

Li-T															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	33	31	10	34	29	13	25	17	18	23	11	14	12	2
	FP	5	7	0	4	9	25	13	20	20	14	26	24	27	36
	FN	166	121	102	70	74	61	37	44	39	32	41	32	30	28
	TN	3694	3703	985	3774	3771	3797	3787	3709	3740	3687	3676	3759	3874	3811
k=2	TP	60	58	21	53	46	20	36	24	27	30	17	18	17	3
	FP	17	19	0	24	31	57	41	51	49	45	58	58	61	74
	FN	139	94	91	51	57	54	26	37	30	25	35	28	25	27
	TN	3682	3691	985	3754	3749	3765	3759	3678	3711	3656	3644	3725	3840	3773
k=3	TP	76	71	31	62	53	24	41	30	29	36	21	20	18	4
	FP	40	44	1	54	63	92	74	83	85	76	91	94	100	112
	FN	123	81	81	42	50	50	21	31	28	19	31	26	24	26
	TN	3659	3666	984	3724	3717	3730	3726	3646	3675	3625	3611	3689	3801	3735
k=4	TP	93	78	40	65	61	28	45	34	33	37	24	22	19	5
	FP	62	76	3	90	94	127	109	117	119	113	126	131	138	150
	FN	106	74	72	39	42	46	17	27	24	18	28	24	23	25
	TN	3637	3634	982	3688	3686	3695	3691	3612	3641	3588	3576	3652	3763	3697
k=5	TP	104	83	49	68	64	31	47	36	35	40	25	23	21	5
	FP	90	110	5	126	130	163	146	153	155	147	162	168	176	188
	FN	95	69	63	36	39	43	15	25	22	15	27	23	21	25
	TN	3609	3600	980	3652	3650	3659	3654	3576	3605	3554	3540	3615	3725	3659

Li-D															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	34	27	0	23	1	14	20	1	1	1	6	10	8	1
	FP	4	11	10	15	37	24	18	36	37	36	31	28	31	37
	FN	165	125	112	81	102	60	42	60	56	54	46	36	34	29
	TN	3695	3699	975	3763	3743	3798	3782	3693	3723	3665	3671	3755	3870	3810
k=2	TP	66	47	1	23	3	21	30	5	4	1	11	14	11	1
	FP	11	30	20	54	74	56	47	70	72	74	64	62	67	76
	FN	133	105	111	81	100	53	32	56	53	54	41	32	31	29
	TN	3688	3680	965	3724	3706	3766	3753	3659	3688	3627	3638	3721	3834	3771
k=3	TP	87	59	1	27	6	22	33	10	10	1	13	17	13	1
	FP	29	56	31	89	110	94	82	103	104	111	99	97	105	115
	FN	112	93	111	77	97	52	29	51	47	54	39	29	29	29
	TN	3670	3654	954	3689	3670	3728	3718	3626	3656	3590	3603	3686	3796	3732
k=4	TP	97	65	1	28	13	25	34	13	10	1	16	18	19	2
	FP	58	89	42	127	142	130	120	138	142	149	134	135	138	153
	FN	102	87	111	76	90	49	28	48	47	54	36	28	23	28
	TN	3641	3621	943	3651	3638	3692	3680	3591	3618	3552	3568	3648	3763	3694
k=5	TP	100	71	2	29	17	26	37	19	11	1	17	21	19	2
	FP	94	122	52	165	177	168	156	170	179	186	170	170	178	191
	FN	99	81	110	75	86	48	25	42	46	54	35	25	23	28
	TN	3605	3588	933	3613	3603	3654	3644	3559	3581	3515	3532	3613	3723	3656

