.3841	0.2479	0.1630	0.1139	0.3841	0.4296	0.2036	0.3828	
3	3	0.9964	0.9859	0.9911	0.9395	0.9013	0.9840	0.3861	0.2495	0.1643	0.1148	0.3865	0.4316	0.2048	0.3854	
3	4	0.9964	0.9859	0.9911	0.9395	0.9013	0.9840	0.3766	0.2449	0.1601	0.1113	0.3795	0.4229	0.2036	0.3801	
4	0	0.9994	0.8183	0.8998	0.7141	0.6950	0.7472	0.3025	0.1782	0.1058	0.0671	0.3001	0.3366	0.1395	0.2990	
4	1	0.9994	0.8183	0.8998	0.7189	0.6950	0.7705	0.3025	0.1782	0.1058	0.0671	0.3001	0.3366	0.1395	0.2990	
4	2	0.9994	0.8183	0.8998	0.7089	0.6872	0.7472	0.3006	0.1751	0.1045	0.0664	0.2956	0.3346	0.1371	0.2976	
4	3	0.9994	0.8183	0.8998	0.7109	0.6872	0.7616	0.3006	0.1751	0.1045	0.0664	0.2956	0.3346	0.1371	0.2976	
5	0	0.9916	0.8985	0.9428	0.7588	0.7055	0.8337	0.3218	0.1930	0.1145	0.0706	0.3266	0.3576	0.1513	0.3174	
5	1	0.9916	0.8985	0.9428	0.7588	0.7055	0.8337	0.3218	0.1930	0.1145	0.0706	0.3266	0.3576	0.1513	0.3174	
5	2	0.9916	0.8985	0.9428	0.7588	0.7055	0.8337	0.3210	0.1936	0.1175	0.0742	0.3260	0.3572	0.1528	0.3179	
5	3	0.9916	0.8985	0.9428	0.7539	0.6944	0.8438	0.3160	0.1893	0.1131	0.0729	0.3163	0.3549	0.1506	0.3159	
5	4	0.9916	0.8985	0.9428	0.7539	0.6944	0.8438	0.3116	0.1841	0.1100	0.0710	0.3092	0.3510	0.1466	0.3130	
6	0	0.9945	0.9182	0.9549	0.8474	0.8136	0.9071	0.3276	0.1940	0.1163	0.0754	0.3254	0.3667	0.1534	0.3254	
6	1	0.9924	0.9248	0.9574	0.6768	0.5163	0.9051	0.3153	0.1801	0.1023	0.0644	0.3109	0.3529	0.1399	0.3126	
6	2	0.9838	0.9838	0.9838	0.8842	0.8486	0.9465	0.3362	0.1995	0.1186	0.0763	0.3330	0.3761	0.1580	0.3334	
6	3	0.9838	0.9838	0.9838	0.8842	0.8486	0.9465	0.3362	0.1995	0.1186	0.0763	0.3330	0.3761	0.1580	0.3334	
6	4	0.9838	0.9838	0.9838	0.8809	0.8531	0.9293	0.3371	0.1996	0.1174	0.0743	0.3341	0.3773	0.1576	0.3362	
7	0	0.9957	0.9460	0.9702	0.9309	0.8988	0.9666	0.3678	0.2325	0.1472	0.0979	0.3745	0.4046	0.1843	0.3607	
7	1	0.9957	0.9460	0.9702	0.9309	0.8988	0.9666	0.3676	0.2321	0.1490	0.1007	0.3745	0.4057	0.1852	0.3617	
7	2	0.9957	0.9460	0.9702	0.9309	0.8988	0.9666	0.3741	0.2406	0.1549	0.1033	0.3840	0.4138	0.1935	0.3681	
7	3	0.9957	0.9460	0.9702	0.9309	0.8988	0.9666	0.3750	0.2425	0.1562	0.1043	0.3854	0.4143	0.1950	0.3695	
7	4	0.9957	0.9460	0.9702	0.9309	0.8988	0.9666	0.3752	0.2426	0.1568	0.1050	0.3852	0.4154	0.1957	0.3702	
8	0	0.9870	0.9187	0.9516	0.7033	0.6207	0.8241	0.3030	0.1750	0.1017	0.0664	0.3000	0.3408	0.1385	0.3041	
8	1	0.9875	0.9197	0.9524	0.7505	0.6707	0.8672	0.3076	0.1774	0.1029	0.0659	0.3037	0.3449	0.1398	0.3083	
8	2	0.9875	0.9197	0.9524	0.7546	0.6764	0.8657	0.3055	0.1753	0.1003	0.0620	0.3022	0.3433	0.1375	0.3058	
