

Список 2821 положений Венеры

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Завершена обработка наблюдений Венеры, выполненных на широкоугольном астрографе ГАИШ АФР-1 ($D=230\text{mm}$, $F=2300\text{mm}$) в период с 1969г. по 1988г. Ослабление блеска Венеры осуществлялось вращающимся сектором с автоматической фиксацией момента прохождения щели по фокальному изображению планеты. Был использован широкий спектр фотоэмульсий: ZU1, ZU2, DU2, DU3 ORWO и УФШ-О НИИХИМФОТО с целью более полного исключения влияния на положение центра изображения планеты совокупного эффекта фотографической иррадиации. Это потребовало исследования указанных фотоэмульсий в плане зависимости смещения центра фотографического изображения Венеры от величины экспозиции и фазового угла [1-5]. Впервые на столь обширном материале (2821 положений) реализован метод оценки величины экспозиции планеты отношением измеренного и эфемеридного размеров выбранного элемента изображения. Нами были созданы номограммы упомянутых зависимостей от величины экспозиции для избранных фазовых углов, и по ним выведены поправки в наблюдаемые положения Венеры. Степень полноты исключения влияния эффекта фотографической иррадиации оценивалась величиной скачка разности (О-С) для равнофазных утренних и вечерних наблюдений. Мы пришли к выводу о неполном исключении указанного влияния из-за несовершенства эксперимента по изучению эффекта фотографической иррадиации и правомерности введения поправки в положение наблюдаемой Венеры, равной половине остаточного скачка разности (О-С) по обеим координатам. Последняя операция была возможна в результате анализа всего объема редуцированных положений Венеры, что не могло не сказаться на сроке обработки наблюдений. Под несовершенством эксперимента понимается невозможность экспонирования макета "искусственная планета" непосредственно астрографом и замена его длиннофокусной камерой "Восток".

Ниже приводятся два графика значений остаточной разности (О-С) по прямому восхождению и склонению, а так же наклонов линий, аппроксимирующих указанные разности. По оси У отложены значения разностей (О-С) Венеры по обеим координатам, по оси Х - значения фазовых углов; дисперсия по прямому восхождению и склонению составила соответственно $\pm 0,^s023$ и $\pm 0,^s34$.

График 1. Распределение остаточных разностей (О-С) по прямому восхождению Венеры в зависимости от значения фазовых углов.

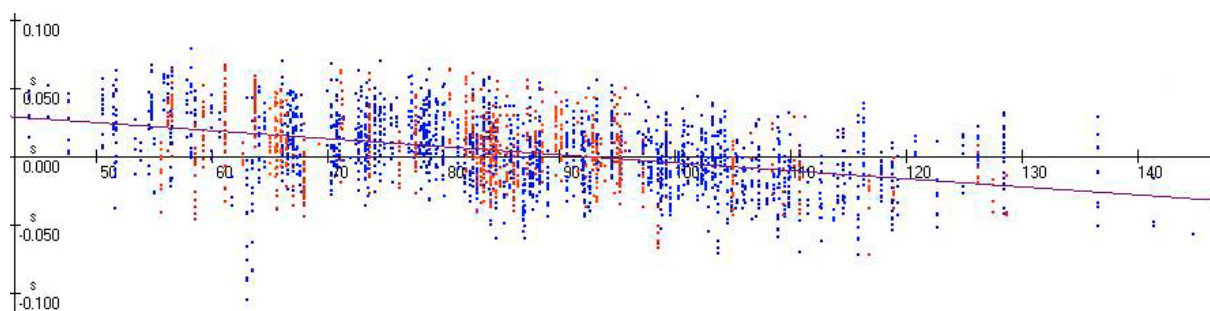
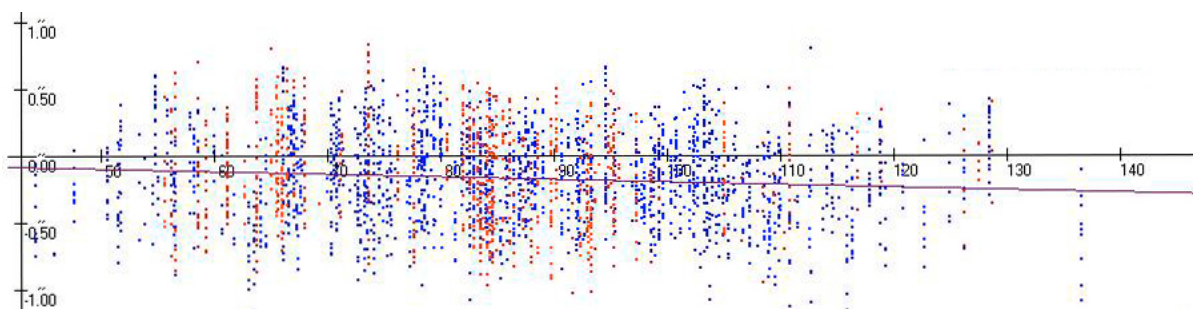


График 2. Распределение остаточных разностей (О-С) по склонению Венеры в зависимости от значения фазовых углов.



В заключение приведен список 2821 топоцентрических положений Венеры, который содержит информацию о моментах UTC наблюдений, наблюдаемых положениях Венеры, значениях измеренного радиуса, величинах экспозиции и сорте использованной фотоземлюльсии. В качестве опорного использован звездный каталог PPM.

Список 2821 топоцентрических положений Венеры

Год мес.		UTC	RA			Decl			R изм	эксп.
1			2			3			4	5
		d	h	m	s	°	'	''	mkm	
1969	01	08.6093750	22	27	47.851	-10	54	52.44	106	0.815 zu1
1969	01	08.6100116	22	27	47.980	-10	54	51.35	113	0.948 zu1
1969	01	08.6100116	22	27	47.986	-10	54	51.06	113	0.963 zu1
1969	01	08.6108912	22	27	48.196	-10	54	49.62	105	0.963 zu1
1969	01	08.6143519	22	27	49.070	-10	54	43.32	131	1.244 zu1
1969	01	08.6143519	22	27	49.074	-10	54	43.11	136	1.348 zu1
1969	01	08.6154514	22	27	49.320	-10	54	42.26	123	0.926 zu1
1969	01	08.6162616	22	27	49.501	-10	54	40.22	138	1.437 zu1
1969	01	08.6162616	22	27	49.542	-10	54	39.85	126	1.141 zu1
1969	01	08.6207199	22	27	50.617	-10	54	32.38	122	1.215 zu1
1969	01	08.6225833	22	27	51.053	-10	54	29.46	130	1.274 zu1
1969	01	09.6298576	22	31	58.540	-10	26	06.02	113	0.794 zu1
1969	01	09.6326412	22	31	59.209	-10	26	01.02	113	0.846 zu1
1969	01	11.6040706	22	39	58.512	-9	29	51.57	113	1.081 zu1
1969	01	11.6060845	22	39	58.934	-9	29	47.85	115	1.015 zu1

		1	2		3	4		5		
1969	01	11.6116354	22	40	00.329	-9	29	38.07	122	1.066 zu1
1969	01	11.6151319	22	40	01.178	-9	29	32.15	113	0.963 zu1
1969	01	11.6457002	22	40	08.466	-9	28	40.17	110	0.956 zu1
1969	01	11.6484387	22	40	09.116	-9	28	35.55	109	0.919 zu1
1969	01	16.6160880	22	59	46.218	-7	04	13.77	146	1.420 zu2
1969	01	16.6339792	22	59	50.337	-7	03	41.11	137	1.275 zu2
1969	01	16.6350926	22	59	50.635	-7	03	39.93	122	1.065 zu2
1969	01	16.6368345	22	59	51.008	-7	03	37.33	122	1.181 zu2
1969	01	19.6457569	23	11	22.885	-5	34	43.57	123	1.101 zu2
1969	01	21.6289294	23	18	50.326	-4	35	46.18	132	1.174 zu1
1969	01	21.6306296	23	18	50.670	-4	35	42.90	143	1.435 zu1
1969	02	06.6883102	00	14	38.828	3	18	54.75	165	1.332 zu2
1969	02	06.6911458	00	14	39.363	3	19	00.16	165	1.328 zu2
1969	02	07.6559722	00	17	43.493	3	46	40.60	171	1.362 zu2
1969	02	07.6639514	00	17	45.014	3	46	53.88	186	1.449 zu2
1969	02	08.6908345	00	20	58.415	4	16	10.01	170	1.551 zu2
1969	02	08.6919907	00	20	58.657	4	16	12.34	190	1.877 zu2
1969	02	09.6748634	00	24	01.480	4	44	01.18	200	1.870 zu2
1969	02	09.6825000	00	24	02.850	4	44	14.37	178	1.507 zu2
1969	02	09.6990683	00	24	05.874	4	44	41.98	184	1.399 zu2
1969	02	09.7026296	00	24	06.539	4	44	47.68	184	1.377 zu2
1969	02	11.6554097	00	30	02.475	5	39	28.34	167	1.232 zu2
1969	02	11.6640324	00	30	03.998	5	39	42.32	169	1.138 zu2
1969	02	11.6648785	00	30	04.124	5	39	44.17	169	1.101 zu2
1969	02	11.6715278	00	30	05.289	5	39	54.90	152	1.087 zu2
1969	02	11.6725799	00	30	05.510	5	39	55.86	158	0.928 zu2
1969	02	11.6734861	00	30	05.664	5	39	58.08	164	0.877 zu2
1969	02	11.6753727	00	30	06.011	5	40	01.28	166	1.094 zu2
1969	02	11.6801539	00	30	06.872	5	40	09.46	170	1.051 zu2
1969	02	11.6818507	00	30	07.152	5	40	12.08	161	0.783 zu2
1969	02	11.6827083	00	30	07.296	5	40	12.76	153	0.775 zu2
1969	02	16.6824502	00	44	30.606	7	55	48.68	187	1.067 zu1
1969	02	16.6832986	00	44	30.761	7	55	50.07	180	1.059 zu1
1969	02	16.6848576	00	44	31.052	7	55	53.05	180	0.985 zu1
1969	02	16.6905903	00	44	31.977	7	56	00.87	200	1.133 zu1
1969	02	16.6914572	00	44	32.126	7	56	02.13	187	1.096 zu1
1969	02	17.6691111	00	47	12.238	8	21	43.15	184	1.141 zu1
1969	02	17.6708113	00	47	12.509	8	21	46.11	192	1.052 zu1
1969	02	17.6716736	00	47	12.572	8	21	46.51	185	1.215 zu1
1969	02	17.6723819	00	47	12.770	8	21	48.03	175	0.970 zu1
1969	02	17.6775706	00	47	13.580	8	21	55.59	174	1.096 zu1
1969	02	17.6786412	00	47	13.690	8	21	58.15	175	1.000 zu1
1969	02	17.6793773	00	47	13.844	8	21	58.61	185	1.096 zu1
1969	02	17.6833889	00	47	14.526	8	22	04.33	168	0.978 zu1
1969	02	17.6860822	00	47	14.902	8	22	09.63	174	0.993 zu1
1969	02	17.6868137	00	47	14.989	8	22	09.57	168	0.978 zu1
1969	02	17.6893935	00	47	15.437	8	22	14.19	178	0.948 zu1
1969	02	17.6917986	00	47	15.835	8	22	18.57	171	1.015 zu1
1969	02	18.6709444	00	49	52.948	8	47	41.49	185	1.000 zu1
1969	02	18.6715417	00	49	53.073	8	47	41.67	175	0.903 zu1
1969	02	18.6754618	00	49	53.692	8	47	47.93	177	0.985 zu1
1969	02	18.6788773	00	49	54.225	8	47	54.19	172	0.978 zu1

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1969	02	18.6791447	00	49	54.243	8	47	54.44	170	0.963	zu1
1969	02	18.6843623	00	49	55.069	8	48	01.69	181	1.000	zu1
1969	02	18.6920903	00	49	56.311	8	48	13.70	232	1.493	zu1
1969	02	18.6929722	00	49	56.395	8	48	15.18	195	1.343	zu1
1969	02	18.7015231	00	49	57.759	8	48	28.31	178	1.060	zu1
1969	02	18.7023183	00	49	57.908	8	48	29.69	192	1.179	zu1
1969	02	19.6591632	00	52	28.241	9	12	58.33	178	1.038	zu1
1969	02	19.6620150	00	52	28.653	9	13	02.65	178	1.000	zu1
1969	02	19.6630405	00	52	28.849	9	13	04.14	181	0.955	zu1
1969	02	20.6625301	00	55	02.306	9	38	17.10	192	1.165	zu1
1969	02	20.6634201	00	55	02.426	9	38	18.43	182	1.098	zu1
1969	02	20.6693611	00	55	03.313	9	38	27.82	197	1.060	zu1
1969	02	20.6702269	00	55	03.431	9	38	28.86	188	1.053	zu1
1969	02	21.6792222	00	57	34.610	10	03	32.05	195	0.939	zu1
1969	02	21.6852338	00	57	35.417	10	03	40.82	185	0.932	zu1
1969	02	21.6911238	00	57	36.342	10	03	49.33	181	0.848	zu1
1969	02	21.6919433	00	57	36.437	10	03	50.46	182	0.833	zu1
1969	02	22.6717882	00	59	59.418	10	27	46.72	190	1.092	zu1
1969	02	22.6771921	01	00	00.190	10	27	54.78	188	0.992	zu1
1969	02	22.6801725	01	00	00.600	10	27	59.10	191	1.053	zu1
1969	02	22.6811238	01	00	00.750	10	28	00.85	191	1.008	zu1
1969	02	22.6946053	01	00	02.662	10	28	20.40	192	1.069	zu1
1969	02	22.7011424	01	00	03.578	10	28	29.66	193	1.107	zu1
1969	02	23.6801481	01	02	22.475	10	52	00.76	202	1.246	zu1
1969	02	23.6824965	01	02	22.823	10	52	03.64	197	1.008	zu1
1969	02	23.6863322	01	02	23.329	10	52	08.52	192	1.092	zu1
1969	02	23.6871192	01	02	23.467	10	52	10.30	195	1.069	zu1
1969	02	23.6879699	01	02	23.611	10	52	10.42	190	1.046	zu1
1969	02	23.6886771	01	02	23.636	10	52	11.60	191	1.092	zu1
1969	02	23.6910058	01	02	24.038	10	52	15.30	196	1.108	zu1
1969	02	23.6964907	01	02	24.801	10	52	23.40	190	1.092	zu1
1969	02	23.6967963	01	02	24.761	10	52	23.46	191	1.038	zu1
1969	02	23.6975417	01	02	24.871	10	52	24.38	201	1.092	zu1
1969	02	23.6983414	01	02	24.975	10	52	26.05	198	1.008	zu1
1969	02	25.6639919	01	06	51.428	11	38	19.21	208	0.882	zu1
1969	02	25.6712836	01	06	52.364	11	38	29.13	198	0.882	zu1
1969	02	25.6724375	01	06	52.463	11	38	29.54	190	0.898	zu1
1969	02	25.6732801	01	06	52.586	11	38	31.00	196	0.913	zu1
1969	02	25.6759120	01	06	52.954	11	38	34.61	191	0.961	zu1
1969	02	25.6776065	01	06	53.184	11	38	36.89	191	0.992	zu1
1969	02	25.6834525	01	06	53.932	11	38	44.77	200	0.929	zu1
1969	02	25.6841076	01	06	53.998	11	38	45.65	190	0.929	zu1
1969	02	25.6858403	01	06	54.227	11	38	47.80	200	0.961	zu1
1969	02	25.6866551	01	06	54.339	11	38	48.54	191	0.945	zu1
1969	02	25.6934815	01	06	55.152	11	38	59.17	206	1.024	zu1
1969	02	27.6591076	01	11	03.688	12	22	57.78	210	0.800	zu1
1969	02	27.6618414	01	11	03.980	12	23	02.23	204	0.784	zu1
1969	02	27.6730035	01	11	05.335	12	23	15.08	199	0.824	zu1
1969	02	27.6775880	01	11	05.830	12	23	22.04	204	0.792	zu1
1969	02	27.6782222	01	11	05.948	12	23	22.53	194	0.800	zu1
1969	02	27.6799560	01	11	06.129	12	23	24.09	197	0.760	zu1
1969	02	27.6947685	01	11	07.908	12	23	43.93	200	0.720	zu1

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1969	02	27.6952928	01	11	07.994	12	23	43.77	197	0.704	zu1
1969	02	28.6957384	01	13	06.931	12	45	19.52	210	1.024	zu1
1969	02	28.6985127	01	13	07.247	12	45	23.11	210	1.000	zu1
1969	02	28.7035000	01	13	07.827	12	45	29.26	222	1.145	zu1
1969	02	28.7063403	01	13	08.177	12	45	33.59	210	0.903	zu1
1969	03	01.6705972	01	14	57.971	13	05	50.55	202	0.639	zu1
1969	03	01.6758102	01	14	58.503	13	05	56.44	200	0.639	zu1
1969	03	01.6779965	01	14	58.755	13	05	59.55	210	0.631	zu1
1969	03	01.6808356	01	14	59.046	13	06	03.23	197	0.648	zu1
1969	03	02.6835787	01	16	47.820	13	26	32.31	209	0.892	zu1
1969	03	02.6970683	01	16	49.132	13	26	48.78	216	0.875	zu1
1969	03	02.6991273	01	16	49.360	13	26	52.18	219	0.792	zu1
1969	03	02.7002049	01	16	49.458	13	26	53.22	208	0.817	zu1
1969	03	02.7012465	01	16	49.630	13	26	53.77	208	0.742	zu1
1969	03	02.7042743	01	16	49.898	13	26	57.56	218	0.858	zu1
1969	03	02.7052095	01	16	50.007	13	26	58.48	203	0.725	zu1
1969	03	02.7061030	01	16	50.079	13	27	00.14	196	0.717	zu1
1969	03	02.7103530	01	16	50.602	13	27	04.94	194	0.650	zu1
1969	03	02.7112616	01	16	50.646	13	27	05.82	209	0.667	zu1
1969	03	02.7144850	01	16	50.974	13	27	09.29	208	0.700	zu1
1969	03	02.7155255	01	16	51.040	13	27	10.42	203	0.800	zu1
1969	03	05.6934051	01	21	39.285	14	24	19.88	215	0.737	zu1
1969	03	05.6996655	01	21	39.829	14	24	25.96	223	0.833	zu1
1969	03	05.7012199	01	21	39.944	14	24	27.60	225	1.175	zu1
1969	03	05.7027859	01	21	40.113	14	24	29.77	217	0.702	zu1
1969	03	05.7038275	01	21	40.203	14	24	30.32	207	0.693	zu1
1969	03	05.7048762	01	21	40.251	14	24	31.78	210	0.851	zu1
1969	03	08.6787604	01	25	32.213	15	15	27.21	235	1.257	zu1
1969	03	08.6979606	01	25	33.493	15	15	44.75	240	1.212	zu1
1969	03	08.6988368	01	25	33.591	15	15	45.35	249	1.115	zu1
1969	03	08.6996806	01	25	33.573	15	15	45.93	249	1.097	zu1
1969	03	08.7026806	01	25	33.807	15	15	49.06	251	1.195	zu1
1969	03	08.7062731	01	25	34.055	15	15	52.27	265	1.433	zu1
1969	03	08.7182384	01	25	34.825	15	16	03.75	250	1.274	zu1
1969	03	18.6976065	01	30	26.444	17	09	47.00	274	0.847	zu1
1969	03	18.6988912	01	30	26.361	17	09	46.57	280	1.181	zu1
1969	03	18.7017662	01	30	26.375	17	09	47.98	279	0.861	zu1
1969	03	18.7103472	01	30	26.238	17	09	50.84	278	1.181	zu1
1969	03	18.7117824	01	30	26.177	17	09	50.84	276	1.208	zu1
1969	03	18.7125336	01	30	26.183	17	09	51.40	270	1.208	zu1
1969	03	18.7137326	01	30	26.210	17	09	52.01	262	0.931	zu1
1969	03	18.7163831	01	30	26.139	17	09	52.98	292	1.139	zu1
1969	03	18.7181563	01	30	26.152	17	09	53.68	287	1.194	zu1
1969	03	21.7328600	01	29	07.539	17	22	32.67	280	1.292	zu1
1969	03	21.7337569	01	29	07.475	17	22	32.98	280	1.385	zu1
1969	03	21.7344259	01	29	07.444	17	22	33.12	282	1.354	zu1
1969	03	21.7352813	01	29	07.447	17	22	33.18	275	1.246	zu1
1969	03	23.7321146	01	27	30.659	17	24	17.07	287	1.304	zu1
1972	01	31.6397743	23	19	59.357	-5	30	29.96	82	1.138	zu1
1972	01	31.6417801	23	19	59.868	-5	30	26.30	87	1.154	zu1
1972	01	31.6426563	23	20	00.089	-5	30	25.03	87	1.154	zu1
1972	01	31.6435822	23	20	00.354	-5	30	23.10	87	1.130	zu1