Li-TD															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	37	34	9	24	24	17	25	11	12	4	7	15	17	1
	FP	1	4	1	14	14	21	13	26	26	33	30	23	22	37
	FN	162	118	103	80	79	57	37	50	45	51	45	31	25	29
	TN	3698	3706	984	3764	3766	3801	3787	3703	3734	3668	3672	3760	3879	3810
k=2	TP	69	60	18	39	37	25	35	17	17	4	13	22	20	1
	FP	8	17	3	38	40	52	42	58	59	71	62	54	58	76
	FN	130	92	94	65	66	49	27	44	40	51	39	24	22	29
	TN	3691	3693	982	3740	3740	3770	3758	3671	3701	3630	3640	3729	3843	3771
k=3	TP	96	78	22	45	44	29	43	25	22	5	18	23	20	1
	FP	20	37	10	71	72	87	72	88	92	107	94	91	98	115
	FN	103	74	90	59	59	45	19	36	35	50	34	23	22	29
	TN	3679	3673	975	3707	3708	3735	3728	3641	3668	3594	3608	3692	3803	3732
k=4	TP	109	84	28	49	44	33	48	35	23	7	22	25	21	3
	FP	46	70	15	106	111	122	106	116	129	143	128	128	136	152
	FN	90	68	84	55	59	41	14	26	34	48	30	21	21	27
	TN	3653	3640	970	3672	3669	3700	3694	3613	3631	3558	3574	3655	3765	3695
k=5	TP	123	88	31	51	50	37	48	36	23	8	28	26	24	5
	FP	71	105	23	143	144	157	145	153	167	179	159	165	173	188
	FN	76	64	81	53	53	37	14	25	34	47	24	20	18	25
	TN	3628	3605	962	3635	3636	3665	3655	3576	3593	3522	3543	3618	3728	3659

Ren															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	38	37	10	38	38	37	26	33	32	36	34	30	12	12
	FP	0	1	0	0	0	1	12	4	6	1	3	8	27	26
	FN	161	115	102	66	65	37	36	28	25	19	18	16	30	18
	TN	3699	3709	985	3778	3780	3821	3788	3725	3754	3700	3699	3775	3874	3821
k=2	TP	77	75	21	69	66	40	26	33	32	44	45	30	12	12
	FP	0	2	0	8	11	37	51	42	44	31	30	46	66	65
	FN	122	77	91	35	37	34	36	28	25	11	7	16	30	18
	TN	3699	3708	985	3770	3769	3785	3749	3687	3716	3670	3672	3737	3835	3782
k=3	TP	116	80	32	69	66	40	26	33	32	44	45	30	12	12
	FP	0	35	0	47	50	76	89	80	82	68	67	84	106	104
	FN	83	72	80	35	37	34	36	28	25	11	7	16	30	18
	TN	3699	3675	985	3731	3730	3746	3711	3649	3678	3633	3635	3699	3795	3743
k=4	TP	144	80	43	69	66	40	26	33	32	44	45	30	12	12
	FP	11	74	0	86	89	115	128	118	120	106	105	123	145	143
	FN	55	72	69	35	37	34	36	28	25	11	7	16	30	18
	TN	3688	3636	985	3692	3691	3707	3672	3611	3640	3595	3597	3660	3756	3704
k=5	TP	144	80	54	69	66	40	26	33	32	44	45	30	12	12
	FP	50	113	0	125	128	154	167	156	158	143	142	161	185	181
	FN	55	72	58	35	37	34	36	28	25	11	7	16	30	18
	TN	3649	3597	985	3653	3652	3668	3633	3573	3602	3558	3560	3622	3716	3666

Wang															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	38	36	10	38	38	37	30	37	36	37	36	32	13	20
	FP	0	2	0	0	0	1	8	0	2	0	1	6	26	18
	FN	161	116	102	66	65	37	32	24	21	18	16	14	29	10
	TN	3699	3708	985	3778	3780	3821	3792	3729	3758	3701	3701	3777	3875	3829
k=2	TP	77	75	21	73	66	43	30	47	36	45	45	33	13	20
	FP	0	2	0	4	11	34	47	28	40	30	30	43	65	57
	FN	122	77	91	31	37	31	32	14	21	10	7	13	29	10
	TN	3699	3708	985	3774	3769	3788	3753	3701	3720	3671	3672	3740	3836	3790
k=3	TP	116	80	32	73	66	43	30	47	36	45	45	33	13	20
	FP	0	35	0	43	50	73	85	66	78	67	67	81	105	96
	FN	83	72	80	31	37	31	32	14	21	10	7	13	29	10
	TN	3699	3675	985	3735	3730	3749	3715	3663	3682	3634	3635	3702	3796	3751
k=4	TP	136	80	43	73	66	43	30	47	36	45	45	33	13	20
	FP	19	74	0	82	89	112	124	104	116	105	105	120	144	135
	FN	63	72	69	31	37	31	32	14	21	10	7	13	29	10
	TN	3680	3636	985	3696	3691	3710	3676	3625	3644	3596	3597	3663	3757	3712
k=5	TP	136	80	54	73	66	43	30	47	36	45	45	33	13	20
	FP	58	113	0	121	128	151	163	142	154	142	142	158	184	173
	FN	63	72	58	31	37	31	32	14	21	10	7	13	29	10
	TN	3641	3597	985	3657	3652	3671	3637	3587	3606	3559	3560	3625	3717	3674