8	3	0.9875	0.9207	0.9530	0.7808	0.7257	0.8595	0.3120	0.1815	0.1074	0.0681	0.3053	0.3481	0.1427	0.3102	
8	4	0.9875	0.9207	0.9530	0.7876	0.7403	0.8563	0.3135	0.1839	0.1082	0.0699	0.3097	0.3501	0.1454	0.3119	
9	0	0.9925	0.8647	0.9242	0.8166	0.7931	0.8530	0.3089	0.1822	0.1062	0.0668	0.3099	0.3460	0.1432	0.3035	
9	1	0.9925	0.8647	0.9242	0.8128	0.7882	0.8508	0.3154	0.1908	0.1123	0.0713	0.3159	0.3517	0.1507	0.3101	
10	0	0.9860	0.9596	0.9726	0.9400	0.9158	0.9670	0.3684	0.2374	0.1531	0.1030	0.3719	0.4113	0.1938	0.3692	
11	0	0.9925	0.9344	0.9626	0.8967	0.8669	0.9334	0.3728	0.2481	0.1689	0.1155	0.3837	0.4162	0.2073	0.3783	
11	1	0.9925	0.9344	0.9626	0.8476	0.8476	0.8476	0.3701	0.2464	0.1677	0.1147	0.3807	0.4131	0.2059	0.3762	
11	2	0.9925	0.9344	0.9626	0.8858	0.8497	0.9334	0.3702	0.2465	0.1677	0.1147	0.3813	0.4134	0.2060	0.3765	
11	3	0.9879	0.9480	0.9675	0.9005	0.8702	0.9377	0.3743	0.2491	0.1693	0.1157	0.3854	0.4179	0.2080	0.3797	
11	4	0.9879	0.9480	0.9675	0.8892	0.8521	0.9377	0.3717	0.2474	0.1681	0.1150	0.3830	0.4151	0.2067	0.3778	
12	0	0.9923	0.9091	0.9489	0.8328	0.7950	0.8851	0.3233	0.1928	0.1173	0.0760	0.3206	0.3612	0.1530	0.3209	
12	1	0.9951	0.9162	0.9540	0.8395	0.8011	0.8925	0.3231	0.1911	0.1140	0.0729	0.3219	0.3611	0.1509	0.3231	
12	2	0.9923	0.9091	0.9489	0.8328	0.7950	0.8851	0.3384	0.2049	0.1241	0.0833	0.3383	0.3776	0.1630	0.3377	
12	3	0.9951	0.9162	0.9540	0.8395	0.8011	0.8925	0.3411	0.2066	0.1251	0.0839	0.3411	0.3805	0.1643	0.3401	
12	4	0.9951	0.9162	0.9540	0.8395	0.8011	0.8925	0.3374	0.2131	0.1376	0.0885	0.3526	0.3780	0.1736	0.3376	
13	0	0.9794	0.9844	0.9819	0.8832	0.8434	0.9426	0.3215	0.2015	0.1254	0.0789	0.3440	0.3622	0.1628	0.3209	
13	1	0.9667	0.9081	0.9503	0.8550	0.8172	0.9118	0.3093	0.1935	0.1198	0.0751	0.3346	0.3480	0.1567	0.3110	
13	2	0.9794	0.9844	0.9819	0.8832	0.8434	0.9426	0.3179	0.1968	0.1200	0.0742	0.3400	0.3583	0.1582	0.3156	
13	3	0.9794	0.9844	0.9819	0.8832	0.8434	0.9426	0.3787	0.2396	0.1448	0.0985	0.3902	0.4211	0.1894	0.3619	
13	4	0.9794	0.9844	0.9819	0.8832	0.8434	0.9426	0.3094	0.1803	0.1077	0.0676	0.3132	0.3477	0.1435	0.3100	
14	0	0.9988	0.8617	0.9252	0.7404	0.6466	0.8667	0.3019	0.1738	0.1009	0.0639	0.2974	0.3367	0.1348	0.3003	
14	1	0.9988	0.8617	0.9252	0.7404	0.6466	0.8667	0.2944	0.1673	0.0969	0.0609	0.2908	0.3301	0.1309	0.2955	
14	2	0.9988	0.8617	0.9252	0.7404	0.6466	0.8667	0.2974	0.1692	0.0980	0.0601	0.2913	0.3334	0.1322		

17	1	0.9933	0.9748	0.9839	0.9113	0.8734	0.9605	0.3691	0.2390	0.1524	0.1042	0.3714	0.4154	0.1966	0.3676