		1	2		3		4	5		
1972	01	31.6462627	23	20	01.063	-5	30	17.90	102	1.504 yфш
1972	01	31.6476192	23	20	01.417	-5	30	15.66	93	1.317 yфш
1972	02	01.6307292	23	24	20.191	-4	59	57.06	96	1.073 zu1
1972	02	01.6321285	23	24	20.573	-4	59	54.79	89	1.106 zu1
1972	02	01.6334699	23	24	20.917	-4	59	52.22	93	1.122 zu1
1972	02	01.6366285	23	24	21.737	-4	59	46.25	83	1.049 zu1
1972	02	01.6393657	23	24	22.465	-4	59	40.94	97	1.309 zu1
1972	02	02.6336019	23	28	43.391	-4	28	54.84	86	1.260 zu1
1972	02	02.6350775	23	28	43.797	-4	28	52.64	86	1.041 zu1
1972	02	02.6393495	23	28	44.905	-4	28	44.21	104	1.496 yфш
1972	02	02.6405891	23	28	45.233	-4	28	41.40	99	1.333 yфш
1972	02	02.6419282	23	28	45.563	-4	28	39.45	104	1.358 yфш
1972	02	02.6444583	23	28	46.215	-4	28	33.92	83	1.138 zu1
1972	02	02.6473113	23	28	46.973	-4	28	28.86	82	1.024 zu1
1972	02	05.6415671	23	41	48.456	-2	55	10.88	86	1.129 zu1
1972	02	05.6436053	23	41	48.984	-2	55	07.33	92	1.185 zu1
1972	02	05.6446597	23	41	49.252	-2	55	05.01	86	1.065 zu1
1972	02	05.6459294	23	41	49.596	-2	55	02.72	81	1.096 zu1
1972	02	05.6499699	23	41	50.598	-2	54	55.00	82	1.032 yфш
1972	02	05.6525046	23	41	51.280	-2	54	50.98	90	1.113 yфш
1972	02	05.6537512	23	41	51.596	-2	54	48.40	88	1.081 yфш
1972	02	06.6399271	23	46	07.726	-2	23	54.74	83	1.073 zu1
1972	02	06.6411007	23	46	08.024	-2	23	52.51	94	1.210 zu1
1972	02	06.6423333	23	46	08.336	-2	23	50.14	93	1.225 zu1
1972	02	06.6584200	23	46	12.514	-2	23	19.98	108	1.540 yфш
1972	02	06.6598300	23	46	12.890	-2	23	17.46	112	1.597 yфш
1972	02	07.6367025	23	50	25.964	-1	52	37.78	93	0.952 zu1
1972	02	07.6381887	23	50	26.341	-1	52	34.77	87	1.113 zu1
1972	02	07.6396192	23	50	26.714	-1	52	32.36	90	1.065 zu1
1972	02	07.6451597	23	50	28.152	-1	52	21.60	88	1.169 zu1
1972	02	07.6466042	23	50	28.517	-1	52	19.26	73	0.919 zu1
1972	02	07.6480069	23	50	28.892	-1	52	16.70	76	0.895 zu1
1972	02	07.6494282	23	50	29.252	-1	52	14.06	87	1.097 zu1
1972	02	10.6474919	00	03	22.776	0	17	52.75	84	1.088 zu1
1972	02	10.6487789	00	03	23.113	0	17	50.51	75	0.968 zu1
1972	02	10.6557731	00	03	24.893	0	17	37.09	83	0.992 zu1
1972	02	10.6570266	00	03	25.201	0	17	35.05	79	0.912 zu1
1972	02	10.6610671	00	03	26.211	0	17	27.61	86	1.048 yфш
1972	02	10.6622963	00	03	26.534	0	17	25.07	87	1.088 yфш
1972	02	10.6634560	00	03	26.859	0	17	22.85	86	1.072 yфш
1972	02	20.6547766	00	46	00.117	4	56	07.26	87	0.825 zu1
1972	02	20.6596007	00	46	01.321	4	56	16.18	89	1.143 zu1
1972	02	20.6607095	00	46	01.605	4	56	18.00	88	1.071 zu1
1972	02	20.6685139	00	46	03.611	4	56	32.86	92	1.056 yфш
1972	02	20.6706563	00	46	04.151	4	56	37.16	112	1.373 yфш
1972	02	21.6550359	00	50	14.373	5	27	06.86	87	1.063 zu1
1972	02	21.6562731	00	50	14.719	5	27	09.82	100	1.189 zu1
1972	02	21.6594398	00	50	15.516	5	27	15.04	97	1.197 yфш
1972	02	21.6620995	00	50	16.189	5	27	20.04	106	1.283 yфш
1972	02	21.6650000	00	50	16.897	5	27	25.92	96	1.063 zu1
1972	02	21.6662176	00	50	17.248	5	27	28.23	91	1.165 zu1
1972	02	21.6691030	00	50	17.967	5	27	33.75	101	1.134 zu1

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1972	02	21.6731470	00	50	18.997	5	27	40.74	105	1.276 yфш
1972	02	25.6590509	01	07	11.222	7	29	55.10	116	1.344 yфш
1972	02	25.6602766	01	07	11.526	7	29	57.03	114	1.312 yфш
1972	02	26.6668160	01	11	26.976	8	00	26.64	102	1.211 yфш
1972	02	26.6690764	01	11	27.561	8	00	30.81	104	1.281 yфш
1972	02	26.6701875	01	11	27.838	8	00	33.05	113	1.375 yфш
1972	02	26.6745428	01	11	28.921	8	00	40.75	99	1.086 zu1
1972	02	26.6757431	01	11	29.244	8	00	42.84	100	1.164 zu1
1972	02	26.6768565	01	11	29.512	8	00	44.99	98	1.117 zu1
1972	02	26.6779155	01	11	29.776	8	00	47.06	103	1.172 zu1
1972	02	26.6790278	01	11	30.038	8	00	48.90	97	1.102 zu1
1972	02	26.6824248	01	11	30.910	8	00	55.04	100	1.008 yфш
1972	02	26.6833900	01	11	31.154	8	00	56.78	97	1.023 yфш
1972	02	26.6854618	01	11	31.679	8	01	00.06	96	1.023 yфш
1972	02	26.6904757	01	11	32.956	8	01	09.24	104	1.203 yфш
1972	02	26.6937639	01	11	33.760	8	01	15.35	114	1.312 yфш
1972	02	27.6724097	01	15	42.149	8	30	43.28	97	1.016 zu1
1972	02	27.6749340	01	15	42.810	8	30	47.50	103	1.219 zu1
1972	02	27.6774653	01	15	43.438	8	30	52.23	106	1.227 zu1
1972	02	27.6787836	01	15	43.780	8	30	54.38	110	1.320 zu1
1972	02	27.6830023	01	15	44.808	8	31	01.85	96	0.969 yфш
1972	02	27.6842280	01	15	45.113	8	31	04.62	96	0.898 yфш
1972	02	27.6852188	01	15	45.384	8	31	05.84	107	1.148 yфш
1972	02	27.6865231	01	15	45.722	8	31	08.14	110	1.328 yфш
1972	02	27.6876748	01	15	46.013	8	31	11.04	110	1.102 yфш
1972	02	27.6905602	01	15	46.744	8	31	15.56	88	0.859 zu1
1972	02	27.6966632	01	15	48.286	8	31	27.05	100	1.164 zu1
1972	02	27.6995220	01	15	48.998	8	31	32.36	90	0.891 zu1
1972	02	28.6731215	01	19	56.118	9	00	39.70	95	0.922 zu1
1972	02	28.6759398	01	19	56.826	9	00	44.99	97	1.016 zu1
1972	02	28.6774259	01	19	57.218	9	00	47.95	97	0.984 zu1
1972	02	28.6815984	01	19	58.246	9	00	55.44	86	0.859 zu1
1972	02	28.6830289	01	19	58.612	9	00	57.68	95	0.977 zu1
1972	02	28.6844873	01	19	58.980	9	01	00.48	98	0.984 zu1
1972	02	28.6872311	01	19	59.625	9	01	05.34	87	0.844 yфш
1972	03	04.7010576	01	41	12.985	11	27	55.07	99	0.876 zu1
1972	03	04.7042642	01	41	13.757	11	28	00.38	91	0.791 zu1
1972	03	05.6781921	01	45	21.411	11	55	51.17	96	0.853 zu1
1972	03	05.6793322	01	45	21.709	11	55	52.81	103	0.969 zu1
1972	03	05.6804051	01	45	22.002	11	55	54.63	94	0.698 zu1
1972	03	05.6856539	01	45	23.302	11	56	03.79	99	1.047 zu1
1972	03	05.6878738	01	45	23.866	11	56	07.43	99	0.930 zu1
1972	03	05.6890278	01	45	24.164	11	56	09.30	102	0.930 zu1
1972	03	05.6901690	01	45	24.461	11	56	11.21	101	0.961 zu1
1972	03	05.6963553	01	45	26.024	11	56	21.55	95	0.884 yфш
1972	03	05.6982975	01	45	26.534	11	56	24.91	115	1.016 yфш
1972	03	05.7002778	01	45	27.019	11	56	28.33	98	0.961 yфш
1972	03	06.6725799	01	49	34.416	12	24	01.15	101	0.977 zu1
1972	03	06.6735312	01	49	34.634	12	24	02.53	102	0.985 zu1
1972	03	06.6822975	01	49	36.857	12	24	17.27	88	0.892 zu1
1972	03	06.6837581	01	49	37.237	12	24	19.61	90	0.854 zu1
1972	03	06.6859850	01	49	37.817	12	24	23.66	95	0.838 zu1

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1972	03	06.6870347	01	49	38.043	12	24	24.90	94	0.808	zu1
1972	03	06.6880822	01	49	38.312	12	24	27.01	97	0.892	zu1
1972	03	06.6891111	01	49	38.583	12	24	28.37	94	0.854	zu1
1972	03	06.6901574	01	49	38.871	12	24	29.97	97	0.923	zu1
1972	03	06.6940579	01	49	39.845	12	24	36.49	102	1.023	zu1
1972	03	06.6953796	01	49	40.194	12	24	39.56	95	0.931	zu1
1972	03	06.6963866	01	49	40.427	12	24	40.93	95	0.962	zu1
1972	03	06.6974502	01	49	40.694	12	24	42.91	93	0.885	zu1
1972	03	06.6993345	01	49	41.162	12	24	45.96	95	0.877	zu1
1972	03	07.6801516	01	53	50.873	12	52	16.48	94	0.923	zu1
1972	03	07.6821956	01	53	51.408	12	52	19.89	91	0.885	zu1
1972	03	07.6831852	01	53	51.626	12	52	21.27	97	0.938	zu1
1972	03	07.6843484	01	53	51.950	12	52	23.39	96	0.885	zu1
1972	03	08.6872766	01	58	07.384	13	20	13.73	113	0.931	zu1
1972	03	08.6878484	01	58	07.530	13	20	14.75	94	0.823	zu1
1972	03	09.6867361	02	02	22.176	13	47	41.37	105	1.062	zu1
1972	03	09.6969190	02	02	24.728	13	47	57.79	88	0.823	zu1
1972	03	09.7027407	02	02	26.202	13	48	07.92	97	0.862	zu1
1972	03	09.7045891	02	02	26.682	13	48	10.73	95	0.877	zu1
1972	03	09.7072569	02	02	27.336	13	48	15.17	95	0.854	zu1
1972	03	10.6822824	02	06	36.113	14	14	44.43	96	1.000	zu1
1972	03	10.6835521	02	06	36.403	14	14	46.77	101	0.962	zu1
1972	03	10.6848866	02	06	36.770	14	14	49.07	92	0.954	zu1
1972	03	10.6875185	02	06	37.447	14	14	52.85	124	1.308	yфш
1972	03	10.6887685	02	06	37.731	14	14	55.34	118	1.285	yфш
1972	03	10.6899213	02	06	38.017	14	14	56.47	114	1.200	yфш
1972	03	10.6910208	02	06	38.306	14	14	58.59	114	1.185	yфш
1972	03	10.6936910	02	06	38.959	14	15	02.37	102	1.015	zu1
1972	03	10.6996481	02	06	40.509	14	15	12.27	110	0.969	zu1
1972	03	10.7031285	02	06	41.378	14	15	17.55	117	0.985	yфш
1972	03	10.7043704	02	06	41.691	14	15	20.27	113	1.038	yфш
1972	03	10.7055463	02	06	41.991	14	15	21.57	105	0.885	yфш
1972	03	11.6827060	02	10	51.434	14	41	36.61	103	0.946	zu1
1972	03	11.6839363	02	10	51.768	14	41	38.71	104	1.061	zu1
1972	03	11.6851111	02	10	52.052	14	41	41.01	106	1.061	zu1
1972	03	11.6895150	02	10	53.159	14	41	47.94	106	0.962	zu1
1972	03	11.6906759	02	10	53.506	14	41	49.68	104	1.038	zu1
1972	03	11.6918299	02	10	53.737	14	41	51.68	106	1.015	zu1
1972	03	11.6930718	02	10	54.076	14	41	53.45	94	0.939	zu1
1972	03	11.6942303	02	10	54.365	14	41	55.15	101	1.015	zu1
1972	03	11.7186296	02	11	00.603	14	42	33.59	102	0.916	zu1
1972	03	11.7198310	02	11	00.868	14	42	35.77	104	1.053	zu1
1972	03	11.7210104	02	11	01.207	14	42	37.91	97	1.015	zu1
1972	03	11.7249560	02	11	02.179	14	42	43.97	101	0.992	zu1
1972	03	11.7261574	02	11	02.523	14	42	45.67	97	0.939	zu1
1972	03	11.7273773	02	11	02.799	14	42	47.72	97	0.947	zu1
1972	03	13.6963634	02	19	25.987	15	34	42.15	112	1.038	zu1
1972	03	13.6975255	02	19	26.263	15	34	44.00	117	1.046	zu1
1972	03	13.7034676	02	19	27.771	15	34	52.89	116	1.084	zu1
1972	03	14.6886019	02	23	39.779	16	00	21.15	114	1.046	zu1
1972	03	14.6896597	02	23	40.086	16	00	23.10	108	0.977	zu1
1972	03	14.6907488	02	23	40.375	16	00	24.95	111	1.069	zu1

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1972	03	14.6919074	02	23	40.669	16	00	25.87	114	1.084	zu1		
1972	03	14.6930602	02	23	40.941	16	00	28.20	114	1.053	zu1		
1972	03	14.6968600	02	23	41.926	16	00	33.92	105	0.954	yфш		
1972	03	14.6978970	02	23	42.181	16	00	34.86	105	0.931	yфш		
1972	03	14.7001574	02	23	42.746	16	00	38.52	108	0.992	yфш		
1972	03	14.7026563	02	23	43.376	16	00	42.24	104	0.924	yфш		
1972	03	14.7062558	02	23	44.290	16	00	48.16	105	0.931	yфш		
1972	03	14.7081863	02	23	44.792	16	00	51.52	114	1.031	yфш		
1972	03	15.7016644	02	27	59.124	16	26	10.44	101	0.901	zu1		
1972	03	15.7027963	02	27	59.424	16	26	12.74	112	0.840	zu1		
1972	03	15.7050961	02	27	59.974	16	26	15.97	103	0.901	zu1		
1972	03	15.7101586	02	28	01.301	16	26	23.58	104	0.863	zu1		
1972	03	15.7126713	02	28	01.936	16	26	27.44	107	0.878	zu1		
1972	03	15.7138704	02	28	02.224	16	26	29.08	107	0.977	zu1		
1972	03	15.7150972	02	28	02.565	16	26	31.26	105	0.916	zu1		
1972	03	15.7183750	02	28	03.370	16	26	35.54	105	0.939	yфш		
1972	03	15.7207778	02	28	04.000	16	26	39.84	106	0.954	yфш		
1972	03	15.7231250	02	28	04.574	16	26	42.70	104	0.893	yфш		
1972	03	16.6949919	02	32	13.568	16	51	08.78	112	0.962	zu1		
1972	03	16.6961748	02	32	13.890	16	51	10.05	111	1.008	zu1		
1972	03	16.6972419	02	32	14.147	16	51	11.32	107	0.908	zu1		
1972	03	16.7034190	02	32	15.724	16	51	21.03	111	1.008	zu1		
1972	03	16.7054641	02	32	16.242	16	51	23.86	107	0.908	zu1		
1972	03	18.6909803	02	40	45.252	17	40	11.00	107	0.939	zu1		
1972	03	18.6927176	02	40	45.724	17	40	13.57	113	0.985	zu1		
1972	03	18.7023796	02	40	48.123	17	40	27.06	113	0.894	yфш		
1972	03	18.7033981	02	40	48.397	17	40	28.26	116	1.106	yфш		
1972	03	18.7055255	02	40	48.959	17	40	31.20	116	1.038	yфш		
1972	03	18.7113472	02	40	50.458	17	40	39.74	118	1.023	zu1		
1972	03	18.7162859	02	40	51.695	17	40	47.38	115	1.083	zu1		
1972	03	19.6975069	02	45	03.411	18	04	18.60	109	0.985	yфш		
1972	03	19.6986366	02	45	03.712	18	04	20.34	104	0.833	yфш		
1972	03	19.7009907	02	45	04.295	18	04	23.76	106	0.962	yфш		
1972	03	20.6888044	02	49	17.767	18	27	41.26	121	0.992	zu1		
1972	03	20.6912245	02	49	18.413	18	27	44.46	113	0.924	zu1		
1972	03	20.6939688	02	49	19.071	18	27	47.63	105	1.053	yфш		
1972	03	20.6962512	02	49	19.685	18	27	50.78	101	0.833	yфш		
1972	03	20.7006400	02	49	20.849	18	27	57.65	117	1.023	zu1		
1972	03	20.7019375	02	49	21.165	18	27	58.98	112	0.985	zu1		
1972	03	20.7043356	02	49	21.771	18	28	02.58	114	1.015	zu1		
1972	03	20.7054676	02	49	22.055	18	28	04.06	115	0.985	zu1		
1972	03	20.7104688	02	49	23.313	18	28	10.72	111	0.894	yфш		
1972	03	20.7126609	02	49	23.881	18	28	13.47	103	0.750	yфш		
1972	03	20.7149051	02	49	24.455	18	28	17.04	107	0.848	yфш		
1972	03	21.6983449	02	53	36.843	18	51	02.92	113	0.992	zu1		
1972	03	21.6995775	02	53	37.181	18	51	04.80	105	0.886	zu1		
1972	03	21.7020648	02	53	37.816	18	51	08.52	108	0.924	yфш		
1972	03	21.7020648	02	53	37.825	18	51	08.54	111	0.955	yфш		
1972	03	21.7031991	02	53	38.105	18	51	09.86	105	0.841	yфш		
1972	03	21.7086933	02	53	39.503	18	51	17.16	105	0.856	yфш		
1972	03	21.7109097	02	53	40.069	18	51	19.96	102	0.795	yфш		
1972	03	21.7119444	02	53	40.324	18	51	22.06	106	0.871	yфш		