BiMPM															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	38	29	10	37	29	30	31	33	34	35	28	28	24	23
	FN	161	123	102	67	74	44	31	28	23	20	24	18	18	7
	FP	0	9	0	1	9	8	7	4	4	2	9	10	15	15
	TN	3699	3701	985	3777	3771	3814	3793	3725	3756	3699	3693	3773	3886	3832
k=2	TP	75	54	21	75	59	47	39	50	42	47	38	37	24	25
	FN	124	98	91	29	44	27	23	11	15	8	14	9	18	5
	FP	2	23	0	2	18	30	38	25	34	28	37	39	54	52
	TN	3697	3687	985	3776	3762	3792	3762	3704	3726	3673	3665	3744	3847	3795
k=3	TP	109	69	31	92	74	56	44	53	46	51	41	38	28	27
	FN	90	83	81	12	29	18	18	8	11	4	11	8	14	3
	FP	7	46	1	24	42	60	71	60	68	61	71	76	90	89
	TN	3692	3664	984	3754	3738	3762	3729	3669	3692	3640	3631	3707	3811	3758
k=4	TP	127	86	42	96	80	58	44	54	47	52	45	40	29	27
	FN	72	66	70	8	23	16	18	7	10	3	7	6	13	3
	FP	28	68	1	59	75	97	110	97	105	98	105	113	128	128
	TN	3671	3642	984	3719	3705	3725	3690	3632	3655	3603	3597	3670	3773	3719
k=5	TP	135	94	53	97	81	61	48	54	47	53	46	40	30	28
	FN	64	58	59	7	22	13	14	7	10	2	6	6	12	2
	FP	59	99	1	97	113	133	145	135	143	134	141	151	167	165
	TN	3640	3611	984	3681	3667	3689	3655	3594	3617	3567	3561	3632	3734	3682

Dup-Hunter															
		rails	joomla	angular	ceph	ansible	facebook	elastic	docker	cocos2d	django	hashicorp	emberjs	JuliaLang	dotnet
k=1	TP	38	37	10	38	38	37	32	37	37	36	37	33	27	23
	FP	0	1	0	0	0	1	6	0	1	1	0	5	12	15
	FN	161	115	102	66	65	37	30	24	20	19	15	13	15	7
	TN	3699	3709	985	3778	3780	3821	3794	3729	3759	3700	3702	3778	3889	3832
k=2	TP	77	75	21	76	71	61	39	55	49	49	47	41	32	26
	FP	0	2	0	1	6	16	38	20	27	26	28	35	46	51
	FN	122	77	91	28	32	13	23	6	8	6	5	5	10	4
	TN	3699	3708	985	3777	3774	3806	3762	3709	3733	3675	3674	3748	3855	3796
k=3	TP	114	104	32	92	82	63	43	55	53	50	47	42	33	27
	FP	2	11	0	24	34	53	72	58	61	62	65	72	85	89
	FN	85	48	80	12	21	11	19	6	4	5	5	4	9	3
	TN	3697	3699	985	3754	3746	3769	3728	3671	3699	3639	3637	3711	3816	3758
k=4	TP	147	114	43	95	85	64	45	55	54	50	48	42	35	27
	FP	8	40	0	60	70	91	109	96	98	100	102	111	122	128
	FN	52	38	69	9	18	10	17	6	3	5	4	4	7	3
	TN	3691	3670	985	3718	3710	3731	3691	3633	3662	3601	3600	3672	3779	3719
k=5	TP	173	120	54	97	88	66	45	56	54	50	50	42	36	28
	FP	21	73	0	97	106	128	148	133	136	137	137	149	161	165
	FN	26	32	58	7	15	8	17	5	3	5	2	4	6	2
	TN	3678	3637	985	3681	3674	3694	3652	3596	3624	3564	3565	3634	3740	3682