17	2	0.9933	0.9748	0.9839	0.8977	0.8662	0.9447	0.3673	0.2363	0.1487	0.1008	0.3685	0.4136	0.1939	0.3644
17	3	0.9933	0.9748	0.9839	0.8908	0.8627	0.9315	0.3658	0.2358	0.1496	0.1008	0.3683	0.4120	0.1936	0.3634
17	4	0.9933	0.9748	0.9839	0.8960	0.8622	0.9447	0.3661	0.2358	0.1485	0.1006	0.3677	0.4124	0.1938	0.3634
18	0	0.9962	0.9329	0.9635	0.8877	0.8384	0.9447	0.3806	0.2450	0.1611	0.1116	0.3835	0.4173	0.1972	0.3726
18	1	0.9962	0.9329	0.9635	0.8596	0.7873	0.9473	0.3748	0.2402	0.1564	0.1070	0.3795	0.4107	0.1924	0.3673
18	2	0.9962	0.9329	0.9635	0.8596	0.7873	0.9473	0.3752	0.2411	0.1584	0.1086	0.3805	0.4112	0.1940	0.3683
18	3	0.9962	0.9329	0.9635	0.9155	0.8994	0.9343	0.3794	0.2455	0.1612	0.1081	0.3864	0.4164	0.1976	0.3707
18	4	0.9962	0.9329	0.9635	0.8596	0.7873	0.9473	0.3749	0.2367	0.1526	0.1038	0.3792	0.4101	0.1878	0.3630
19	0	0.9941	0.9430	0.9679	0.9181	0.8870	0.9554	0.3726	0.2402	0.1556	0.1064	0.3802	0.4103	0.1936	0.3665
19	1	0.9911	0.9566	0.9735	0.9214	0.8883	0.9612	0.3780	0.2449	0.1594	0.1088	0.3853	0.4167	0.1978	0.3727
19	2	0.9954	0.9818	0.9886	0.9504	0.9235	0.9814	0.3803	0.2449	0.1590	0.1081	0.3869	0.4192	0.1976	0.3738
19	3	0.9954	0.9818	0.9886	0.9504	0.9235	0.9814	0.3735	0.2402	0.1550	0.1045	0.3815	0.4132	0.1940	0.3685
19	4	0.9954	0.9818	0.9886	0.9504	0.9235	0.9814	0.2243	0.1537	0.0998	0.0663	0.2887	0.3530	0.1855	0.3150
20	0	0.9926	0.9505	0.9711	0.8805	0.8401	0.9335	0.3601	0.2256	0.1398	0.0959	0.3620	0.3962	0.1789	0.3523
20	1	0.9926	0.9505	0.9711	0.8923	0.8602	0.9335	0.3609	0.2259	0.1397	0.0957	0.3625	0.3969	0.1790	0.3526
20	2	0.9926	0.9505	0.9711	0.8798	0.8386	0.9335	0.3603	0.2257	0.1396	0.0957	0.3624	0.3963	0.1788	0.3520
20	3	0.9926	0.9505	0.9711	0.8926	0.8608	0.9335	0.3608	0.2256	0.1393	0.0952	0.3624	0.3967	0.1785	0.3523
20	4	0.9926	0.9505	0.9711	0.8940	0.8628	0.9345	0.3619	0.2269	0.1406	0.0964	0.3637	0.3979	0.1799	0.3535
21	0	0.9894	0.8486	0.9136	0.8423	0.8212	0.8745	0.3455	0.2243	0.1484	0.0986	0.3515	0.3879	0.1863	0.3496
21	1	0.9894	0.8486	0.9136	0.8441	0.8228	0.8804	0.3451	0.2246	0.1491	0.1010	0.3518	0.3873	0.1869	0.3504
21	2	0.9927	0.8920	0.9396	0.8518	0.8258	0.8902	0.3515	0.2265	0.1496	0.0983	0.3575	0.3959	0.1878	0.3576
21	3	0.9927	0.8920	0.9396	0.8530	0.8269	0.8955	0.3551	0.2300	0.1532	0.1040	0.3594	0.3976	0.1907	0.3570
21	4	0.9894	0.8486	0.9136	0.8479	0.8228	0.8880	0.3458	0.2252	0.1510	0.1025	0.3517	0.3873	0.1878	0.3509
22	0	0.9990	0.5154	0.6800	0.3521	0.2831	0.4795	0.1131	0.0410	0.0189	0.0120	0.0971	0.1411	0.0345	0.1250