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1972	03	21.7119444	02	53	40.345	18	51	21.58	112	0.924	yфш		
1972	03	21.7142072	02	53	40.901	18	51	24.76	106	0.871	zu1		
1972	03	25.7019282	03	10	44.174	20	19	26.78	114	0.917	zu1		
1972	03	28.7040845	03	23	33.261	21	20	56.41	116	0.805	zu1		
1972	03	28.7052164	03	23	33.525	21	20	58.15	113	0.782	zu1		
1972	03	28.7108461	03	23	34.969	21	21	04.21	108	0.917	zu1		
1972	03	28.7129931	03	23	35.533	21	21	07.79	113	0.752	zu1		
1972	03	28.7150845	03	23	36.047	21	21	09.73	124	0.910	zu1		
1972	03	28.7178160	03	23	36.741	21	21	12.85	115	0.887	yфш		
1972	03	28.7188623	03	23	37.019	21	21	14.11	120	0.865	yфш		
1972	03	28.7200498	03	23	37.319	21	21	16.15	121	0.850	yфш		
1972	03	28.7210787	03	23	37.590	21	21	16.21	114	0.872	yфш		
1972	03	28.7235208	03	23	38.221	21	21	19.47	120	1.045	zu2		
1972	03	28.7245162	03	23	38.505	21	21	20.90	125	1.165	zu2		
1972	03	28.7255266	03	23	38.745	21	21	22.29	130	1.278	zu2		
1972	03	28.7292211	03	23	39.639	21	21	26.08	113	0.857	yфш		
1972	03	28.7302836	03	23	39.951	21	21	27.28	113	0.902	yфш		
1972	03	28.7313935	03	23	40.233	21	21	28.93	120	0.917	yфш		
1972	03	28.7323148	03	23	40.451	21	21	29.53	120	0.887	yфш		
1972	03	31.7097512	03	36	20.868	22	18	12.52	125	0.963	zu1		
1972	03	31.7122442	03	36	21.516	22	18	15.91	138	1.097	zu1		
1972	03	31.7160741	03	36	22.485	22	18	20.05	127	0.970	zu1		
1972	03	31.7172072	03	36	22.772	22	18	20.69	126	0.940	zu1		
1972	03	31.7206238	03	36	23.629	22	18	24.75	130	0.940	zu1		
1972	03	31.7231840	03	36	24.269	22	18	26.79	124	0.910	yфш		
1972	03	31.7290058	03	36	25.752	22	18	33.63	124	0.933	yфш		
1972	03	31.7313113	03	36	26.320	22	18	35.68	121	0.866	yфш		
1972	03	31.7335012	03	36	26.865	22	18	37.75	122	0.821	yфш		
1972	03	31.7343345	03	36	27.088	22	18	39.31	120	0.851	yфш		
1972	03	31.7373333	03	36	27.857	22	18	42.95	124	0.970	zu2		
1972	03	31.7383993	03	36	28.153	22	18	44.19	125	1.000	zu2		
1972	03	31.7395278	03	36	28.436	22	18	45.43	131	1.075	zu2		
1972	03	31.7406782	03	36	28.722	22	18	46.17	126	0.978	zu2		
1972	03	31.7418113	03	36	29.020	22	18	47.98	122	1.000	zu2		
1972	03	31.7429236	03	36	29.302	22	18	48.59	129	1.000	zu2		
1972	04	03.7145995	03	49	04.393	23	10	58.70	124	0.806	zu1		
1972	04	03.7161019	03	49	04.779	23	11	00.26	127	0.910	zu1		
1972	04	03.7202106	03	49	05.789	23	11	04.04	127	0.731	yфш		
1972	04	03.7351238	03	49	09.602	23	11	18.89	142	0.903	zu1		
1972	04	11.7235926	04	22	26.309	25	08	40.37	139	0.851	zu1		
1972	04	11.7315706	04	22	28.268	25	08	45.83	130	0.896	zu1		
1972	04	11.7325613	04	22	28.503	25	08	46.33	143	1.007	zu1		
1972	04	11.7335336	04	22	28.752	25	08	47.47	137	1.022	zu1		
1972	04	11.7345509	04	22	29.007	25	08	48.41	142	1.060	zu1		
1972	04	11.7369074	04	22	29.527	25	08	49.61	134	0.828	yфш		
1972	04	11.7379167	04	22	29.795	25	08	50.69	140	0.873	yфш		
1972	04	11.7409583	04	22	30.555	25	08	52.76	132	0.896	yфш		
1972	04	11.7420810	04	22	30.855	25	08	54.01	138	0.918	yфш		
1972	04	11.7480301	04	22	32.289	25	08	58.47	132	0.791	zu1		
1972	04	11.7492488	04	22	32.576	25	08	58.41	132	0.746	zu1		
1972	04	11.7514711	04	22	33.131	25	09	00.36	139	0.903	zu1		
1972	04	11.7519711	04	22	33.263	25	09	01.21	129	0.858	zu1		

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1972	04	12.7310069	04	26	33.148	25	21	02.44	138	0.791	yфш		
1972	04	12.7329213	04	26	33.631	25	21	03.59	131	0.716	yфш		
1972	04	12.7355856	04	26	34.300	25	21	06.41	140	1.060	zu1		
1972	04	12.7366898	04	26	34.579	25	21	06.83	140	1.022	zu1		
1972	04	12.7389537	04	26	35.093	25	21	08.61	139	0.933	zu1		
1972	04	12.7400810	04	26	35.382	25	21	09.39	138	0.895	zu1		
1972	04	12.7422940	04	26	35.933	25	21	10.57	130	0.634	yфш		
1972	04	12.7442199	04	26	36.394	25	21	11.47	134	0.784	yфш		
1972	04	12.7453032	04	26	36.654	25	21	12.31	135	0.694	yфш		
1972	04	12.7568403	04	26	39.485	25	21	20.89	142	1.075	zu1		
1972	04	12.7579201	04	26	39.758	25	21	21.36	138	1.052	zu1		
1972	04	13.7343785	04	30	37.649	25	32	49.70	147	0.993	zu1		
1972	04	13.7356655	04	30	37.924	25	32	51.23	142	0.963	zu1		
1972	04	13.7368449	04	30	38.223	25	32	51.42	139	0.963	zu1		
1972	04	13.7410891	04	30	39.233	25	32	54.35	145	1.157	zu2		
1972	04	13.7422442	04	30	39.511	25	32	55.19	136	1.000	zu2		
1972	04	13.7434190	04	30	39.799	25	32	56.09	142	1.157	zu2		
1972	04	13.7444641	04	30	40.069	25	32	56.37	137	1.007	zu2		
1972	04	13.7478333	04	30	40.835	25	32	58.78	139	0.739	yфш		
1972	04	13.7535718	04	30	42.211	25	33	02.02	133	0.724	yфш		
1972	04	13.7595919	04	30	43.685	25	33	06.63	138	0.761	yфш		
1972	04	14.7318345	04	34	39.078	25	44	00.59	145	1.008	zu1		
1972	04	14.7340556	04	34	39.618	25	44	01.45	144	1.000	zu1		
1972	04	14.7444514	04	34	42.092	25	44	08.33	144	0.835	yфш		
1972	04	14.7458125	04	34	42.426	25	44	09.04	132	0.714	yфш		
1972	04	14.7529965	04	34	44.166	25	44	13.61	142	0.805	zu1		
1972	04	14.7554479	04	34	44.756	25	44	15.21	140	0.722	zu1		
1972	04	14.7608484	04	34	46.052	25	44	19.02	130	0.782	zu1		
1972	04	16.7422083	04	42	40.534	26	04	52.26	142	0.774	yфш		
1972	04	16.7433391	04	42	40.796	26	04	52.97	140	0.812	yфш		
1972	04	16.7474271	04	42	41.782	26	04	54.96	149	1.128	zu2		
1972	04	16.7485787	04	42	42.050	26	04	56.37	152	1.023	zu2		
1972	04	16.7509132	04	42	42.614	26	04	57.15	150	1.015	zu2		
1972	04	16.7531505	04	42	43.157	26	04	58.43	156	1.142	zu2		
1972	04	16.7570289	04	42	44.071	26	05	01.19	148	1.105	yфш		
1972	04	16.7592384	04	42	44.570	26	05	02.62	148	0.932	yфш		
1972	04	16.7602593	04	42	44.824	26	05	02.95	150	0.940	yфш		
1972	04	16.7676204	04	42	46.552	26	05	06.90	145	0.902	yфш		
1972	04	16.7700660	04	42	47.162	26	05	08.83	141	0.759	yфш		
1972	04	16.7712188	04	42	47.416	26	05	08.87	146	0.774	yфш		
1972	04	17.7381343	04	46	36.221	26	14	24.20	142	0.850	yфш		
1972	04	17.7391979	04	46	36.495	26	14	24.96	143	0.842	yфш		
1972	04	17.7413576	04	46	36.985	26	14	25.88	146	0.880	yфш		
1972	04	17.7424815	04	46	37.237	26	14	26.24	144	0.865	yфш		
1972	04	17.7583854	04	46	40.999	26	14	35.60	151	0.872	zu1		
1972	04	17.7609502	04	46	41.587	26	14	36.31	148	0.940	zu1		
1972	04	17.7619167	04	46	41.833	26	14	36.74	141	0.895	zu1		
1972	04	17.7630984	04	46	42.119	26	14	37.88	147	0.962	zu1		
1972	04	17.7662373	04	46	42.831	26	14	39.50	145	1.038	zu1		
1972	04	17.7674317	04	46	43.123	26	14	40.03	146	0.902	zu1		
1972	04	17.7698356	04	46	43.701	26	14	41.42	150	0.902	zu1		
1972	04	19.7409120	04	54	23.757	26	31	55.98	150	0.842	yфш		

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1972	04	19.7420938	04	54	24.039	26	31	56.83	149	0.842	yфш
1972	04	19.7585556	04	54	27.855	26	32	04.54	147	0.722	yфш
1972	04	21.7455127	05	02	02.175	26	47	19.38	149	1.008	zu2
1972	04	21.7503843	05	02	03.282	26	47	21.32	144	1.045	zu2
1972	04	21.7563299	05	02	04.610	26	47	24.06	138	0.780	zu1
1972	04	22.7548981	05	05	48.964	26	54	15.08	156	0.977	yфш
1972	04	22.7560069	05	05	49.234	26	54	16.08	166	1.137	yфш
1972	04	22.7571111	05	05	49.464	26	54	16.38	160	1.115	yфш
1972	04	22.7595880	05	05	50.040	26	54	17.44	165	1.000	zu1
1972	04	22.7608079	05	05	50.294	26	54	11.26	164	1.023	zu1
1972	04	22.7620093	05	05	50.554	26	54	17.84	169	1.107	zu1
1972	04	22.7632292	05	05	50.844	26	54	18.36	163	0.954	zu1
1972	04	22.7644317	05	05	51.099	26	54	18.64	164	1.076	zu1
1972	04	22.7671076	05	05	51.702	26	54	19.80	152	0.824	zu1
1972	04	22.7695313	05	05	52.230	26	54	20.94	155	0.931	zu1
1972	04	24.7574734	05	13	10.181	27	06	25.83	162	0.954	zu1
1972	04	24.7600752	05	13	10.725	27	06	26.93	157	0.916	zu1
1972	04	24.7612778	05	13	10.971	27	06	26.76	163	0.878	zu1
1972	04	24.7639144	05	13	11.539	27	06	27.84	158	0.863	zu1
1972	04	24.7661019	05	13	12.021	27	06	28.48	155	0.779	zu1
1972	04	24.7671620	05	13	12.237	27	06	28.23	155	0.786	zu1
1972	04	24.7692905	05	13	12.717	27	06	29.39	164	0.794	zu1
1972	04	24.7727488	05	13	13.431	27	06	30.18	161	0.855	yфш
1972	04	25.7564086	05	16	45.555	27	11	43.05	163	0.892	zu1
1972	04	25.7575579	05	16	45.773	27	11	43.79	165	0.877	zu1
1972	04	25.7587188	05	16	46.021	27	11	44.25	156	0.900	zu1
1972	04	25.7683831	05	16	48.100	27	11	46.07	135	0.700	zu1
1972	04	26.7583160	05	20	18.185	27	16	30.10	162	0.723	zu1
1972	04	26.7594271	05	20	18.418	27	16	30.79	157	0.769	zu1
1972	04	26.7631806	05	20	19.188	27	16	31.31	156	0.592	zu1
1972	04	26.7642708	05	20	19.429	27	16	31.87	149	0.669	zu1
1972	04	26.7695799	05	20	20.524	27	16	33.37	161	0.823	yфш
1972	04	26.7717245	05	20	20.991	27	16	32.93	165	0.954	yфш
1972	04	26.7727639	05	20	21.206	27	16	33.53	166	0.915	yфш
1972	04	29.7588762	05	30	33.041	27	27	47.93	155	0.781	zu1
1972	04	29.7631713	05	30	33.889	27	27	48.69	162	0.656	zu1
1972	04	29.7643553	05	30	34.129	27	27	48.82	168	0.703	zu1
1972	04	29.7670475	05	30	34.649	27	27	49.29	172	0.703	yфш
1972	04	29.7682234	05	30	34.884	27	27	49.13	170	0.727	yфш
1972	04	29.7710162	05	30	35.469	27	27	49.94	166	0.844	yфш
1972	04	29.7722176	05	30	35.685	27	27	50.17	166	0.750	yфш
1972	04	29.7745984	05	30	36.155	27	27	50.13	163	0.813	yфш
1972	04	30.7611354	05	33	50.463	27	30	35.02	172	0.850	zu1
1972	04	30.7643877	05	33	51.100	27	30	35.16	168	0.717	zu1
1972	04	30.7666516	05	33	51.561	27	30	35.40	172	0.835	zu1
1972	04	30.7692211	05	33	52.053	27	30	35.90	158	0.646	zu1
1972	04	30.7728600	05	33	52.749	27	30	36.46	163	0.693	zu1
1972	04	30.7756759	05	33	53.281	27	30	36.46	181	0.866	yфш
1972	04	30.7769468	05	33	53.544	27	30	36.63	184	0.906	yфш
1972	05	01.7627477	05	37	03.452	27	32	51.88	173	0.778	zu1
1972	05	01.7639236	05	37	03.678	27	32	52.15	168	0.746	zu1
1972	05	01.7653507	05	37	03.967	27	32	52.49	175	0.746	zu1

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1972	05	01.7665035	05	37	04.156	27	32	52.70	175	0.794	zu1
1972	05	01.7690741	05	37	04.669	27	32	52.54	175	0.897	zu1
1972	05	01.7714757	05	37	05.116	27	32	52.70	173	0.810	zu1
1972	05	01.7726481	05	37	05.355	27	32	53.02	171	0.738	zu1
1972	05	01.7737593	05	37	05.580	27	32	53.17	181	0.857	zu1
1972	05	01.7748889	05	37	05.776	27	32	53.56	183	0.952	zu1
1972	05	01.7773079	05	37	06.228	27	32	53.61	178	0.905	yфш
1972	05	01.7786539	05	37	06.482	27	32	53.50	176	0.841	yфш
1972	05	01.7798044	05	37	06.676	27	32	53.70	170	0.841	yфш
1972	05	03.7596169	05	43	14.585	27	36	00.71	175	0.782	zu1
1972	05	03.7675509	05	43	16.000	27	36	01.34	178	0.806	zu1
1972	05	03.7689630	05	43	16.241	27	36	01.56	178	0.919	zu1
1972	05	03.7701852	05	43	16.461	27	36	01.18	174	0.790	zu1
1972	05	03.7748009	05	43	17.301	27	36	01.46	181	0.855	zu1
1972	05	03.7761678	05	43	17.551	27	36	02.04	181	0.903	zu1
1972	05	03.7773866	05	43	17.777	27	36	02.00	180	0.798	zu1
1972	05	03.7785718	05	43	17.988	27	36	02.06	178	0.887	zu1
1972	05	03.7811528	05	43	18.467	27	36	01.93	184	0.806	yфш
1972	05	03.7835104	05	43	18.886	27	36	01.64	180	0.726	yфш
1972	05	04.7702558	05	46	15.026	27	36	53.62	183	0.902	zu1
1972	05	04.7714294	05	46	15.221	27	36	52.96	182	0.935	zu1
1972	05	04.7767164	05	46	16.170	27	36	53.40	178	0.780	zu1
1972	05	04.7778947	05	46	16.361	27	36	53.48	177	0.780	zu1
1972	05	04.7790023	05	46	16.592	27	36	53.36	197	0.951	zu1
1972	05	04.7814236	05	46	17.015	27	36	53.85	180	0.943	yфш
1972	05	04.7826215	05	46	17.189	27	36	53.14	177	0.878	yфш
1972	05	04.7837662	05	46	17.411	27	36	54.07	182	0.984	yфш
1972	05	04.7837662	05	46	17.446	27	36	53.84	182	0.943	yфш
1972	05	04.7860208	05	46	17.785	27	36	53.90	181	1.000	yфш
1972	05	04.7871944	05	46	17.997	27	36	53.58	173	0.878	yфш
1972	05	04.7883495	05	46	18.199	27	36	53.94	179	0.959	yфш
1972	05	06.7751377	05	51	57.360	27	37	16.45	188	0.826	zu1
1972	05	06.7781644	05	51	57.874	27	37	16.49	186	0.818	zu1
1972	05	06.7829363	05	51	58.640	27	37	16.11	197	0.826	zu2
1972	05	06.7840914	05	51	58.864	27	37	16.25	198	0.983	zu2
1972	05	06.7851979	05	51	59.022	27	37	15.97	192	0.917	zu2
1972	05	07.7852164	05	54	41.498	27	36	47.11	189	1.050	zu2
1972	05	07.7874549	05	54	41.838	27	36	47.33	191	1.042	zu2
1972	05	07.7924225	05	54	42.640	27	36	46.91	192	0.975	yфш
1972	05	07.7935058	05	54	42.798	27	36	47.21	194	1.000	yфш
1972	05	07.7956736	05	54	43.164	27	36	46.31	192	0.875	yфш
1972	07	30.0144630	05	41	38.856	18	27	47.75	177	0.818	yфш
1972	07	31.0102280	05	44	13.967	18	31	32.22	172	0.803	yфш
1972	07	31.9950694	05	46	52.244	18	35	15.73	178	0.772	yфш
1972	07	31.9962454	05	46	52.441	18	35	16.14	178	0.772	yфш
1972	08	01.0088738	05	46	54.469	18	35	19.54	185	1.228	zu1
1972	08	01.0116944	05	46	54.913	18	35	20.27	201	1.602	yфш
1972	08	01.0150116	05	46	55.465	18	35	21.21	189	1.260	yфш
1972	08	01.9946782	05	49	37.748	18	39	03.23	174	1.234	yфш
1972	08	02.0020093	05	49	38.994	18	39	04.98	163	0.863	yфш
1972	08	02.0030255	05	49	39.131	18	39	05.36	163	0.935	yфш
1972	08	02.0056597	05	49	39.558	18	39	06.07	184	1.024	zu1

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1972	08	02.0076933	05	49	39.948	18	39	05.85	179 1.000 zu1
1972	08	02.0103808	05	49	40.376	18	39	07.55	185 1.129 yфш
1972	08	04.0090498	05	55	25.309	18	46	35.44	161 1.040 yфш
1972	08	04.0172847	05	55	26.775	18	46	36.94	165 1.056 yфш
1972	08	13.0200914	06	24	39.228	19	14	12.33	160 0.916 yфш
1972	08	13.0213160	06	24	39.478	19	14	12.52	155 0.855 yфш
1972	08	13.0225660	06	24	39.716	19	14	12.80	150 1.069 yфш
1972	08	13.0330185	06	24	41.892	19	14	14.70	160 1.282 yфш
1972	08	13.0340787	06	24	42.128	19	14	14.64	150 1.183 yфш
1972	08	14.0039479	06	28	07.658	19	16	13.52	166 1.321 zu1
1972	08	14.0051157	06	28	07.926	19	16	14.08	171 1.336 zu1
1972	08	14.0061632	06	28	08.150	19	16	14.08	172 1.198 zu1
1972	08	14.0085856	06	28	08.672	19	16	14.44	162 1.229 zu1
1972	08	14.0115220	06	28	09.252	19	16	14.98	184 1.756 yфш
1972	08	14.0124410	06	28	09.446	19	16	15.08	175 1.626 yфш
1972	08	14.0133438	06	28	09.648	19	16	14.42	184 1.672 yфш
1972	08	14.0149421	06	28	09.982	19	16	15.10	180 1.550 yфш
1972	08	14.0160949	06	28	10.224	19	16	15.52	181 1.603 yфш
1972	08	14.0169688	06	28	10.430	19	16	15.02	181 1.588 yфш
1972	08	18.0153565	06	42	46.957	19	21	42.16	138 0.818 yфш
1972	08	18.0180822	06	42	47.595	19	21	42.06	132 0.765 yфш
1972	08	18.0235995	06	42	48.793	19	21	42.30	131 0.932 yфш
1972	08	18.0263403	06	42	49.402	19	21	42.54	130 0.947 yфш
1972	08	18.0312153	06	42	50.503	19	21	43.29	138 0.758 zu1
1972	08	19.0186840	06	46	33.679	19	22	17.45	140 0.758 yфш
1972	08	19.0209248	06	46	34.175	19	22	17.13	140 0.833 yфш
1972	08	19.0229514	06	46	34.623	19	22	17.63	138 0.848 yфш
1972	08	19.0256389	06	46	35.201	19	22	17.56	143 0.917 zu1
1972	08	19.0269225	06	46	35.527	19	22	17.37	140 0.788 zu1
1972	08	19.0349132	06	46	37.345	19	22	18.39	136 0.856 yфш
1972	08	19.0359942	06	46	37.604	19	22	17.86	133 0.924 yфш
1972	08	19.0400741	06	46	38.497	19	22	18.33	133 0.985 yфш
1972	08	19.0408947	06	46	38.691	19	22	17.78	140 0.992 yфш
1972	08	19.0486262	06	46	40.442	19	22	18.23	132 0.833 zu1
1972	08	21.0255127	06	54	14.588	19	22	25.20	141 1.008 yфш
1972	08	21.0340046	06	54	16.563	19	22	25.55	141 1.060 yфш
1972	08	21.0392512	06	54	17.759	19	22	25.53	131 1.000 zu1
1972	08	21.0404213	06	54	18.034	19	22	25.74	137 1.105 zu1
1972	08	22.0048889	06	58	03.000	19	21	57.87	126 0.955 yфш
1972	08	22.0074502	06	58	03.585	19	21	57.67	132 1.038 yфш
1972	08	22.0099502	06	58	04.158	19	21	57.46	145 1.045 yфш
1972	08	22.0165023	06	58	05.745	19	21	57.43	137 0.955 yфш
1972	08	22.0209329	06	58	06.708	19	21	57.73	151 1.152 yфш
1972	08	22.0248796	06	58	07.636	19	21	57.03	132 1.174 zu1
1972	08	22.0300313	06	58	08.867	19	21	57.63	138 1.212 zu1
1972	08	22.0434549	06	58	12.001	19	21	57.25	142 1.114 yфш
1972	08	22.0467986	06	58	12.764	19	21	56.45	144 1.227 yфш
1972	08	22.0478808	06	58	13.088	19	21	56.60	135 1.000 yфш
1972	08	23.0358194	07	02	05.755	19	21	06.11	129 0.872 yфш
1972	08	23.0379641	07	02	06.251	19	21	05.85	130 0.872 yфш
1972	08	23.0390023	07	02	06.495	19	21	05.89	134 0.887 yфш
1972	08	23.0412014	07	02	06.976	19	21	06.24	138 0.977 yфш