22	1	0.9990	0.5154	0.6800	0.2831	0.2831	0.2831	0.1131	0.0410	0.0189	0.0120	0.0971	0.1411	0.0345	0.1250
22	2	0.9992	0.6401	0.7803	0.3337	0.2640	0.4671	0.1792	0.0817	0.0435	0.0345	0.1583	0.2033	0.0664	0.1852
23	0	0.9984	0.9278	0.9618	0.9233	0.8959	0.9555	0.3523	0.2225	0.1431	0.0929	0.3527	0.3927	0.1806	0.3500
23	1	0.9989	0.9122	0.9536	0.9161	0.8908	0.9478	0.3457	0.2165	0.1384	0.0920	0.3496	0.3859	0.1753	0.3437
23	2	0.9842	0.9147	0.9482	0.9094	0.8802	0.9430	0.3485	0.2210	0.1427	0.0927	0.3497	0.3884	0.1797	0.3469
23	3	0.9978	0.9011	0.9469	0.9137	0.8886	0.9427	0.3534	0.2252	0.1446	0.0965	0.3565	0.3944	0.1835	0.3519
23	4	0.9905	0.8935	0.9395	0.8146	0.7622	0.8832	0.3181	0.1885	0.1121	0.0719	0.3154	0.3567	0.1491	0.3200
24	0	0.9882	0.2105	0.3471	0.0038	0.0017	0.0067	0.0835	0.0413	0.0196	0.0123	0.0796	0.0963	0.0322	0.0866
24	1	0.9882	0.2105	0.3471	0.0038	0.0017	0.0067	0.0781	0.0369	0.0176	0.0094	0.0733	0.0890	0.0284	0.0794

Team ID	Entry ID	Task1: Turn Detection			Task2: Knowledge Selection			Task3: Response Generation						Finalists for human evaluation: the best entry selected from each of the top half (12) teams				
		Precision	Recall	F1	MRR@5	Recall@1	Recall@5	BLEU-1	BLEU-2	BLEU-3	BLEU-4	METEOR	ROUGE-1	ROUGE-2	ROUGE-L			
3	1	16	1	1	5	5	1	2	1	6	1	3	2	1	1	0.6583	The overall score is calculated by the mean reciprocal rank over the metrics	
3	0	16	1	1	5	5	1	1	5	11	5	6	1	9	2	0.4724		
15	3	53	26	21	17	16	34	10	2	1	2	1	7	2	10	0.3368		
3	3	16	1	1	5	5	1	3	6	12	10	8	3	12	3	0.3299		
3	2	16	1	1	5	5	1	4	10	13	13	15	4	13	4	0.2956		
3	4	16	1	1	5	5	1	12	16	17	15	26	5	14	5	0.2651		
19	2	31	13	6	1	1	6	6	6	18	19	19	7	9	17	15	0.2534	
19	3	31	13	6	1	1	6	22	24	25	24	20	25	25	23	0.2230		
19	4	31	13	6	1	1	6	101	101	99	91	101	79	40	79	0.2029		
15	4	53	26	21	17	16	34	11	3	2	4	2	8	3	12	0.2012		
15	2	53	26	21	19	19	18	13	4	3	7	4	10	4	14	0.1402		
15	1	53	26	21	19	19	18	19	7	5	3	10	12	5	13	0.1165		
11	3	89	38	42	29	29	50	20	8	4	6	11	11	6	6	0.1016		
10	0	96	31	27	4	4	9	30	30	28	31	32	29	28	21	0.0777		
11	0	69	51	56	31	30	58	23	9	7	8	17	17	7	7	0.0772		
11	4	89	38	42	41	42	50	25	11	8	9	19	20	8	8	0.0676		
18	3	21	54	51	23	10	53	7	14	15	20	9	16	18	18	0.0665		
19	1	82	32	26	16	23	15	9	17	18	16	13	14	16	16	0.0644		
13	3	101	6	17	47	48	44	8	27	41	39	5	6	34	34	0.0634		
7	4	26	40	36	10	11	10	15	20	21	23	14	19	22	19	0.0624		
7	3	26	40	36	10	11	10	16	21	23	25	12	21	23	20	0.0614		
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11	2	69	51	56	44	43	58	26	12	9	12	21	24	10	9	0.0581		