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1972	08	23.0442917	07	02	07.727	19	21	06.09	138	0.962 zu1
1972	08	23.0464190	07	02	08.177	19	21	05.61	130	0.977 zu1
1972	08	23.0473924	07	02	08.439	19	21	06.13	143	1.053 zu1
1972	08	23.0494861	07	02	08.951	19	21	05.59	136	1.015 yфш
1972	08	23.0504213	07	02	09.161	19	21	06.13	132	0.977 yфш
1972	08	23.0523090	07	02	09.590	19	21	05.25	140	1.128 yфш
1972	08	23.0544259	07	02	10.121	19	21	05.56	137	0.977 zu1
1972	08	24.0239039	07	06	00.515	19	19	53.09	136	1.038 yфш
1972	08	24.0256273	07	06	00.915	19	19	52.75	132	0.940 yфш
1972	08	24.0295451	07	06	01.884	19	19	52.08	136	1.105 yфш
1972	08	29.0080231	07	26	13.910	19	07	39.96	121	1.000 yфш
1972	08	29.0108634	07	26	14.648	19	07	39.76	119	0.925 yфш
1972	08	29.0117882	07	26	14.848	19	07	39.52	130	1.008 yфш
1972	08	29.0134236	07	26	15.292	19	07	38.42	120	0.842 yфш
1972	08	29.0198912	07	26	16.867	19	07	37.60	123	0.985 zu1
1972	08	29.0219259	07	26	17.370	19	07	36.92	133	1.008 zu1
1972	08	29.0229363	07	26	17.626	19	07	37.12	131	1.045 zu1
1972	08	29.0251296	07	26	18.143	19	07	36.84	130	0.977 zu1
1972	08	29.0312245	07	26	19.666	19	07	36.00	121	1.023 yфш
1972	08	29.0330023	07	26	20.078	19	07	34.76	138	1.195 yфш
1972	08	29.0340405	07	26	20.344	19	07	34.57	136	1.240 yфш
1972	08	29.0368345	07	26	21.067	19	07	33.78	134	1.203 yфш
1972	08	29.0377315	07	26	21.268	19	07	34.38	132	1.128 yфш
1972	08	29.0507315	07	26	24.485	19	07	31.27	140	1.226 zu1
1972	08	29.0528600	07	26	25.018	19	07	31.28	135	1.233 zu1
1972	08	30.0144630	07	30	24.229	19	03	53.86	126	1.008 yфш
1972	08	30.0154074	07	30	24.469	19	03	53.80	126	0.985 yфш
1972	08	30.0181539	07	30	25.159	19	03	53.30	127	1.038 yфш
1972	08	30.0229560	07	30	26.349	19	03	52.42	121	0.910 zu1
1972	08	30.0239988	07	30	26.622	19	03	51.90	121	0.895 zu1
1972	08	30.0250509	07	30	26.887	19	03	51.66	120	0.940 zu1
1972	08	30.0261678	07	30	27.139	19	03	51.80	120	0.962 zu1
1972	08	30.0284097	07	30	27.725	19	03	50.84	119	0.902 zu1
1972	08	30.0319572	07	30	28.603	19	03	50.32	114	0.947 yфш
1972	08	30.0338148	07	30	29.088	19	03	49.38	115	0.917 yфш
1972	08	30.0347975	07	30	29.316	19	03	49.41	117	0.985 yфш
1972	08	30.0365972	07	30	29.778	19	03	49.49	120	0.940 yфш
1972	08	30.0375220	07	30	29.967	19	03	48.67	125	1.053 yфш
1972	08	31.0239734	07	34	36.961	18	59	40.69	112	0.759 yфш
1972	08	31.0248449	07	34	37.137	18	59	40.24	112	0.835 yфш
1972	08	31.0275000	07	34	37.805	18	59	39.58	109	0.827 yфш
1972	08	31.0345220	07	34	39.546	18	59	38.36	114	0.752 zu1
1972	08	31.0355637	07	34	39.811	18	59	37.47	118	0.774 zu1
1972	08	31.0365301	07	34	40.091	18	59	37.90	108	0.774 zu1
1972	08	31.0376377	07	34	40.355	18	59	37.64	115	0.774 zu1
1972	08	31.0439630	07	34	41.972	18	59	35.80	100	0.797 yфш
1972	08	31.0466389	07	34	42.627	18	59	34.76	115	0.917 yфш
1972	08	31.0483090	07	34	42.997	18	59	34.44	120	0.992 yфш
1972	08	31.0492639	07	34	43.300	18	59	34.28	114	0.857 yфш
1972	09	02.0200347	07	43	00.871	18	49	57.38	141	1.341 yфш
1972	09	02.0219931	07	43	01.355	18	49	56.76	132	1.288 yфш
1972	09	02.0254144	07	43	02.238	18	49	56.16	140	1.348 yфш

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1972	09	02.0288322	07	43	03.093	18	49	54.96	140	1.447	yфш
1972	09	02.0337338	07	43	04.321	18	49	52.90	135	1.318	zu1
1972	09	02.0347454	07	43	04.597	18	49	52.74	128	1.205	zu1
1972	09	02.0357870	07	43	04.853	18	49	52.47	135	1.280	zu1
1972	09	02.0381400	07	43	05.439	18	49	51.30	136	1.356	zu1
1972	09	02.0394109	07	43	05.757	18	49	51.88	134	1.333	zu1
1972	09	02.0404699	07	43	06.025	18	49	51.42	146	1.447	zu1
1972	09	02.0442384	07	43	06.966	18	49	50.15	145	1.545	yфш
1972	09	02.0478970	07	43	07.917	18	49	48.39	142	1.439	yфш
1972	09	02.0494421	07	43	08.294	18	49	48.72	148	1.568	yфш
1972	09	02.0512037	07	43	08.753	18	49	47.20	140	1.348	yфш
1972	09	02.0520556	07	43	08.975	18	49	47.00	143	1.455	yфш
1972	09	02.0553588	07	43	09.789	18	49	46.66	140	1.295	zu1
1972	09	02.0575012	07	43	10.397	18	49	45.69	127	1.076	zu1
1972	09	02.0584572	07	43	10.577	18	49	44.95	134	1.227	zu1
1972	09	03.0070359	07	47	12.022	18	44	28.08	131	1.136	yфш
1972	09	03.0119537	07	47	13.280	18	44	25.83	126	1.015	yфш
1972	09	03.0157130	07	47	14.287	18	44	24.87	131	1.144	zu1
1972	09	03.0170671	07	47	14.588	18	44	24.56	141	1.227	zu1
1972	09	03.0192060	07	47	15.154	18	44	23.97	126	1.114	zu1
1972	09	03.0222720	07	47	15.908	18	44	22.18	140	1.250	zu1
1972	09	03.0488322	07	47	22.748	18	44	14.11	115	0.864	yфш
1972	09	03.0501053	07	47	23.000	18	44	13.64	123	1.015	yфш
1972	09	03.0523414	07	47	23.582	18	44	11.78	123	1.061	yфш
1972	09	03.0558380	07	47	24.490	18	44	11.94	115	1.030	zu1
1972	09	03.0567141	07	47	24.706	18	44	11.60	125	0.970	zu1
1972	09	03.0575764	07	47	24.938	18	44	11.28	126	1.053	zu1
1972	09	03.0584259	07	47	25.168	18	44	11.02	137	1.235	zu1
1972	09	04.0333773	07	51	34.510	18	38	16.96	124	1.136	yфш
1972	09	04.0443796	07	51	37.320	18	38	12.26	120	1.023	yфш
1972	09	04.0505868	07	51	38.915	18	38	10.68	133	1.083	zu1
1972	09	04.0515428	07	51	39.198	18	38	10.58	125	1.023	zu1
1972	09	04.0532546	07	51	39.586	18	38	09.88	125	1.015	zu1
1972	09	04.0566875	07	51	40.494	18	38	08.88	120	0.985	yфш
1972	09	04.0598472	07	51	41.328	18	38	06.83	125	0.924	yфш
1972	09	04.0605417	07	51	41.453	18	38	07.14	132	1.205	yфш
1972	09	04.0640625	07	51	42.353	18	38	05.32	126	1.091	yфш
1972	09	04.0650104	07	51	42.649	18	38	05.86	125	1.076	yфш
1972	09	04.0661285	07	51	42.880	18	38	05.49	141	1.144	yфш
1972	09	05.0122917	07	55	46.002	18	31	54.16	128	1.288	yфш
1972	09	05.0136748	07	55	46.324	18	31	53.79	120	1.045	yфш
1972	09	05.0149931	07	55	46.682	18	31	53.07	125	1.136	yфш
1972	09	05.0223090	07	55	48.587	18	31	50.98	131	1.250	yфш
1972	09	05.0231227	07	55	48.768	18	31	50.22	130	1.227	yфш
1972	09	05.0263299	07	55	49.634	18	31	48.73	120	1.098	zu1
1972	09	05.0282222	07	55	50.094	18	31	48.07	120	1.091	zu1
1972	09	05.0291412	07	55	50.331	18	31	48.53	124	1.045	zu1
1972	09	05.0310000	07	55	50.842	18	31	48.05	123	1.045	zu1
1972	09	05.0498565	07	55	55.677	18	31	40.37	120	1.121	yфш
1972	09	05.0507292	07	55	55.918	18	31	39.63	125	1.076	yфш
1972	09	05.0513935	07	55	56.076	18	31	39.21	113	0.962	yфш
1972	09	05.0526435	07	55	56.416	18	31	39.35	125	1.023	yфш

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1972	09	05.0534988	07	55	56.612	18	31	38.43	126	1.107	yфш
1972	09	05.0557801	07	55	57.200	18	31	37.97	125	1.076	yфш
1972	09	05.0581169	07	55	57.790	18	31	36.96	130	0.970	zu1
1972	09	05.0590405	07	55	58.023	18	31	36.17	136	1.076	zu1
1972	09	05.0609398	07	55	58.503	18	31	35.83	134	1.068	zu1
1972	09	05.0618750	07	55	58.770	18	31	35.89	130	1.030	zu1
1972	09	06.0629618	08	00	17.045	18	24	35.13	119	1.136	yфш
1972	09	06.0637419	08	00	17.277	18	24	34.88	120	1.030	yфш
1972	09	06.0644838	08	00	17.488	18	24	34.09	118	1.076	yфш
1972	09	06.0682894	08	00	18.455	18	24	32.64	120	1.030	zu1
1972	09	06.0692002	08	00	18.685	18	24	32.45	116	0.894	zu1
1972	09	06.0702801	08	00	18.977	18	24	31.64	120	1.023	zu1
1972	09	06.0729201	08	00	19.633	18	24	30.60	122	1.053	zu1
1972	09	06.0738333	08	00	19.871	18	24	30.85	130	0.939	zu1
1972	09	06.0794132	08	00	21.293	18	24	28.43	124	1.076	yфш
1972	09	07.0217257	08	04	25.447	18	17	25.85	119	1.106	yфш
1972	09	07.0303403	08	04	27.633	18	17	21.95	125	1.152	zu1
1972	09	07.0313947	08	04	27.926	18	17	21.26	119	1.068	zu1
1972	09	07.0334340	08	04	28.485	18	17	20.97	126	1.091	zu1
1972	09	07.0344502	08	04	28.728	18	17	19.87	126	1.121	zu1
1972	09	07.0356285	08	04	29.037	18	17	19.35	125	1.083	zu1
1972	09	07.0366250	08	04	29.291	18	17	18.54	120	1.030	zu1
1972	09	07.0387199	08	04	29.791	18	17	17.93	121	1.076	zu1
1972	09	07.0396215	08	04	30.045	18	17	17.49	125	1.091	zu1
1972	09	07.0472303	08	04	32.007	18	17	14.03	126	1.197	yфш
1972	09	07.0481574	08	04	32.268	18	17	13.32	119	1.061	yфш
1972	09	07.0522928	08	04	33.340	18	17	11.85	125	1.174	yфш
1972	09	07.0539051	08	04	33.811	18	17	11.58	125	1.107	yфш
1972	09	07.0546898	08	04	33.973	18	17	10.55	123	1.083	yфш
1972	09	07.0592199	08	04	35.112	18	17	08.93	127	1.152	zu1
1972	09	07.0614896	08	04	35.721	18	17	08.13	132	1.174	zu1
1972	09	07.0625903	08	04	36.003	18	17	07.07	120	1.098	zu1
1972	09	07.0637188	08	04	36.303	18	17	06.72	125	1.220	zu1
1972	09	07.0647812	08	04	36.593	18	17	05.95	119	1.121	zu1
1972	09	12.0495440	08	26	20.708	17	32	42.30	80	0.687	yфш
1972	09	12.0505660	08	26	20.990	17	32	41.74	104	0.802	yфш
1972	09	12.0515996	08	26	21.230	17	32	41.45	103	0.763	yфш
1972	09	12.0709696	08	26	26.309	17	32	29.66	105	0.763	yфш
1972	09	12.0727566	08	26	26.792	17	32	28.31	104	0.931	yфш
1972	09	12.0736496	08	26	27.009	17	32	27.79	103	0.901	yфш
1972	09	12.0744836	08	26	27.213	17	32	27.50	112	0.992	yфш
1972	09	12.0764646	08	26	27.730	17	32	26.34	109	0.863	yфш
1972	09	12.0772756	08	26	27.944	17	32	25.80	112	0.977	yфш
1972	09	12.0781956	08	26	28.218	17	32	25.01	108	0.847	yфш
1972	09	20.0516493	09	01	44.872	15	56	30.16	126	1.223	yфш
1972	09	20.0532870	09	01	45.335	15	56	28.53	126	1.338	yфш
1972	09	20.0540856	09	01	45.529	15	56	28.59	126	1.400	yфш
1972	09	20.0587731	09	01	46.810	15	56	23.94	115	1.269	yфш
1972	09	20.0596354	09	01	47.024	15	56	23.44	118	1.277	yфш
1972	09	20.0605208	09	01	47.234	15	56	22.90	126	1.415	yфш
1972	09	20.0615625	09	01	47.529	15	56	21.72	122	1.408	yфш
1972	09	20.0622975	09	01	47.724	15	56	21.32	105	1.031	yфш

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1972	09	20.0738831	09	01	50.811	15	56	11.52	126	1.431 yфш
1972	09	20.0770023	09	01	51.634	15	56	09.24	124	1.354 yфш
1972	09	20.0794329	09	01	52.306	15	56	07.00	119	1.308 yфш
1972	09	30.0779502	09	46	30.818	13	14	08.85	85	0.875 yфш
1972	09	30.0802662	09	46	31.430	13	14	06.49	91	0.984 yфш
1972	09	30.0815289	09	46	31.786	13	14	05.03	86	0.875 yфш
1972	09	30.0857188	09	46	32.894	13	14	00.79	95	0.930 yфш
1972	09	30.0871898	09	46	33.311	13	13	58.65	95	0.938 yфш
1972	09	30.0897269	09	46	33.986	13	13	56.03	97	0.930 yфш
1972	10	07.0528218	10	17	40.913	10	56	18.80	102	1.362 yфш
1972	10	07.0546539	10	17	41.410	10	56	16.34	108	1.504 yфш
1972	10	07.0555359	10	17	41.637	10	56	14.98	114	1.488 yфш
1972	10	07.0572153	10	17	42.096	10	56	13.36	114	1.457 yфш
1972	10	07.0579769	10	17	42.280	10	56	11.74	119	1.488 yфш
1972	10	07.0635822	10	17	43.792	10	56	04.75	108	1.496 yфш
1972	10	07.0656655	10	17	44.334	10	56	01.94	119	1.685 yфш
1972	10	07.0665648	10	17	44.590	10	56	01.10	120	1.543 yфш
1972	10	07.0683056	10	17	45.048	10	55	59.24	126	1.638 yфш
1972	10	07.0690856	10	17	45.244	10	55	58.22	130	1.701 yфш
1972	10	07.0709606	10	17	45.778	10	55	56.20	126	1.764 yфш
1972	10	07.0717662	10	17	45.971	10	55	54.28	118	1.622 yфш
1972	10	07.0799815	10	17	48.188	10	55	44.41	100	1.150 zu1
1972	10	07.0862813	10	17	49.833	10	55	36.62	95	1.220 zu1
1972	10	07.0885949	10	17	50.484	10	55	32.86	106	1.283 zu1
1972	10	07.0949618	10	17	52.207	10	55	25.62	111	1.291 zu1
1972	10	07.0970440	10	17	52.775	10	55	22.24	101	1.228 zu1
1972	10	07.0980532	10	17	52.992	10	55	21.08	108	1.323 zu1
1972	10	07.1001076	10	17	53.572	10	55	18.99	108	1.228 zu1
1972	10	07.1011273	10	17	53.866	10	55	18.12	108	1.276 zu1
1972	10	07.1042894	10	17	54.652	10	55	13.93	118	1.512 yфш
1972	10	07.1050741	10	17	54.874	10	55	12.90	119	1.528 yфш
1972	10	07.1060289	10	17	55.151	10	55	10.90	115	1.504 yфш
1972	10	07.1068750	10	17	55.348	10	55	10.52	118	1.551 yфш
1972	10	09.0559850	10	26	37.160	10	13	22.50	110	1.460 yфш
1972	10	09.0578079	10	26	37.684	10	13	20.42	108	1.381 yфш
1972	10	09.0610451	10	26	38.520	10	13	16.24	112	1.452 yфш
1972	10	09.1086053	10	26	51.254	10	12	13.99	97	1.349 zu1
1972	10	09.1096123	10	26	51.525	10	12	12.99	112	1.212 zu1
1972	10	09.1127465	10	26	52.352	10	12	09.44	111	1.373 yфш
1972	10	09.1134896	10	26	52.528	10	12	08.42	114	1.452 yфш
1972	10	09.1143160	10	26	52.778	10	12	07.12	107	1.381 yфш
1972	10	09.1159873	10	26	53.210	10	12	04.50	113	1.405 yфш
1972	10	09.1167928	10	26	53.422	10	12	04.00	109	1.405 yфш
1972	10	12.0540752	10	39	58.851	9	06	36.29	108	1.349 yфш
1972	10	12.0548704	10	39	59.127	9	06	35.20	96	1.206 yфш
1972	10	12.0578113	10	39	59.927	9	06	30.92	98	1.151 yфш
1972	10	12.0594317	10	40	00.323	9	06	28.28	108	1.270 yфш
1972	10	12.0609363	10	40	00.717	9	06	26.54	104	1.294 yфш
1972	10	12.0616921	10	40	00.969	9	06	25.60	95	1.088 yфш
1972	10	12.0665914	10	40	02.239	9	06	19.30	98	1.349 zu1
1972	10	12.0675174	10	40	02.487	9	06	18.08	104	1.349 zu1
1972	10	12.0722685	10	40	03.733	9	06	12.00	99	1.262 zu1

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1972	10	12.0748102	10	40	04.439	9	06	07.55	107	1.302 zu1
1972	10	12.0756146	10	40	04.678	9	06	06.56	105	1.254 zu1
1972	10	12.0773264	10	40	05.102	9	06	04.20	106	1.317 zu1
1972	10	12.0805127	10	40	05.937	9	06	00.54	100	1.389 zu1
1972	10	12.0828704	10	40	06.581	9	05	57.07	106	1.349 zu1
1972	10	12.0893449	10	40	08.317	9	05	48.19	98	1.135 yфш
1972	10	12.0913426	10	40	08.805	9	05	45.80	111	1.556 yфш
1972	10	12.0921204	10	40	09.016	9	05	44.64	110	1.381 yфш
1972	10	12.0982407	10	40	10.634	9	05	35.88	118	1.595 yфш
1972	10	22.1222882	11	24	44.449	5	03	19.63	85	1.073 yфш
1972	10	22.1232060	11	24	44.727	5	03	18.32	97	1.226 yфш
1972	10	22.1260093	11	24	45.485	5	03	14.29	105	1.258 yфш
1972	10	22.1274537	11	24	45.833	5	03	11.84	99	1.315 yфш
1972	10	22.1284225	11	24	46.110	5	03	10.13	96	1.202 yфш
1972	10	22.1302477	11	24	46.555	5	03	07.27	105	1.371 yфш
1972	10	22.1310139	11	24	46.793	5	03	06.26	99	1.274 yфш
1972	10	22.1319190	11	24	46.993	5	03	04.77	96	1.323 yфш
1972	10	28.0862465	11	51	14.626	2	28	23.26	106	1.561 yфш
1972	10	28.0871956	11	51	14.885	2	28	21.98	108	1.675 yфш
1972	10	28.0887882	11	51	15.294	2	28	19.36	114	1.593 yфш
1972	10	28.0897118	11	51	15.548	2	28	17.97	110	1.602 yфш
1972	10	28.0929919	11	51	16.408	2	28	12.72	110	1.593 yфш
1972	10	28.0967326	11	51	17.446	2	28	07.34	91	1.236 zu1
1972	10	28.1002095	11	51	18.357	2	28	01.54	95	1.382 zu1
1972	10	28.1013356	11	51	18.674	2	27	59.90	114	1.463 zu1
1972	10	28.1049931	11	51	19.619	2	27	53.94	120	1.699 yфш
1972	10	28.1085012	11	51	20.512	2	27	48.25	119	1.805 yфш
1972	10	28.1100961	11	51	20.958	2	27	46.11	122	1.797 yфш
1972	10	28.1107176	11	51	21.102	2	27	45.50	120	1.707 yфш
1972	10	28.1297824	11	51	26.190	2	27	14.66	121	1.797 yфш
1972	10	28.1318750	11	51	26.741	2	27	12.16	125	1.691 yфш
1972	10	28.1335914	11	51	27.192	2	27	08.66	121	1.715 yфш
1972	10	28.1343090	11	51	27.411	2	27	07.08	111	1.593 yфш
1972	11	04.1076933	12	22	33.081	0	40	29.39	94	1.344 yфш
1972	11	04.1092384	12	22	33.459	0	40	32.06	98	1.525 yфш
1972	11	04.1106424	12	22	33.847	0	40	34.70	100	1.393 yфш
1972	11	04.1124039	12	22	34.329	0	40	37.26	102	1.500 yфш
1972	11	04.1138993	12	22	34.736	0	40	39.83	94	1.311 yфш
1972	11	04.1159120	12	22	35.249	0	40	43.27	102	1.574 yфш
1972	11	04.1176620	12	22	35.697	0	40	45.84	111	1.590 yфш
1972	11	04.1287569	12	22	38.707	0	41	03.94	97	1.238 zu1
1972	11	04.1297951	12	22	38.975	0	41	05.02	95	1.230 zu1
1975	03	15.6940718	01	33	50.320	9	33	00.36	103	1.488 zu1
1975	03	15.6951343	01	33	50.620	9	33	02.58	101	1.436 zu1
1975	03	15.6961285	01	33	50.876	9	33	03.63	95	1.427 zu1
1975	03	15.6985741	01	33	51.554	9	33	08.46	99	1.504 zu1
1975	03	15.6995660	01	33	51.810	9	33	09.85	95	1.521 zu1
1975	03	15.7005544	01	33	52.092	9	33	12.12	96	1.496 zu1
1975	03	15.7027326	01	33	52.676	9	33	15.69	103	1.641 zu1
1975	03	15.7037697	01	33	52.970	9	33	17.21	97	1.470 zu1
1975	03	15.7048796	01	33	53.236	9	33	19.14	102	1.530 zu1
1975	03	19.7047234	01	52	04.392	11	29	02.58	103	1.573 zu1

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1975	03	19.7059653	01	52	04.692	11	29	04.58	102	1.573	zu1
1975	04	02.7182581	02	57	17.158	17	35	52.29	97	1.328	zu1
1975	04	02.7192512	02	57	17.445	17	35	53.93	97	1.319	zu1
1975	04	02.7202442	02	57	17.709	17	35	54.69	99	1.445	zu1
1975	04	02.7211921	02	57	17.987	17	35	56.20	95	1.403	zu1
1975	04	02.7240984	02	57	18.813	17	36	00.32	87	1.277	zu1
1975	04	02.7250949	02	57	19.120	17	36	01.34	94	1.345	zu1
1975	04	02.7261134	02	57	19.384	17	36	03.17	99	1.445	zu1
1975	04	02.7281146	02	57	19.987	17	36	06.53	91	1.310	zu1
1975	04	02.7290868	02	57	20.255	17	36	07.36	90	1.294	zu1
1975	04	09.7242917	03	30	57.007	20	09	28.38	89	1.325	zu1
1975	04	09.7253750	03	30	57.337	20	09	29.91	86	1.183	zu1
1975	04	09.7265880	03	30	57.666	20	09	31.59	80	1.325	zu1
1975	04	09.7278218	03	30	58.046	20	09	32.94	88	1.116	zu1
1975	04	23.7399126	04	40	19.321	23	58	19.18	91	1.144	zu1
1975	04	23.7562802	04	40	24.261	23	58	30.89	88	1.136	zu1
1975	04	23.7600584	04	40	25.404	23	58	34.17	84	0.997	zu1
1975	04	23.7610796	04	40	25.694	23	58	34.53	78	0.809	zu1
1975	04	25.7728035	04	50	32.798	24	21	40.76	86	0.994	fu2
1975	04	25.7738207	04	50	33.112	24	21	41.11	86	1.125	fu2
1975	04	25.7758269	04	50	33.734	24	21	42.35	85	0.953	fu2
1975	04	25.7769446	04	50	34.056	24	21	43.05	88	1.222	fu2
1975	04	28.7451412	05	05	32.316	24	51	01.27	91	1.103	du2
1975	04	28.7461551	05	05	32.566	24	51	01.54	86	0.965	du2
1975	04	28.7506591	05	05	33.958	24	51	04.09	89	1.054	fu2
1975	04	28.7533581	05	05	34.786	24	51	05.88	88	1.160	fu2
1975	04	28.7543706	05	05	35.074	24	51	06.50	83	0.925	fu2
1975	04	28.7563858	05	05	35.695	24	51	07.52	95	1.135	fu2
1975	04	28.7573694	05	05	35.961	24	51	07.73	82	0.868	fu2
1975	04	28.7597962	05	05	36.647	24	51	08.79	74	0.584	fu3
1975	04	28.7617852	05	05	37.251	24	51	10.25	75	0.649	fu3
1975	04	28.7628020	05	05	37.582	24	51	10.18	77	0.681	fu3
1975	04	28.7648361	05	05	38.189	24	51	12.25	79	0.730	fu3
1975	04	28.7658664	05	05	38.472	24	51	12.15	75	0.560	fu3
1975	04	29.7526595	05	10	37.547	24	59	38.69	78	0.753	du3
1975	04	29.7537500	05	10	37.922	24	59	39.67	84	0.907	du3
1975	04	29.7548771	05	10	38.220	24	59	40.22	78	0.810	du3
1975	04	29.7569525	05	10	38.869	24	59	40.78	76	0.681	du3
1975	04	29.7595396	05	10	39.706	24	59	42.55	95	1.102	fu2
1975	04	29.7605994	05	10	40.010	24	59	43.43	86	0.988	fu2
1975	04	29.7626546	05	10	40.654	24	59	44.07	88	1.134	fu2
1975	04	29.7637078	05	10	40.944	24	59	44.63	93	1.150	fu2
1975	04	29.7660972	05	10	41.728	24	59	45.83	106	1.361	zu1
1975	04	29.7670850	05	10	41.980	24	59	45.97	93	1.134	zu1
1975	04	29.7680822	05	10	42.348	24	59	46.33	103	1.337	zu1
1975	04	29.7691212	05	10	42.618	24	59	47.42	105	1.240	zu1
1975	10	16.0664572	10	35	59.278	6	47	27.61	171	0.856	fu2
1975	10	16.0735498	10	36	00.547	6	47	23.75	178	0.911	du2
1975	10	16.0756759	10	36	00.923	6	47	22.51	190	1.048	du2
1975	10	16.0817211	10	36	02.060	6	47	19.41	180	1.108	zu1
1975	10	16.0848310	10	36	02.613	6	47	17.35	184	1.124	zu1
1975	10	16.0858507	10	36	02.775	6	47	16.90	183	1.002	zu1

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1975	10	16.0868924	10	36	02.951	6	47	16.83	186	1.017	zu1		
1975	10	16.0926817	10	36	04.043	6	47	13.63	197	1.458	du2		
1975	10	16.1027500	10	36	05.885	6	47	08.37	186	1.108	zu1		
1975	10	16.1039514	10	36	06.079	6	47	07.49	178	1.002	zu1		
1975	10	16.1049502	10	36	06.266	6	47	06.61	193	1.169	zu1		
1975	10	16.1138160	10	36	07.873	6	47	01.95	189	1.154	zu1		
1975	10	16.1150150	10	36	08.105	6	47	02.06	192	1.093	zu1		
1975	10	16.1160764	10	36	08.295	6	47	01.36	175	1.002	zu1		
1975	10	16.1171204	10	36	08.473	6	47	00.71	191	1.017	zu1		
1975	10	16.1181609	10	36	08.641	6	46	59.65	191	1.101	zu1		
1975	10	16.1192222	10	36	08.844	6	46	59.61	198	1.154	zu1		
1975	10	16.1202546	10	36	09.058	6	46	58.71	176	0.790	zu1		
1975	10	16.1226134	10	36	09.479	6	46	58.05	177	0.888	du3		
1975	10	23.0766204	10	58	38.308	5	32	02.44	170	0.989	zu1		
1975	10	23.0778032	10	58	38.532	5	32	01.26	168	1.085	zu1		
1975	10	23.0789606	10	58	38.794	5	32	00.72	170	0.974	zu1		
1975	10	23.0992303	10	58	42.888	5	31	45.42	185	1.284	zu1		
1975	10	23.1004225	10	58	43.104	5	31	45.02	178	1.239	zu1		
1975	10	23.1016516	10	58	43.330	5	31	43.84	185	1.232	zu1		
1975	10	23.1025475	10	58	43.533	5	31	42.94	178	1.092	zu1		
1975	10	23.1037778	10	58	43.790	5	31	42.55	180	1.225	zu1		
1975	10	23.1046944	10	58	43.972	5	31	41.52	170	1.033	zu1		
1975	10	23.1056157	10	58	44.140	5	31	40.90	182	1.239	zu1		
1975	10	23.1194919	10	58	46.970	5	31	30.22	170	1.077	zu1		
1975	10	23.1203194	10	58	47.102	5	31	30.24	189	1.136	zu1		
1975	10	23.1214097	10	58	47.349	5	31	28.46	170	1.121	zu1		
1975	10	23.1230498	10	58	47.671	5	31	27.59	170	1.180	du2		
1975	10	23.1239884	10	58	47.839	5	31	27.42	170	1.033	du2		
1975	10	29.0728193	11	19	36.013	4	07	23.86	150	1.032	zu1		
1975	10	29.0750609	11	19	36.519	4	07	21.52	150	1.025	zu1		
1975	10	29.0773507	11	19	37.014	4	07	19.80	165	1.164	zu1		
1975	10	29.0783322	11	19	37.231	4	07	18.60	152	1.083	zu1		
1975	10	29.0823241	11	19	38.063	4	07	15.69	175	1.134	zu1		
1975	10	29.0841296	11	19	38.443	4	07	13.32	156	1.083	zu1		
1975	10	29.0850995	11	19	38.711	4	07	12.36	156	1.054	zu1		
1975	10	29.0861250	11	19	38.875	4	07	11.73	168	1.200	zu1		
1975	10	29.0891157	11	19	39.519	4	07	09.53	160	1.068	zu1		
1975	10	29.0977940	11	19	41.385	4	07	01.08	167	1.142	zu1		
1975	10	29.0988148	11	19	41.607	4	07	00.20	168	1.142	zu1		
1975	10	29.0998241	11	19	41.803	4	06	59.29	160	1.046	zu1		
1975	10	29.1008194	11	19	42.019	4	06	57.52	172	1.171	zu1		
1975	10	29.1017940	11	19	42.255	4	06	57.37	172	1.193	zu1		
1975	10	29.1027697	11	19	42.447	4	06	56.51	168	1.171	zu1		
1975	10	29.1037535	11	19	42.631	4	06	55.35	173	1.200	zu1		
1975	10	29.1089919	11	19	43.762	4	06	50.46	165	1.025	zu1		
1975	10	29.1100556	11	19	44.009	4	06	49.60	170	1.054	zu1		
1975	10	29.1110567	11	19	44.207	4	06	48.94	160	0.929	zu1		
1975	10	29.1119769	11	19	44.415	4	06	47.83	165	0.981	zu1		
1975	10	29.1144502	11	19	44.977	4	06	45.04	163	1.032	zu1		
1975	10	29.1154132	11	19	45.161	4	06	44.59	160	0.922	zu1		
1975	10	29.1171852	11	19	45.544	4	06	42.48	165	1.010	zu1		
1975	10	29.1184375	11	19	45.823	4	06	41.42	157	0.966	zu1		

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1975	10	29.1193449	11	19	46.015	4	06	40.18	165	1.025	zu1		
1975	10	31.0861285	11	26	54.098	3	35	17.39	140	0.804	zu1		
1975	10	31.0873843	11	26	54.361	3	35	16.45	154	0.907	zu1		
1975	11	01.0672257	11	30	30.140	3	19	00.45	148	1.015	zu1		
1975	11	01.0693727	11	30	30.599	3	18	58.49	151	1.022	zu1		
1975	11	01.0714097	11	30	31.017	3	18	56.63	153	1.110	zu1		
1975	11	01.0724190	11	30	31.282	3	18	55.39	151	1.168	zu1		
1975	11	01.0734398	11	30	31.500	3	18	55.23	150	1.110	zu1		
1975	11	01.0744444	11	30	31.726	3	18	53.45	150	0.949	zu1		
1975	11	01.0754688	11	30	31.958	3	18	52.73	146	1.008	zu1		
1975	11	01.0764352	11	30	32.120	3	18	51.75	148	1.059	zu1		
1975	11	01.0794398	11	30	32.814	3	18	48.75	134	0.642	du3		
1975	11	01.0805150	11	30	33.045	3	18	48.49	140	0.701	du3		
1975	11	01.0817998	11	30	33.341	3	18	46.24	135	0.657	du3		
1975	11	01.0830370	11	30	33.617	3	18	45.89	145	0.976	du3		
1975	11	01.0844063	11	30	33.917	3	18	43.67	135	0.672	du3		
1975	11	01.0857257	11	30	34.165	3	18	43.27	140	0.832	du3		
1975	11	01.0869711	11	30	34.456	3	18	41.11	141	0.745	du3		
1975	11	01.0882037	11	30	34.748	3	18	40.55	140	0.803	du3		
1975	11	01.0893044	11	30	34.992	3	18	39.05	134	0.759	du3		
1975	11	01.0993171	11	30	37.151	3	18	29.28	150	1.110	zu1		
1975	11	01.1005162	11	30	37.450	3	18	27.57	150	1.066	zu1		
1975	11	01.1014433	11	30	37.629	3	18	27.23	151	1.037	zu1		
1975	11	01.1027037	11	30	37.911	3	18	25.42	157	1.197	zu1		
1975	11	01.1038171	11	30	38.160	3	18	24.29	158	1.124	zu1		
1975	11	01.1049259	11	30	38.393	3	18	23.33	150	0.993	zu1		
1975	11	01.1060162	11	30	38.656	3	18	21.97	158	1.212	zu1		
1975	11	01.1070556	11	30	38.878	3	18	21.17	161	1.110	zu1		
1975	11	01.1088843	11	30	39.292	3	18	18.91	155	1.081	zu1		
1975	11	01.1099306	11	30	39.486	3	18	18.48	161	1.095	zu1		
1975	11	12.0998333	12	12	34.565	0	07	46.52	140	1.289	zu1		
1975	11	12.1010475	12	12	34.847	0	07	48.13	146	1.289	zu1		
1975	11	12.1021933	12	12	35.125	0	07	49.62	130	0.886	zu1		
1975	11	12.1032778	12	12	35.363	0	07	50.58	144	1.113	zu1		
1975	11	12.1043715	12	12	35.624	0	07	51.80	142	1.143	zu1		
1975	11	12.1054514	12	12	35.851	0	07	53.90	143	1.231	zu1		
1975	11	12.1064965	12	12	36.119	0	07	55.24	147	1.099	zu1		
1975	11	12.1075602	12	12	36.348	0	07	56.12	145	1.231	zu1		
1975	11	12.1097731	12	12	36.877	0	07	59.09	133	1.113	zu1		
1975	11	12.1107951	12	12	37.087	0	08	00.63	124	1.040	zu1		
1975	11	15.1007025	12	24	27.504	-1	10	17.15	136	1.247	zu1		
1975	11	15.1015347	12	24	27.686	-1	10	18.17	142	1.189	zu1		
1975	11	15.1024155	12	24	27.882	-1	10	18.89	147	1.313	zu1		
1975	11	15.1033611	12	24	28.129	-1	10	20.56	146	1.277	zu1		
1975	11	15.1042789	12	24	28.332	-1	10	21.93	143	1.233	zu1		
1975	11	15.1052269	12	24	28.578	-1	10	22.51	146	1.350	zu1		
1975	11	15.1063368	12	24	28.846	-1	10	23.74	136	1.174	zu1		
1975	11	15.1100822	12	24	29.740	-1	10	28.93	142	1.218	zu1		
1975	11	15.1108854	12	24	29.931	-1	10	30.27	130	1.071	zu1		
1975	11	15.1117315	12	24	30.143	-1	10	31.51	136	1.203	zu1		
1975	11	15.1134213	12	24	30.502	-1	10	33.37	147	1.115	zu1		
1975	11	15.1142292	12	24	30.684	-1	10	34.51	134	1.100	zu1		

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1975	11	15.1150938	12	24	30.918	-1	10	34.69	134	1.189 zu1
1975	11	15.1159699	12	24	31.134	-1	10	36.41	146	1.423 zu1
1975	11	15.1488542	12	24	38.962	-1	11	18.19	127	1.203 zu1
1975	11	15.1497581	12	24	39.172	-1	11	19.68	133	1.394 zu1
1975	11	15.1506586	12	24	39.383	-1	11	20.55	146	1.394 zu1
1975	11	15.1515556	12	24	39.550	-1	11	22.19	133	1.167 zu1
1975	11	15.1565741	12	24	40.772	-1	11	28.47	146	1.262 zu1
1975	11	15.1573218	12	24	40.934	-1	11	29.17	137	1.218 zu1
1975	11	15.1582431	12	24	41.146	-1	11	30.68	142	1.218 zu1
1975	11	15.1604514	12	24	41.716	-1	11	33.02	124	0.954 du3
1975	11	15.1621377	12	24	42.096	-1	11	35.31	124	0.968 du3
1975	11	15.1636296	12	24	42.451	-1	11	37.29	126	0.998 du3
1975	11	15.1651447	12	24	42.833	-1	11	39.53	124	0.932 du3
1975	11	16.0986806	12	28	26.883	-1	31	32.32	143	1.264 zu1
1975	11	16.0997280	12	28	27.140	-1	31	33.57	134	1.132 zu1
1975	11	16.1008171	12	28	27.340	-1	31	34.71	146	1.375 zu1
1975	11	16.1021493	12	28	27.684	-1	31	36.77	142	1.235 zu1
1975	11	16.1033079	12	28	27.972	-1	31	38.01	151	1.455 zu1
1975	11	16.1043935	12	28	28.250	-1	31	39.86	132	1.308 zu1
1975	11	16.1056088	12	28	28.518	-1	31	41.42	135	1.272 zu1
1975	11	16.1067442	12	28	28.788	-1	31	41.99	134	1.264 zu1
1975	11	16.1078438	12	28	29.062	-1	31	44.09	143	1.323 zu1
1975	11	16.1090775	12	28	29.362	-1	31	45.77	143	1.279 zu1
1975	11	16.1437558	12	28	37.650	-1	32	29.87	138	1.169 zu1
1975	11	16.1449109	12	28	37.870	-1	32	31.42	133	1.103 zu1
1975	11	16.1460208	12	28	38.156	-1	32	32.36	160	1.397 zu1
1975	11	16.1508264	12	28	39.284	-1	32	39.27	146	1.323 zu1
1975	11	16.1519977	12	28	39.576	-1	32	41.05	150	1.448 zu1
1975	11	16.1533333	12	28	39.906	-1	32	42.87	150	1.433 zu1
1975	11	16.1543519	12	28	40.136	-1	32	44.16	149	1.345 zu1
1975	11	16.1555694	12	28	40.453	-1	32	44.99	144	1.382 zu1
1975	11	16.1576782	12	28	40.923	-1	32	47.96	147	1.529 zu1
1975	11	16.1587083	12	28	41.188	-1	32	49.59	150	1.382 zu1
1975	11	16.1597847	12	28	41.448	-1	32	50.01	150	1.536 zu1
1975	11	16.1625926	12	28	42.135	-1	32	53.91	134	1.213 du2
1975	11	16.1637986	12	28	42.421	-1	32	55.61	134	1.235 du2
1975	11	16.1647870	12	28	42.663	-1	32	57.43	142	1.250 du2
1975	11	16.1679676	12	28	43.404	-1	33	01.89	130	1.250 du3
1975	11	16.1693681	12	28	43.719	-1	33	03.77	138	1.235 du3
1975	11	16.1706968	12	28	44.078	-1	33	04.93	133	1.250 du3
1975	11	16.1718843	12	28	44.360	-1	33	06.71	123	1.029 du3
1975	11	17.1416794	12	32	38.100	-1	53	58.65	135	1.208 zu1
1975	11	17.1429838	12	32	38.439	-1	54	00.73	134	1.163 zu1
1975	11	17.1440463	12	32	38.693	-1	54	01.81	135	1.075 zu1
1975	11	17.1451088	12	32	38.947	-1	54	02.79	130	1.148 zu1
1975	11	17.1461481	12	32	39.210	-1	54	04.77	131	1.200 zu1
1975	11	17.1472407	12	32	39.444	-1	54	06.31	133	1.237 zu1
1975	11	17.1482546	12	32	39.695	-1	54	07.39	145	1.244 zu1
1975	11	17.1494028	12	32	39.982	-1	54	08.31	137	1.251 zu1
1975	11	17.1504248	12	32	40.203	-1	54	10.33	137	1.237 zu1
1975	11	17.1515868	12	32	40.497	-1	54	11.45	141	1.458 zu1
1975	11	17.1526968	12	32	40.782	-1	54	12.90	135	1.193 zu1