7	2	26	40	36	10	11	10	21	23	26	29	16	22	31	25	0.0552		
11	1	69	51	56	66	46	91	27	13	10	11	22	26	11	11	0.0530		
17	0	48	21	9	28	28	16	28	28	31	30	31	15	20	22	0.0480		
17	1	48	21	9	26	27	16	29	29	30	26	33	18	21	26	0.0468		
7	1	26	40	36	10	11	10	32	36	36	36	30	35	41	35	0.0457		
7	0	26	40	36	10	11	10	31	35	40	41	29	36	42	36	0.0452		
15	0	53	26	21	25	25	25	36	19	14	18	28	34	15	29	0.0451		
18	2	21	54	51	59	74	28	14	22	20	17	23	30	24	24	0.0393		
19	0	38	45	41	21	24	21	24	26	24	22	24	32	30	28	0.0392		
17	2	48	21	9	30	31	37	33	32	37	35	34	23	26	30	0.0388		
17	4	48	21	9	32	34	37	34	33	38	37	36	27	27	32	0.0371		
17	3	48	21	9	40	33	60	35	34	34	34	35	28	29	31	0.0359		
18	1	21	54	51	59	74	28	18	25	22	21	25	31	32	27	0.0346		
18	4	21	54	51	59	74	28	17	31	29	28	27	33	35	33	0.0311		
23	0	13	59	59	15	18	20	44	48	43	48	45	45	44	47	0.0304		
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23	3	14	80	79	24	22	43	43	44	42	42	44	44	43	44	0.0257		
23	1	8	75	69	22	21	27	48	50	50	50	51	50	51	50	0.0254		
20	1	64	33	31	38	36	54	38	40	47	45	38	39	47	40	0.0248		
21	3	62	87	86	63	55	65	42	37	27	27	42	38	33	38	0.0244		
20	3	64	33	31	37	35	54	39	43	49	47	39	40	50	41	0.0243		
6	2	98	10	14	45	44	31	56	59	60	58	60	56	61	57	0.0238		
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23	2	97	74	78	27	26	42	46	49	44	49	50	46	46	49	0.0234		
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21	1	84	95	95	68	60	74	50	46	35	33	47	49	38	46	0.0205		
21	0	84	95	95	69	62	76	49	47	39	38	49	47	39	48	0.0197		
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2	0	39	46	46	36	39	22	67	79	81	81	76	67	81	68	0.0190		
1	1	44	16	28	54	57	39	61	61	62	65	65	61	63	63	0.0188		
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13	4	101	6	17	47	48	44	84	85	83	84	81	86	84	86	0.0182		
12	4	34	71	66	70	67	66	53	51	51	51	46	52	52	53	0.0180		
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13	1	15	78	75	62	65	62	86	70	59	64	56	85	66	83	0.0147		
12	0	75	76	76	73	70	71	68	73	67	61	74	69	70	70	0.0143		
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16	0	58	63	61	78	79	77	76	77	69	60	77	76	72	73	0.0138		
5	2	77	81	81	84	84	94	74	69	65	67	70	75	71	74	0.0134		
5	0	77	81	81	84	84	94	70	71	73	78	67	73	75	75	0.0131		
23	4	83	86	88	76	77	73	75	80	78	73	80	77	80	72	0.0130		
9	1	72	89	93	77	73	90	79	76	77	75	79	81	78	85	0.0125		
5	3	77	81	81	88	89	92	83	81	80	77	85	82	82	80	0.0120		
16	2	58	63	61	78	79	77	87	90	95	99	87	87	92	88	0.0119		
9	0	72	89	93	75	72	89	88	83	85	87	83	88	83	82	0.0118		
8	1	93	63	72	90													