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1975	11	17.1537419	12	32	41.017	-1	54	14.49	132	1.193 zu1
1975	11	17.1575637	12	32	41.915	-1	54	19.35	142	1.318 zu1
1975	11	17.1585822	12	32	42.166	-1	54	20.45	142	1.318 zu1
1975	11	17.1608495	12	32	42.736	-1	54	23.68	135	1.281 zu1
1975	11	17.1640185	12	32	43.506	-1	54	28.21	124	0.994 du3
1975	11	17.1654248	12	32	43.831	-1	54	29.75	123	1.031 du3
1975	11	17.1668935	12	32	44.163	-1	54	31.63	127	1.075 du3
1975	11	17.1683970	12	32	44.545	-1	54	33.68	131	1.104 du3
1975	11	17.1699259	12	32	44.911	-1	54	35.49	130	1.126 du3
1975	11	18.1340104	12	36	38.349	-2	15	31.65	134	1.133 zu1
1975	11	18.1355278	12	36	38.708	-2	15	33.25	124	1.075 zu1
1975	11	18.1386262	12	36	39.479	-2	15	37.29	124	1.178 zu1
1975	11	18.1401898	12	36	39.861	-2	15	39.75	130	1.251 zu1
1975	11	18.1415544	12	36	40.168	-2	15	41.55	130	1.038 zu1
1975	11	18.1429190	12	36	40.518	-2	15	43.15	140	1.104 zu1
1975	11	18.1443229	12	36	40.839	-2	15	45.52	134	1.141 zu1
1975	11	18.1455208	12	36	41.161	-2	15	46.35	135	1.133 zu1
1975	11	18.1468461	12	36	41.429	-2	15	48.84	132	1.369 zu1
1975	11	18.1529606	12	36	42.949	-2	15	56.69	152	1.303 zu1
1975	11	18.1543611	12	36	43.295	-2	15	58.10	138	1.229 zu1
1975	11	18.1557731	12	36	43.637	-2	16	00.47	142	1.214 zu1
1975	11	18.1574433	12	36	44.001	-2	16	01.69	142	1.457 zu1
1975	11	18.1599271	12	36	44.589	-2	16	05.91	145	1.325 zu1
1975	11	18.1609942	12	36	44.859	-2	16	06.41	139	1.273 zu1
1975	11	18.1623414	12	36	45.198	-2	16	08.19	141	1.340 zu1
1975	11	18.1677975	12	36	46.475	-2	16	15.57	168	1.413 zu1
1975	11	18.1698993	12	36	47.005	-2	16	18.51	137	1.281 zu1
1975	11	18.1728669	12	36	47.745	-2	16	22.73	115	0.883 du3
1975	11	18.1743495	12	36	48.099	-2	16	24.51	118	0.972 du3
1975	11	18.1756678	12	36	48.411	-2	16	26.40	118	1.038 du3
1975	11	18.1771829	12	36	48.753	-2	16	27.67	118	0.920 du3
1975	11	18.1785706	12	36	49.105	-2	16	29.75	127	1.030 du3
1975	11	28.1696146	13	18	07.907	-6	01	28.40	120	1.194 zu1
1975	11	28.1757083	13	18	09.445	-6	01	36.99	123	1.224 zu1
1975	11	28.1767234	13	18	09.707	-6	01	38.44	125	1.179 zu1
1975	11	28.1777176	13	18	09.968	-6	01	39.96	124	1.224 zu1
1975	11	28.1787315	13	18	10.211	-6	01	41.32	126	1.224 zu1
1975	11	28.1809491	13	18	10.769	-6	01	44.25	130	1.232 zu1
1975	11	28.1819734	13	18	11.013	-6	01	45.78	131	1.299 zu1
1975	11	28.1829965	13	18	11.252	-6	01	46.99	120	1.209 zu1
1975	11	28.1875162	13	18	12.411	-6	01	53.34	113	1.134 du3
1975	11	28.1889884	13	18	12.773	-6	01	54.90	117	1.105 du3
1975	11	28.1928264	13	18	13.769	-6	02	00.88	121	1.142 du3
1975	11	28.1941701	13	18	14.097	-6	02	01.96	121	1.142 du3
1975	11	28.1973576	13	18	14.891	-6	02	06.94	115	1.075 du3
1977	01	03.6015544	22	07	39.535	-13	06	01.83	137	1.583 zu1
1977	01	03.6028287	22	07	39.874	-13	05	59.60	141	1.464 zu1
1977	01	03.6040984	22	07	40.167	-13	05	57.84	152	1.745 zu1
1977	01	03.6052500	22	07	40.477	-13	05	56.08	127	1.553 zu1
1977	01	03.6148206	22	07	42.862	-13	05	40.20	135	1.442 zu1
1977	01	03.6155752	22	07	43.039	-13	05	39.04	125	1.368 zu1
1977	01	03.6165324	22	07	43.303	-13	05	37.57	126	1.206 zu1

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1977	01	03.6179062	22	07	43.629	-13	05	35.76	126	1.390 zu1
1977	01	03.6189329	22	07	43.925	-13	05	34.00	143	1.442 zu1
1977	01	03.6200463	22	07	44.150	-13	05	32.42	139	1.664 zu1
1977	01	03.6210833	22	07	44.448	-13	05	30.28	135	1.331 zu1
1977	01	03.6223808	22	07	44.746	-13	05	28.04	126	1.435 zu1
1977	01	04.5878854	22	11	48.615	-12	39	23.68	106	0.909 du3
1977	01	04.5888275	22	11	48.877	-12	39	22.54	95	0.805 du3
1977	01	04.5897546	22	11	49.103	-12	39	20.92	87	0.798 du3
1977	01	04.5907072	22	11	49.323	-12	39	18.90	111	0.931 du3
1977	01	14.6226481	22	52	20.669	-7	56	18.03	140	1.193 zu1
1977	01	14.6258414	22	52	21.413	-7	56	12.27	140	1.236 zu1
1977	01	14.6269167	22	52	21.637	-7	56	10.59	138	1.229 zu1
1977	01	14.6279572	22	52	21.879	-7	56	08.63	130	1.164 zu1
1977	01	14.6290648	22	52	22.132	-7	56	06.50	142	1.164 zu1
1977	01	15.6042419	22	56	08.735	-7	27	42.33	113	0.704 du3
1977	01	15.6055127	22	56	09.075	-7	27	39.98	115	0.552 du3
1977	01	15.6092512	22	56	09.928	-7	27	33.44	112	0.516 du3
1977	01	15.6104734	22	56	10.203	-7	27	30.97	116	0.639 du3
1977	01	15.6117338	22	56	10.491	-7	27	29.11	116	0.690 du3
1977	01	15.6150498	22	56	11.261	-7	27	22.87	116	0.712 du3
1977	01	15.6165498	22	56	11.593	-7	27	20.94	115	0.726 du3
1977	01	15.6179861	22	56	11.898	-7	27	18.48	116	0.799 du3
1977	01	15.6193426	22	56	12.227	-7	27	15.49	112	0.603 du3
1977	01	15.6206354	22	56	12.521	-7	27	13.24	115	0.516 du3
1977	01	15.6263588	22	56	13.827	-7	27	03.53	132	1.118 zu1
1977	01	15.6275359	22	56	14.131	-7	27	01.22	134	1.140 zu1
1977	01	15.6288113	22	56	14.407	-7	26	58.87	143	1.198 zu1
1977	01	15.6300787	22	56	14.685	-7	26	56.85	141	1.162 zu1
1977	01	15.6313866	22	56	15.001	-7	26	55.11	127	1.017 zu1
1977	01	15.6326319	22	56	15.300	-7	26	52.29	133	1.031 zu1
1977	01	15.6339005	22	56	15.549	-7	26	50.35	125	1.111 zu1
1977	01	15.6375775	22	56	16.447	-7	26	43.46	129	1.002 zu1
1977	01	15.6389097	22	56	16.731	-7	26	41.70	134	1.060 zu1
1977	01	15.6401458	22	56	17.020	-7	26	38.72	134	1.046 zu1
1977	01	15.6413866	22	56	17.297	-7	26	36.89	143	1.126 zu1
1977	01	15.6426435	22	56	17.556	-7	26	34.59	128	1.053 zu1
1977	01	15.6438565	22	56	17.885	-7	26	32.53	136	1.111 zu1
1977	01	15.6451065	22	56	18.139	-7	26	30.83	129	1.089 zu1
1977	01	15.6462986	22	56	18.441	-7	26	28.64	128	1.002 zu1
1977	01	15.6476435	22	56	18.737	-7	26	25.99	128	1.031 zu1
1977	01	16.6083206	23	00	00.230	-6	58	20.18	105	0.740 du3
1977	01	16.6096400	23	00	00.518	-6	58	18.03	101	0.733 du3
1977	01	16.6111574	23	00	00.865	-6	58	15.19	111	0.798 du3
1977	01	16.6126192	23	00	01.182	-6	58	13.09	112	0.849 du3
1977	01	16.6167743	23	00	02.151	-6	58	05.63	119	0.798 du3
1977	01	16.6182315	23	00	02.503	-6	58	02.89	124	0.827 du3
1977	01	16.6195868	23	00	02.780	-6	58	00.47	114	0.704 du3
1977	01	16.6227755	23	00	03.476	-6	57	54.90	115	0.660 du3
1977	01	16.6277176	23	00	04.648	-6	57	45.91	124	1.059 zu1
1977	01	16.6292789	23	00	05.035	-6	57	43.33	124	1.059 zu1
1977	01	16.6307859	23	00	05.368	-6	57	41.25	125	1.016 zu1
1977	01	16.6322211	23	00	05.678	-6	57	38.65	125	1.001 zu1

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1977	01	16.6334803	23	00	05.956	-6	57	35.88	123	1.059 zu1
1977	01	16.6349595	23	00	06.298	-6	57	33.79	126	1.139 zu1
1977	01	16.6360718	23	00	06.536	-6	57	31.61	123	1.124 zu1
1977	01	16.6372512	23	00	06.808	-6	57	29.29	124	1.088 zu1
1977	01	16.6397917	23	00	07.424	-6	57	25.21	132	0.994 zu1
1977	01	16.6410104	23	00	07.683	-6	57	23.17	124	0.950 zu1
1977	01	16.6462755	23	00	08.834	-6	57	13.51	124	1.146 zu1
1977	01	16.6474954	23	00	09.157	-6	57	11.37	128	0.987 zu1
1977	01	16.6513032	23	00	10.012	-6	57	04.86	134	1.001 zu1
1977	01	17.6125822	23	03	49.914	-6	28	52.00	104	0.783 du3
1977	01	17.6155116	23	03	50.558	-6	28	47.00	113	0.826 du3
1977	01	17.6183218	23	03	51.218	-6	28	41.77	127	0.985 du3
1977	01	17.6227981	23	03	52.242	-6	28	33.89	155	1.363 zu1
1977	01	17.6262988	23	03	53.010	-6	28	28.21	140	1.326 zu1
1977	01	17.6277057	23	03	53.329	-6	28	25.29	143	1.355 zu1
1977	01	17.6290002	23	03	53.636	-6	28	23.37	149	1.370 zu1
1977	01	17.6304319	23	03	53.915	-6	28	20.17	143	1.333 zu1
1977	01	17.6321715	23	03	54.354	-6	28	17.01	162	1.406 zu1
1977	01	17.6388251	23	03	55.815	-6	28	05.75	116	0.855 du3
1977	01	17.6408698	23	03	56.276	-6	28	02.47	110	0.812 du3
1977	01	17.6427782	23	03	56.718	-6	27	58.37	113	0.819 du3
1977	01	19.6057957	23	11	20.326	-5	30	07.34	118	0.687 du3
1977	01	19.6090324	23	11	21.044	-5	30	01.72	117	0.680 du3
1977	01	19.6136244	23	11	22.070	-5	29	53.32	107	0.463 du3
1977	01	19.6173819	23	11	22.912	-5	29	47.03	120	0.629 du3
1977	01	19.6208498	23	11	23.710	-5	29	40.70	133	1.113 zu1
1977	01	19.6290619	23	11	25.517	-5	29	25.77	147	1.193 zu1
1977	01	19.6307223	23	11	25.910	-5	29	23.48	144	1.207 zu1
1977	02	07.6309782	00	16	21.704	3	47	32.10	141	0.572 du3
1977	02	07.6324586	00	16	21.968	3	47	34.88	142	0.441 du3
1977	02	07.6339613	00	16	22.256	3	47	37.42	151	0.492 du3
1977	02	07.6354572	00	16	22.510	3	47	39.98	143	0.427 du3
1977	02	07.6386444	00	16	23.118	3	47	45.08	151	0.543 du3
1977	02	07.6401199	00	16	23.352	3	47	48.16	147	0.521 du3
1977	02	07.6417972	00	16	23.670	3	47	50.53	147	0.434 du3
1977	02	07.6436612	00	16	24.032	3	47	53.52	155	0.608 du3
1977	02	07.6473699	00	16	24.720	3	47	59.72	165	1.013 zu1
1977	02	07.6493140	00	16	25.054	3	48	03.19	165	0.970 zu1
1977	02	11.6621648	00	28	20.159	5	39	42.99	168	0.688 du3
1977	02	11.6644005	00	28	20.544	5	39	46.23	171	0.754 du3
1977	02	11.6655623	00	28	20.728	5	39	48.49	159	0.710 du3
1977	02	11.6688385	00	28	21.333	5	39	53.89	168	0.615 du3
1977	02	11.6709378	00	28	21.665	5	39	57.51	172	0.673 du3
1977	02	11.6874421	00	28	24.495	5	40	24.31	168	0.622 du3
1977	02	11.6886471	00	28	24.690	5	40	26.05	167	0.644 du3
1977	02	11.6903531	00	28	24.991	5	40	29.17	167	0.702 du3
1977	02	11.6916185	00	28	25.185	5	40	31.05	168	0.607 du3
1977	02	11.6928942	00	28	25.417	5	40	32.99	168	0.629 du3
1977	02	11.6955656	00	28	25.886	5	40	37.67	178	0.878 zu1
1977	02	11.6967205	00	28	26.060	5	40	39.33	173	0.841 zu1
1977	02	13.6407957	00	33	55.969	6	33	18.95	168	0.751 du3
1977	02	13.6421155	00	33	56.204	6	33	20.76	168	0.721 du3

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1977	02	13.6434300	00	33	56.423	6	33	22.71	168	0.714	du3		
1977	02	13.6448103	00	33	56.617	6	33	25.35	169	0.692	du3		
1977	02	13.6475609	00	33	57.070	6	33	29.81	157	0.530	du3		
1977	02	13.6488572	00	33	57.292	6	33	32.06	167	0.626	du3		
1977	02	13.6501499	00	33	57.506	6	33	33.89	167	0.633	du3		
1977	02	13.6514229	00	33	57.713	6	33	36.00	169	0.721	du3		
1977	02	13.6527043	00	33	57.938	6	33	38.33	172	0.758	du3		
1977	02	13.6552910	00	33	58.334	6	33	42.07	165	0.523	du3		
1977	02	13.6582221	00	33	58.825	6	33	47.01	185	1.134	zu1		
1977	02	13.6594678	00	33	59.026	6	33	49.07	188	1.178	zu1		
1977	02	13.6607683	00	33	59.244	6	33	50.51	188	1.178	zu1		
1977	02	13.6620185	00	33	59.448	6	33	53.08	190	1.325	zu1		
1977	02	13.6637889	00	33	59.728	6	33	56.47	178	1.016	zu1		
1977	02	13.6650152	00	33	59.942	6	33	58.14	188	1.148	zu1		
1977	02	13.6692422	00	34	00.656	6	34	04.37	182	1.067	zu1		
1977	02	13.6704288	00	34	00.828	6	34	06.31	179	0.964	zu1		
1977	02	13.6715796	00	34	01.048	6	34	08.57	177	0.913	zu1		
1977	02	13.6727456	00	34	01.234	6	34	10.17	184	1.031	zu1		
1977	02	13.6739172	00	34	01.410	6	34	11.63	185	1.031	zu1		
1977	02	13.6750909	00	34	01.582	6	34	14.07	177	0.898	zu1		
1977	02	13.6762645	00	34	01.788	6	34	16.17	181	1.038	zu1		
1977	02	13.6773037	00	34	01.944	6	34	17.73	182	0.986	zu1		
1977	02	14.6527488	00	36	43.023	7	00	18.65	183	0.917	du3		
1977	02	14.6542049	00	36	43.266	7	00	20.77	177	0.946	du3		
1977	02	14.6560139	00	36	43.544	7	00	23.39	177	0.924	du3		
1977	02	14.6572743	00	36	43.714	7	00	25.78	177	0.843	du3		
1977	02	14.6585104	00	36	43.934	7	00	27.47	172	0.850	du3		
1977	02	14.6597488	00	36	44.124	7	00	29.58	171	0.732	du3		
1977	02	14.6610648	00	36	44.316	7	00	31.81	177	0.843	du3		
1977	02	14.6638125	00	36	44.796	7	00	35.63	176	0.969	du3		
1977	02	14.6650498	00	36	44.950	7	00	37.70	174	0.909	du3		
1977	02	14.6677558	00	36	45.444	7	00	41.61	168	0.858	du3		
1977	02	14.6690949	00	36	45.631	7	00	43.59	176	0.887	du3		
1977	02	14.6702789	00	36	45.810	7	00	46.23	177	0.917	du3		
1977	02	14.6715509	00	36	46.034	7	00	47.84	177	0.917	du3		
1977	02	14.6727419	00	36	46.216	7	00	50.31	176	0.857	du3		
1977	02	14.6739456	00	36	46.410	7	00	52.33	176	0.872	du3		
1977	02	14.6745729	00	36	46.508	7	00	53.15	170	0.776	du3		
1977	02	14.6784144	00	36	47.151	7	00	59.55	191	1.079	zu1		
1977	02	14.6795683	00	36	47.339	7	01	01.12	197	1.183	zu1		
1977	02	14.6807488	00	36	47.486	7	01	03.33	184	1.117	zu1		
1977	02	14.6817697	00	36	47.690	7	01	04.03	187	1.190	zu1		
1977	02	14.6828275	00	36	47.838	7	01	06.42	197	1.190	zu1		
1977	02	14.6838623	00	36	48.003	7	01	07.39	191	1.146	zu1		
1977	02	14.6851377	00	36	48.209	7	01	10.13	184	1.057	zu1		
1977	02	14.6865451	00	36	48.464	7	01	12.35	196	1.153	zu1		
1977	02	14.6901481	00	36	49.024	7	01	17.89	191	1.109	zu1		
1977	02	14.6911690	00	36	49.221	7	01	19.06	185	1.109	zu1		
1977	02	14.6921806	00	36	49.330	7	01	21.40	176	1.006	zu1		
1977	02	14.6932164	00	36	49.500	7	01	22.03	185	1.168	zu1		
1977	02	15.6498373	00	39	24.399	7	26	35.45	179	0.803	du3		
1977	02	15.6514919	00	39	24.651	7	26	38.29	175	0.892	du3		

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1977	02	15.6530348	00	39	24.923	7	26	41.91	179	0.855 du3
1977	02	15.6545517	00	39	25.117	7	26	43.46	176	0.759 du3
1977	02	15.6579398	00	39	25.686	7	26	48.26	187	1.063 zu1
1977	02	15.6592755	00	39	25.905	7	26	50.29	185	1.063 zu1
1977	02	15.6605417	00	39	26.097	7	26	52.40	183	1.041 zu1
1977	02	15.6644560	00	39	26.689	7	26	58.62	176	0.833 du3
1977	02	15.6681956	00	39	27.287	7	27	04.68	177	0.900 du3
1977	02	15.6702998	00	39	27.604	7	27	07.57	174	0.863 du3
1977	02	15.6723090	00	39	27.941	7	27	10.59	176	0.855 du3
1977	02	15.6759178	00	39	28.511	7	27	16.13	177	0.863 du3
1977	02	15.6773507	00	39	28.727	7	27	18.85	187	0.989 du3
1977	02	15.6791169	00	39	29.015	7	27	21.75	184	0.937 du3
1977	02	28.6684902	01	08	29.993	12	33	40.82	221	0.804 du3
1977	02	28.6700258	01	08	30.162	12	33	42.43	211	0.670 du3
1977	02	28.6714965	01	08	30.276	12	33	44.24	204	0.502 du3
1977	02	28.6729860	01	08	30.445	12	33	46.02	211	0.653 du3
1977	02	28.6744287	01	08	30.576	12	33	47.86	209	0.586 du3
1977	02	28.6773127	01	08	30.870	12	33	51.14	228	1.046 zu1
1977	02	28.6784652	01	08	30.954	12	33	53.22	226	0.955 zu1
1977	02	28.6797095	01	08	31.100	12	33	54.12	223	1.022 zu1
1977	02	28.6808899	01	08	31.218	12	33	56.00	225	1.047 zu1
1977	02	28.6819524	01	08	31.313	12	33	56.74	227	0.955 zu1
1977	02	28.6830353	01	08	31.416	12	33	58.60	228	0.963 zu1
1977	02	28.6844218	01	08	31.563	12	33	59.68	229	1.022 zu1
1977	02	28.6854589	01	08	31.660	12	34	01.06	226	0.930 zu1
1977	02	28.6884391	01	08	32.001	12	34	04.57	208	0.536 du3
1977	02	28.6898743	01	08	32.134	12	34	06.38	202	0.452 du3
1977	02	28.6912093	01	08	32.254	12	34	08.83	210	0.419 du3
1977	02	28.6925728	01	08	32.368	12	34	10.28	208	0.536 du3
1977	02	28.6940896	01	08	32.548	12	34	11.62	206	0.486 du3
1977	02	28.6956339	01	08	32.684	12	34	13.43	200	0.494 du3
1977	02	28.6971110	01	08	32.862	12	34	15.50	210	0.419 du3
1977	02	28.6986057	01	08	33.032	12	34	17.68	210	0.569 du3
1977	03	10.6725660	01	20	14.868	15	21	42.58	265	1.198 du3
1977	03	10.6735891	01	20	14.922	15	21	43.22	263	1.144 du3
1977	03	10.6752338	01	20	14.974	15	21	44.47	263	1.335 du3
1977	03	10.6786262	01	20	15.063	15	21	47.23	259	1.166 du3
1977	03	10.6801944	01	20	15.117	15	21	48.10	262	1.134 du3
1977	03	10.6857662	01	20	15.314	15	21	51.94	262	1.113 du3
1977	03	10.6872604	01	20	15.337	15	21	52.90	257	1.113 du3
1977	03	10.6888241	01	20	15.398	15	21	54.21	262	1.134 du3
1977	03	10.6897222	01	20	15.434	15	21	54.98	257	1.166 du3
1977	03	10.6928704	01	20	15.490	15	21	56.90	271	1.399 zu1
1977	03	10.6939366	01	20	15.510	15	21	58.21	280	1.484 zu1
1977	03	10.6950157	01	20	15.572	15	21	58.82	271	1.399 zu1
1977	03	10.6960313	01	20	15.574	15	22	59.72	269	1.272 zu1
1977	03	10.6971142	01	20	15.650	15	22	00.66	273	1.229 zu1
1977	03	10.6981752	01	20	15.667	15	22	01.26	269	1.325 zu1
1977	03	10.7010925	01	20	15.803	15	22	03.32	271	1.293 zu1
1977	03	10.7021704	01	20	15.827	15	22	04.54	272	1.145 zu1
1977	03	10.7031913	01	20	15.830	15	22	05.20	275	1.261 zu1
1977	03	10.7041824	01	20	15.886	15	22	05.40	270	1.272 zu1

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1977	03	10.7051936	01	20	15.900	15	22	05.79	265	1.314	zu1		
1977	03	10.7081747	01	20	16.011	15	22	08.26	268	1.250	zu1		
1980	01	10.5982049	21	45	35.902	-15	18	45.39	73	0.901	du2		
1980	01	10.5992442	21	45	36.209	-15	18	43.94	73	0.842	du2		
1980	01	10.6004664	21	45	36.549	-15	18	41.82	73	0.893	du2		
1980	01	10.6018148	21	45	36.931	-15	18	39.88	64	0.664	du2		
1980	01	10.6064884	21	45	38.302	-15	18	32.54	73	0.950	zu1		
1980	01	10.6077014	21	45	38.649	-15	18	30.88	67	0.876	zu1		
1980	01	10.6089641	21	45	39.014	-15	18	28.64	73	1.000	zu1		
1980	01	10.6101389	21	45	39.331	-15	18	27.19	70	0.950	zu1		
1980	01	19.6123426	22	27	45.295	-11	16	10.71	78	0.986	du2		
1980	01	19.6133368	22	27	45.581	-11	16	08.72	87	1.157	du2		
1980	01	19.6144792	22	27	45.869	-11	16	07.03	95	1.312	du2		
1980	01	19.6164734	22	27	46.417	-11	16	03.23	87	1.166	du2		
1980	01	19.6187477	22	27	47.077	-11	15	59.47	86	1.157	zu1		
1980	01	19.6197650	22	27	47.359	-11	15	57.93	93	1.353	zu1		
1980	01	19.6208067	22	27	47.629	-11	15	55.13	102	1.500	zu1		
1980	01	19.6217986	22	27	47.908	-11	15	54.09	103	1.361	zu1		
1980	01	19.6247766	22	27	48.719	-11	15	48.98	100	1.418	zu1		
1980	01	19.6258576	22	27	49.023	-11	15	47.16	101	1.450	zu1		
1980	01	19.6268819	22	27	49.298	-11	15	45.64	95	1.402	zu1		
1980	01	19.6278981	22	27	49.593	-11	15	44.05	95	1.386	zu1		
1980	01	19.6289086	22	27	49.847	-11	15	42.47	98	1.467	zu1		
1980	01	22.6008889	22	41	21.885	-9	50	11.99	93	1.175	du3		
1980	01	22.6041308	22	41	22.779	-9	50	05.65	97	1.313	du3		
1980	01	22.6080394	22	41	23.811	-9	49	58.79	98	1.427	du3		
1980	01	22.6105023	22	41	24.491	-9	49	54.61	100	1.346	du3		
1980	01	22.6136551	22	41	25.352	-9	49	49.75	86	1.273	du2		
1980	01	22.6151308	22	41	25.753	-9	49	47.25	86	1.216	du2		
1980	01	22.6165961	22	41	26.163	-9	49	44.75	86	1.248	du2		
1980	01	22.6182245	22	41	26.599	-9	49	41.15	93	1.273	du2		
1980	01	22.6196748	22	41	26.984	-9	49	38.53	80	1.054	du2		
1980	01	22.6240637	22	41	28.209	-9	49	30.99	106	1.378	zu1		
1980	01	22.6255718	22	41	28.602	-9	49	28.38	106	1.451	zu1		
1980	01	22.6270127	22	41	28.990	-9	49	25.83	110	1.589	zu1		
1980	01	22.6284977	22	41	29.401	-9	49	23.11	96	1.265	zu1		
1980	01	30.6178981	23	17	05.769	-5	49	46.56	91	1.289	du2		
1980	01	30.6195706	23	17	06.209	-5	49	43.30	88	1.128	du2		
1980	01	30.6210069	23	17	06.592	-5	49	40.64	94	1.232	du2		
1980	01	30.6222535	23	17	06.921	-5	49	39.00	85	1.088	du2		
1980	01	30.6253681	23	17	07.758	-5	49	32.72	96	1.224	zu1		
1980	01	30.6275752	23	17	08.320	-5	49	29.12	95	1.281	zu1		
1980	01	30.6289039	23	17	08.662	-5	49	26.18	91	1.184	zu1		
1980	01	30.6306713	23	17	09.153	-5	49	23.18	98	1.273	zu1		
1980	01	30.6321782	23	17	09.545	-5	49	20.19	90	1.216	zu1		
1980	01	30.6335243	23	17	09.865	-5	49	17.70	104	1.273	zu1		
1980	01	30.6367326	23	17	10.714	-5	49	11.90	91	1.200	du2		
1980	01	30.6387419	23	17	11.224	-5	49	08.17	91	1.128	du2		
1980	01	30.6394317	23	17	11.413	-5	49	07.24	83	1.008	du2		
1980	01	30.6407581	23	17	11.767	-5	49	04.41	91	1.184	du2		
1980	01	30.6420093	23	17	12.091	-5	49	02.38	93	1.168	du2		
1980	01	30.6432870	23	17	12.423	-5	48	59.91	90	1.232	du2		

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1980	02	26.6622786	01	12	37.680	8	12	00.78	94	1.023	zu1		
1980	02	26.6679786	01	12	39.146	8	12	10.21	116	1.305	zu1		
1980	02	26.6696197	01	12	39.526	8	12	13.84	102	1.176	zu1		
1980	02	26.6711240	01	12	39.972	8	12	16.63	108	1.237	zu1		
1980	02	26.6729594	01	12	40.416	8	12	19.35	117	1.420	zu1		
1980	02	26.6749216	01	12	40.898	8	12	22.86	106	1.275	zu1		
1980	02	26.6780235	01	12	41.661	8	12	28.50	94	0.916	du2		
1980	02	26.6795215	01	12	42.006	8	12	30.44	85	0.863	du2		
1980	02	26.6809861	01	12	42.422	8	12	33.13	93	0.947	du2		
1980	02	26.6825054	01	12	42.824	8	12	37.12	98	0.954	du2		
1980	02	26.6840269	01	12	43.156	8	12	39.50	89	0.878	du2		
1980	02	26.6874391	01	12	44.014	8	12	45.27	88	0.992	zu1		
1980	02	26.6888488	01	12	44.380	8	12	47.36	99	1.160	zu1		
1980	02	26.6916921	01	12	45.078	8	12	53.79	111	1.397	zu1		
1980	02	26.6931299	01	12	45.422	8	12	55.40	114	1.366	zu1		
1980	02	26.6945118	01	12	45.788	8	12	58.38	109	1.328	zu1		
1980	02	26.6958922	01	12	46.142	8	13	00.14	104	1.389	zu1		
1980	02	26.6972792	01	12	46.504	8	13	03.90	102	1.198	zu1		
1980	02	26.6986275	01	12	46.820	8	13	05.34	92	1.084	zu1		
1980	02	26.6999834	01	12	47.154	8	13	08.70	97	1.076	zu1		
1980	02	27.6611493	01	16	50.161	8	42	00.22	100	1.081	du3		
1980	02	27.6647350	01	16	51.076	8	42	06.92	101	1.104	du3		
1980	02	27.6696944	01	16	52.310	8	42	15.35	99	1.119	du3		
1980	02	27.6722338	01	16	52.946	8	42	20.38	101	1.104	du3		
1980	02	27.6752118	01	16	53.712	8	42	25.08	90	0.990	du3		
1980	02	27.6768634	01	16	54.086	8	42	28.68	95	0.975	du3		
1980	02	27.6784340	01	16	54.468	8	42	30.99	95	1.081	du3		
1980	02	27.6799514	01	16	54.886	8	42	33.76	92	0.838	du3		
1980	02	27.6814745	01	16	55.259	8	42	36.42	94	0.944	du3		
1980	02	27.6829815	01	16	55.644	8	42	38.94	93	0.982	du3		
1980	02	27.6860509	01	16	56.419	8	42	44.42	105	1.173	zu1		
1980	02	27.6875255	01	16	56.817	8	42	46.92	95	0.959	zu1		
1980	02	27.6890324	01	16	57.204	8	42	49.98	102	1.203	zu1		
1980	02	27.6905359	01	16	57.524	8	42	53.02	109	1.279	zu1		
1980	02	27.6920984	01	16	57.938	8	42	55.05	96	1.203	zu1		
1980	02	27.6950255	01	16	58.682	8	43	00.50	94	1.005	zu1		
1980	02	27.6965231	01	16	59.050	8	43	03.03	102	1.195	zu1		
1980	02	27.6980810	01	16	59.454	8	43	06.63	115	1.393	zu1		
1980	02	27.6998588	01	16	59.892	8	43	09.18	106	1.294	zu1		
1980	02	27.7013079	01	17	00.287	8	43	11.74	106	1.218	zu1		
1980	02	27.7028715	01	17	00.675	8	43	14.93	95	1.013	zu1		
1980	02	27.7061875	01	17	01.476	8	43	20.36	93	0.914	du2		
1980	02	27.7099410	01	17	02.456	8	43	27.16	93	0.868	du2		
1980	02	27.7115220	01	17	02.816	8	43	30.48	94	0.975	du2		
1980	02	27.7130313	01	17	03.225	8	43	33.35	87	0.678	du2		
1980	02	28.6609722	01	21	02.838	9	11	51.00	93	0.981	du3		
1980	02	28.6644722	01	21	03.702	9	11	57.14	94	0.951	du3		
1980	02	28.6682523	01	21	04.676	9	12	03.62	95	1.019	du3		
1980	02	28.6714653	01	21	05.464	9	12	09.62	86	0.745	du2		
1980	02	28.6729618	01	21	05.855	9	12	12.36	92	0.874	du2		
1980	02	28.6745023	01	21	06.240	9	12	14.90	87	0.798	du2		
1980	02	28.6760370	01	21	06.620	9	12	17.18	88	0.836	du2		

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1980	02	28.6775799	01	21	06.999	9	12	20.28	87	0.715	du2		
1980	02	28.6790810	01	21	07.404	9	12	22.92	89	0.791	du2		
1980	02	28.6827940	01	21	08.353	9	12	29.48	106	1.201	zu1		
1980	02	28.6843264	01	21	08.748	9	12	32.37	101	1.011	zu1		
1980	02	28.6858287	01	21	09.116	9	12	35.29	97	1.011	zu1		
1980	02	28.6888831	01	21	09.895	9	12	40.76	113	1.308	zu1		
1980	02	28.6910231	01	21	10.421	9	12	44.40	100	1.080	zu1		
1980	02	28.6944942	01	21	11.313	9	12	50.47	97	1.065	zu1		
1980	02	28.6959954	01	21	11.666	9	12	53.04	101	1.103	zu1		
1980	02	28.6975035	01	21	12.034	9	12	55.20	101	1.087	zu1		
1980	02	28.7002708	01	21	12.724	9	13	00.46	91	0.844	du2		
1980	02	28.7017523	01	21	13.112	9	13	03.38	87	0.874	du2		
1980	02	28.7032639	01	21	13.448	9	13	05.50	85	0.821	du2		
1980	02	28.7047731	01	21	13.868	9	13	08.38	92	0.829	du2		
1980	02	28.7062049	01	21	14.224	9	13	10.98	90	0.867	du2		
1980	02	29.6732674	01	25	18.654	9	41	51.00	100	1.100	du2		
1980	02	29.6752951	01	25	19.177	9	41	53.70	92	0.926	du2		
1980	02	29.6772755	01	25	19.670	9	41	57.94	95	1.017	du2		
1980	02	29.6793137	01	25	20.218	9	42	01.60	92	0.888	du2		
1980	02	29.6817164	01	25	20.793	9	42	05.46	98	1.138	du2		
1980	02	29.6912697	01	25	23.220	9	42	22.17	108	1.214	du2		
1980	02	29.6951887	01	25	24.164	9	42	28.93	108	1.237	du2		
1980	03	06.6734456	01	50	36.217	12	34	51.41	97	0.917	du3		
1980	03	06.6761921	01	50	36.887	12	34	56.49	96	0.902	du3		
1980	03	06.6787870	01	50	37.571	12	35	00.58	96	0.864	du3		
1980	03	06.6820440	01	50	38.383	12	35	06.24	101	0.909	du2		
1980	03	06.6835509	01	50	38.705	12	35	09.50	95	0.736	du2		
1980	03	06.6851007	01	50	39.111	12	35	11.72	96	0.751	du2		
1980	03	06.6867106	01	50	39.565	12	35	13.68	102	0.864	du2		
1980	03	06.6882558	01	50	39.941	12	35	16.34	98	0.939	du2		
1980	03	06.6898912	01	50	40.306	12	35	19.79	96	0.894	du2		
1980	03	06.6929815	01	50	41.165	12	35	24.75	98	0.947	zu1		
1980	03	06.6944398	01	50	41.546	12	35	27.49	101	1.007	zu1		
1980	03	06.6960220	01	50	41.865	12	35	30.38	106	1.029	zu1		
1980	03	06.6978368	01	50	42.363	12	35	33.23	102	0.933	zu1		
1980	03	06.7000498	01	50	42.858	12	35	36.72	106	1.029	zu1		
1980	03	06.7021667	01	50	43.408	12	35	39.82	103	0.999	zu1		
1980	03	06.7055903	01	50	44.271	12	35	45.75	93	0.834	du2		
1980	03	06.7096690	01	50	45.339	12	35	53.21	88	0.639	du2		
1980	03	06.7139676	01	50	46.389	12	35	59.42	97	0.841	du2		
1980	03	06.7161736	01	50	46.967	12	36	03.69	99	0.721	du2		
1980	03	07.6696204	01	54	48.470	13	02	41.31	103	0.990	du3		
1980	03	07.6735972	01	54	49.452	13	02	48.23	100	0.885	du3		
1980	03	07.6761227	01	54	50.100	13	02	52.27	93	0.810	du3		
1980	03	07.6800914	01	54	51.080	13	02	58.43	98	0.818	du3		
1980	03	07.6828889	01	54	51.821	13	03	03.73	104	0.908	du3		
1980	03	07.6853241	01	54	52.420	13	03	07.89	104	0.990	du3		
1980	03	07.6887593	01	54	53.283	13	03	13.35	95	0.945	du2		
1980	03	07.6903287	01	54	53.686	13	03	15.81	105	1.065	du2		
1980	03	07.6917454	01	54	54.053	13	03	17.91	95	0.893	du2		
1980	03	07.6933808	01	54	54.458	13	03	20.77	116	1.080	du2		
1980	03	07.6948495	01	54	54.805	13	03	23.20	98	0.870	du2		

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1980	03	07.6963796	01	54	55.209	13	03	26.03	106	1.028	du2
1980	03	07.6978553	01	54	55.588	13	03	27.89	97	0.833	du2
1980	03	07.7013160	01	54	56.428	13	03	34.35	105	1.110	zu1
1980	03	07.7027488	01	54	56.803	13	03	36.41	105	1.148	zu1
1980	03	07.7042477	01	54	57.232	13	03	38.99	106	1.073	zu1
1980	03	07.7056551	01	54	57.560	13	03	41.29	106	1.125	zu1
1980	03	07.7094618	01	54	58.485	13	03	47.91	106	1.125	zu1
1980	03	07.7110162	01	54	58.924	13	03	49.77	116	1.245	zu1
1980	03	07.7124954	01	54	59.302	13	03	52.47	117	1.238	zu1
1980	03	07.7140046	01	54	59.682	13	03	54.68	106	1.020	zu1
1980	03	07.7185671	01	55	00.776	13	04	03.07	96	0.870	du2
1980	03	07.7202257	01	55	01.223	13	04	05.26	96	0.863	du2
1980	03	07.7216389	01	55	01.584	13	04	07.95	98	0.908	du2
1980	03	11.6738484	02	11	43.686	14	51	33.29	106	1.025	du3
1980	03	11.6767350	02	11	44.421	14	51	37.78	105	0.914	du3
1980	03	11.6814201	02	11	45.615	14	51	45.19	106	0.921	du3
1980	03	11.6841157	02	11	46.297	14	51	49.61	106	0.921	du3
1980	03	11.6871667	02	11	47.035	14	51	54.07	102	0.817	du3
1980	03	11.6905938	02	11	47.914	14	52	00.02	114	1.070	du2
1980	03	11.6925880	02	11	48.396	14	52	02.95	114	1.144	du2
1980	03	11.6943287	02	11	48.822	14	52	06.12	103	0.958	du2
1980	03	11.6961806	02	11	49.351	14	52	08.56	119	1.033	du2
1980	03	11.6979051	02	11	49.773	14	52	11.25	106	0.981	du2
1980	03	11.6994583	02	11	50.126	14	52	13.15	106	0.951	du2
1980	03	11.7030289	02	11	51.045	14	52	18.95	126	1.352	zu1
1980	03	11.7049468	02	11	51.595	14	52	22.91	138	1.642	zu1
1980	03	11.7063588	02	11	51.931	14	52	24.59	140	1.515	zu1
1980	03	11.7095509	02	11	52.711	14	52	29.61	143	1.486	zu1
1980	03	11.7109618	02	11	53.067	14	52	32.29	123	1.382	zu1
1980	03	11.7125394	02	11	53.455	14	52	34.34	128	1.456	zu1
1980	03	11.7166898	02	11	54.531	14	52	40.90	120	1.129	du2
1980	03	11.7182708	02	11	54.905	14	52	43.65	102	0.966	du2
1980	03	11.7195266	02	11	55.221	14	52	45.12	114	1.114	du2
1980	03	12.6806019	02	15	59.253	15	18	07.18	123	1.321	du3
1980	03	12.6820208	02	15	59.620	15	18	10.01	129	1.336	du3
1980	03	12.6834051	02	15	59.929	15	18	11.70	115	1.284	du3
1980	03	12.6861169	02	16	00.681	15	18	16.43	115	1.210	du2
1980	03	12.6875150	02	16	01.033	15	18	18.79	121	1.284	du2
1980	03	12.6889213	02	16	01.351	15	18	20.87	115	1.284	du2
1980	03	12.6903183	02	16	01.733	15	18	23.07	107	1.091	du2
1980	03	12.6916840	02	16	02.048	15	18	24.75	124	1.262	du2
1980	03	12.6947431	02	16	02.815	15	18	30.03	141	1.692	zu1
1980	03	12.6962731	02	16	03.201	15	18	31.85	154	1.737	zu1
1980	03	12.6976771	02	16	03.571	15	18	33.65	152	1.841	zu1
1980	03	12.6990544	02	16	03.912	15	18	36.05	164	1.885	zu1
1980	03	12.7004525	02	16	04.265	15	18	38.13	141	1.766	zu1
1980	03	12.7019560	02	16	04.675	15	18	40.83	149	1.826	zu1
1980	03	12.7049398	02	16	05.425	15	18	45.21	111	1.039	du2
1980	03	12.7064051	02	16	05.796	15	18	47.13	114	1.306	du2
1980	03	12.7080313	02	16	06.200	15	18	50.86	117	1.284	du2
1980	03	12.7117870	02	16	07.149	15	18	56.23	115	1.210	du2
1980	03	12.7132894	02	16	07.511	15	18	58.65	107	1.017	du2

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1980	03	12.7175139	02	16	08.605	15	19	04.99	142	1.611	zu1
1980	03	12.7187859	02	16	08.917	15	19	07.09	148	1.781	zu1
1980	03	12.7202870	02	16	09.314	15	19	09.37	142	1.692	zu1
1980	03	12.7221458	02	16	09.757	15	19	11.93	144	1.692	zu1
1980	03	12.7234630	02	16	10.119	15	19	14.71	133	1.573	zu1
1980	03	13.6908495	02	20	15.872	15	44	26.73	118	1.111	du2
1980	03	13.6935810	02	20	16.581	15	44	30.63	112	1.066	du2
1980	03	13.6963183	02	20	17.260	15	44	35.11	116	1.086	du2
1980	03	13.6996574	02	20	18.091	15	44	40.31	109	0.926	du2
1980	03	13.7044097	02	20	19.289	15	44	47.21	103	0.852	du2
1980	03	13.7071100	02	20	19.967	15	44	51.46	102	0.881	du2
1980	03	13.7100984	02	20	20.739	15	44	55.84	103	0.911	du2
1980	03	14.6786076	02	24	26.915	16	09	50.01	115	1.079	du3
1980	03	14.6812269	02	24	27.581	16	09	54.31	110	1.027	du3
1980	03	14.6851748	02	24	28.571	16	10	00.81	110	1.013	du3
1980	03	14.6877500	02	24	29.226	16	10	04.55	119	1.124	du3
1980	03	14.6903947	02	24	29.862	16	10	08.36	114	1.072	du3
1980	03	14.6939583	02	24	30.819	16	10	13.33	115	1.138	du2
1980	03	14.6954398	02	24	31.150	16	10	15.44	121	1.212	du2
1980	03	14.6969271	02	24	31.519	16	10	18.25	121	1.286	du2
1980	03	14.6984468	02	24	31.935	16	10	20.81	121	1.168	du2
1980	03	14.6999780	02	24	32.337	16	10	22.49	121	1.227	du2
1980	03	14.7014745	02	24	32.660	16	10	25.43	123	1.271	du2
1980	03	14.7046817	02	24	33.525	16	10	30.53	134	1.500	zu1
1980	03	14.7061863	02	24	33.877	16	10	31.43	142	1.545	zu1
1980	03	14.7074560	02	24	34.189	16	10	33.67	142	1.648	zu1
1980	03	14.7095324	02	24	34.745	16	10	36.89	141	1.582	zu1
1980	03	14.7110532	02	24	35.115	16	10	39.08	138	1.508	zu1
1980	03	14.7125220	02	24	35.492	16	10	41.60	142	1.685	zu1
1980	03	14.7140174	02	24	35.884	16	10	44.17	134	1.478	zu1
1980	03	14.7177245	02	24	36.825	16	10	49.11	112	1.057	du2
1980	03	14.7192384	02	24	37.205	16	10	51.49	115	1.146	du2
1980	03	14.7206968	02	24	37.515	16	10	54.27	105	0.939	du2
1980	03	14.7221817	02	24	37.925	16	10	56.93	114	1.109	du2
1980	03	14.7234838	02	24	38.253	16	10	58.99	117	1.138	du2
1980	03	15.6745394	02	28	40.112	16	35	04.98	110	0.988	du3
1980	03	15.6788067	02	28	41.208	16	35	11.90	110	0.988	du3
1980	03	15.6814178	02	28	41.883	16	35	15.84	108	0.921	du3
1980	03	15.6852789	02	28	42.838	16	35	21.20	105	0.877	du3
1980	03	15.6885995	02	28	43.675	16	35	26.61	106	0.951	du3
1980	03	15.6931354	02	28	44.847	16	35	33.60	115	1.054	du2
1980	03	15.6946505	02	28	45.180	16	35	35.42	114	1.165	du2
1980	03	15.6961829	02	28	45.573	16	35	37.18	114	1.209	du2
1980	03	15.6976065	02	28	45.969	16	35	40.02	114	1.091	du2
1980	03	15.6990810	02	28	46.346	16	35	42.10	120	1.209	du2
1980	03	15.7005185	02	28	46.701	16	35	43.96	112	1.069	du2
1980	03	15.7050694	02	28	47.882	16	35	50.50	142	1.578	zu1
1980	03	15.7065370	02	28	48.241	16	35	53.17	124	1.378	zu1
1980	03	15.7100023	02	28	49.113	16	35	58.32	131	1.327	zu1
1980	03	15.7108044	02	28	49.359	16	35	59.31	142	1.460	zu1
1980	03	15.7121192	02	28	49.658	16	36	02.02	127	1.371	zu1
1980	03	22.6923079	02	58	26.087	19	22	09.86	114	0.889	du3

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1980	03	22.6947870	02	58	26.711	19	22	13.00	114	0.918 du3
1980	03	22.6989780	02	58	27.765	19	22	18.92	112	0.875 du3
1980	03	22.7013368	02	58	28.365	19	22	21.52	117	0.955 du3
1980	03	22.7037986	02	58	28.981	19	22	24.94	113	0.911 du3
1980	03	22.7095833	02	58	30.445	19	22	32.72	114	0.991 du2
1980	03	22.7110313	02	58	30.837	19	22	34.73	118	1.057 du2
1980	03	22.7125590	02	58	31.207	19	22	36.76	114	0.904 du2
1980	03	22.7139074	02	58	31.531	19	22	38.68	116	1.020 du2
1980	03	22.7152269	02	58	31.907	19	22	39.88	117	1.006 du2
1980	03	22.7168102	02	58	32.269	19	22	42.57	111	0.875 du2
1980	03	22.7181435	02	58	32.625	19	22	44.15	106	0.816 du2
1980	03	22.7221852	02	58	33.632	19	22	49.52	124	1.108 zu1
1980	03	22.7235903	02	58	34.002	19	22	51.32	120	0.962 zu1
1980	03	22.7250289	02	58	34.372	19	22	53.06	121	1.166 zu1
1980	03	22.7264109	02	58	34.719	19	22	54.60	120	1.130 zu1
1980	03	22.7277824	02	58	35.090	19	22	57.14	123	1.020 zu1
1980	03	22.7292315	02	58	35.460	19	22	58.86	122	1.079 zu1
1980	03	22.7305289	02	58	35.761	19	23	00.12	123	1.166 zu1
1980	03	22.7319282	02	58	36.135	19	23	01.95	114	0.991 zu1
1980	03	22.7349896	02	58	36.915	19	23	06.72	111	0.845 zu1
1980	03	22.7363333	02	58	37.244	19	23	07.36	112	0.955 zu1
1980	03	22.7377477	02	58	37.581	19	23	10.32	113	0.977 zu1
1980	03	22.7390660	02	58	37.937	19	23	12.10	120	1.050 zu1
1980	03	23.6945671	03	02	41.019	19	44	21.68	123	1.011 du3
1980	03	23.6986227	03	02	42.042	19	44	27.11	120	1.011 du3
1980	03	23.7009792	03	02	42.601	19	44	30.22	118	0.989 du3
1980	03	23.7046690	03	02	43.605	19	44	34.85	119	0.989 du3
1980	03	23.7065914	03	02	44.050	19	44	37.64	118	0.989 du3
1980	03	23.7100243	03	02	44.959	19	44	41.80	119	0.967 du3
1980	03	23.7140150	03	02	45.980	19	44	47.38	118	0.923 du2
1980	03	23.7153044	03	02	46.255	19	44	49.00	120	1.018 du2
1980	03	23.7167106	03	02	46.618	19	44	50.86	111	0.822 du2
1980	03	23.7179549	03	02	46.995	19	44	52.52	123	1.236 du2
1980	03	23.7202350	03	02	47.535	19	44	55.29	111	0.778 du2
1980	03	23.7218067	03	02	47.937	19	44	56.96	114	0.851 du2
1980	03	23.7233264	03	02	48.262	19	44	58.65	115	0.916 du2
1980	03	23.7248507	03	02	48.697	19	45	01.51	114	0.923 du2
1980	03	23.7281354	03	02	49.499	19	45	05.22	114	0.902 zu1
1980	03	23.7294965	03	02	49.869	19	45	06.68	120	1.032 zu1
1980	03	23.7310463	03	02	50.260	19	45	09.66	124	1.134 zu1
1980	03	23.7325475	03	02	50.671	19	45	11.00	123	1.178 zu1
1980	03	23.7340787	03	02	51.042	19	45	13.68	121	1.069 zu1
1980	03	23.7354861	03	02	51.421	19	45	15.49	120	0.974 zu1
1980	03	23.7366030	03	02	51.642	19	45	16.78	115	0.952 zu1
1980	03	23.7380174	03	02	52.067	19	45	18.75	116	1.054 zu1
1980	03	23.7394456	03	02	52.425	19	45	20.29	118	0.916 zu1
1980	03	24.7003947	03	06	56.748	20	06	10.92	114	0.944 du3
1980	03	24.7027419	03	06	57.338	20	06	14.10	116	0.966 du3
1980	03	24.7095787	03	06	59.071	20	06	23.38	118	0.959 du2
1980	03	24.7109977	03	06	59.422	20	06	25.23	114	0.944 du2
1980	03	24.7125486	03	06	59.781	20	06	27.72	112	0.792 du2
1980	03	24.7139537	03	07	00.174	20	06	29.46	115	0.908 du2

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1980	03	24.7161262	03	07	00.696	20	06	32.11	117	0.806	du2		
1980	03	24.7175463	03	07	01.094	20	06	33.87	117	0.879	du2		
1980	03	24.7190255	03	07	01.455	20	06	35.10	116	0.879	du2		
1980	03	24.7217662	03	07	02.175	20	06	39.02	123	1.060	zu1		
1980	03	24.7231898	03	07	02.494	20	06	40.99	126	1.017	zu1		
1980	03	24.7244363	03	07	02.802	20	06	41.82	123	1.082	zu1		
1980	03	24.7260104	03	07	03.234	20	06	44.60	130	1.162	zu1		
1980	03	24.7274144	03	07	03.568	20	06	46.20	124	1.090	zu1		
1980	03	24.7289051	03	07	03.980	20	06	48.32	115	0.973	zu1		
1980	03	24.7303206	03	07	04.310	20	06	49.88	122	1.060	zu1		
1980	03	25.6897928	03	11	08.102	20	27	13.85	122	1.000	du3		
1980	03	25.6923148	03	11	08.756	20	27	16.95	122	1.065	du3		
1980	03	25.6960556	03	11	09.698	20	27	21.73	126	1.174	du3		
1980	03	25.6983125	03	11	10.267	20	27	24.49	124	1.087	du3		
1980	03	25.7006435	03	11	10.868	20	27	27.75	123	1.080	du3		
1980	03	25.7042569	03	11	11.798	20	27	32.13	123	1.102	du2		
1980	03	25.7057824	03	11	12.152	20	27	33.99	116	1.015	du2		
1980	03	25.7070637	03	11	12.466	20	27	35.12	124	1.058	du2		
1980	03	25.7098403	03	11	13.170	20	27	38.89	128	1.109	du2		
1980	03	25.7106748	03	11	13.422	20	27	39.99	130	1.174	du2		
1980	03	25.7121308	03	11	13.750	20	27	42.25	121	0.971	du2		
1980	03	25.7136250	03	11	14.140	20	27	43.79	125	1.051	du2		
1980	03	25.7167917	03	11	14.914	20	27	47.51	120	1.160	zu1		
1980	03	25.7182894	03	11	15.310	20	27	49.63	132	1.210	zu1		
1980	03	25.7196273	03	11	15.662	20	27	51.15	133	1.239	zu1		
1980	03	25.7213565	03	11	16.136	20	27	53.69	123	1.029	zu1		
1980	03	25.7231412	03	11	16.536	20	27	55.71	124	1.160	zu1		
1980	03	25.7245671	03	11	16.919	20	27	57.51	123	1.102	zu1		
1980	03	25.7265150	03	11	17.388	20	28	59.91	124	1.196	zu1		
1980	03	25.7306227	03	11	18.416	20	28	05.17	118	0.957	du2		
1980	03	25.7325799	03	11	18.940	20	28	06.85	119	0.928	du2		
1980	03	25.7345324	03	11	19.420	20	28	09.33	107	0.848	du2		
1980	04	06.7114387	04	01	28.805	24	05	08.14	125	0.715	du3		
1980	04	06.7138704	04	01	29.401	24	05	10.10	123	0.701	du3		
1980	04	06.7162975	04	01	29.965	24	05	12.00	123	0.665	du3		
1980	04	06.7201111	04	01	30.933	24	05	15.46	123	0.615	du3		
1980	04	06.7224745	04	01	31.502	24	05	17.66	123	0.651	du3		
1980	04	06.7249028	04	01	32.085	24	05	19.96	122	0.686	du3		
1980	04	06.7281771	04	01	32.891	24	05	22.50	123	0.715	du2		
1980	04	06.7294144	04	01	33.208	24	05	23.66	126	0.658	du2		
1980	04	06.7307894	04	01	33.525	24	05	25.50	123	0.844	du2		
1980	04	06.7320532	04	01	33.863	24	05	26.56	115	0.529	du2		
1980	04	06.7332917	04	01	34.187	24	05	27.68	129	0.722	du2		
1980	04	06.7345914	04	01	34.455	24	05	29.03	124	0.772	du2		
1980	04	06.7358079	04	01	34.759	24	05	29.30	135	0.815	du2		
1980	04	06.7372477	04	01	35.142	24	05	31.22	123	0.701	du2		
1980	04	06.7384815	04	01	35.429	24	05	31.98	118	0.658	du2		
1980	04	06.7414352	04	01	36.181	24	05	34.76	131	0.791	zu1		
1980	04	06.7427176	04	01	36.469	24	05	36.08	123	0.751	zu1		
1980	04	06.7439988	04	01	36.783	24	05	36.44	123	0.772	zu1		
1980	04	06.7452500	04	01	37.157	24	05	37.71	137	0.858	zu1		
1980	04	06.7465000	04	01	37.456	24	05	39.12	126	0.901	zu1		

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1980	04	06.7477442	04	01	37.701	24	05	40.20	124	0.751	zu1
1980	04	07.7115324	04	05	35.313	24	19	57.17	130	0.885	du3
1980	04	07.7140081	04	05	35.931	24	19	58.85	133	0.871	du3
1980	04	07.7175532	04	05	36.773	24	20	01.92	129	0.792	du3
1980	04	07.7200127	04	05	37.379	24	20	04.53	131	0.871	du3
1980	04	07.7224931	04	05	37.990	24	20	06.52	133	0.871	du3
1980	04	07.7248970	04	05	38.570	24	20	08.22	131	0.871	du3
1980	04	07.7273611	04	05	39.195	24	20	10.96	130	0.828	du3
1980	04	07.7303947	04	05	39.933	24	20	13.29	132	0.857	du2
1980	04	07.7316632	04	05	40.240	24	20	14.14	132	0.828	du2
1980	04	07.7329398	04	05	40.557	24	20	15.86	140	0.885	du2
1980	04	07.7342164	04	05	40.881	24	20	16.04	134	0.949	du2
1980	04	07.7354838	04	05	41.218	24	20	17.24	134	0.928	du2
1980	04	07.7367720	04	05	41.515	24	20	18.96	132	0.928	du2
1980	04	07.7382269	04	05	41.901	24	20	20.44	134	0.942	du2
1980	04	07.7395301	04	05	42.213	24	20	21.62	128	0.842	du2
1980	04	07.7407847	04	05	42.535	24	20	21.68	134	0.828	du2
1980	04	07.7435799	04	05	43.151	24	20	24.66	139	1.157	zu1
1980	04	07.7447234	04	05	43.471	24	20	25.88	138	1.085	zu1
1980	04	07.7460683	04	05	43.785	24	20	26.74	133	1.035	zu1
1980	04	07.7473241	04	05	44.109	24	20	28.22	133	1.007	zu1
1980	04	07.7509942	04	05	44.997	24	20	31.25	144	1.142	zu1
1980	04	07.7523345	04	05	45.309	24	20	32.32	150	1.142	zu1
1980	04	07.7535509	04	05	45.633	24	20	33.00	134	1.035	zu1
1980	04	07.7547731	04	05	45.932	24	20	33.86	140	1.071	zu1
1980	04	08.7287199	04	09	44.891	24	34	28.66	133	0.787	du2
1980	04	08.7306146	04	09	45.361	24	34	30.56	132	0.772	du2
1980	04	08.7327153	04	09	45.851	24	34	31.81	133	0.766	du2
1980	04	08.7361505	04	09	46.699	24	34	34.84	133	0.715	du2
1980	04	08.7380810	04	09	47.149	24	34	36.84	133	0.815	du2
1980	04	08.7400556	04	09	47.652	24	34	38.48	136	0.815	du2
1980	04	08.7421458	04	09	48.136	24	34	40.05	140	0.873	du2
1980	04	08.7441551	04	09	48.669	24	34	41.40	133	0.794	du2
1980	04	08.7463079	04	09	49.190	24	34	43.60	132	0.787	du2
1980	04	12.7136528	04	25	49.750	25	26	06.33	143	0.812	du3
1980	04	12.7212188	04	25	51.577	25	26	11.85	137	0.812	du3
1980	04	12.7248819	04	25	52.476	25	26	13.83	142	0.869	du3
1980	04	12.7271493	04	25	52.991	25	26	15.74	140	0.776	du3
1980	04	12.7307431	04	25	53.831	25	26	17.95	142	0.783	du3
1980	04	12.7329861	04	25	54.387	25	26	20.14	138	0.797	du3
1980	04	12.7354873	04	25	54.971	25	26	21.61	138	0.762	du3
1980	04	12.7392280	04	25	55.857	25	26	24.35	142	0.819	du3
1980	04	12.7415127	04	25	56.415	25	26	26.21	138	0.783	du3
1980	04	12.7445197	04	25	57.158	25	26	27.91	142	0.847	du2
1980	04	12.7458264	04	25	57.431	25	26	28.09	148	0.940	du2
1980	04	12.7470799	04	25	57.702	25	26	29.27	143	0.983	du2
1980	04	12.7482477	04	25	57.991	25	26	30.02	143	0.968	du2
1980	04	12.7580995	04	26	00.354	25	26	37.63	145	0.926	du2
1980	04	12.7593032	04	26	00.613	25	26	37.86	140	0.926	du2
1980	04	12.7604745	04	26	00.901	25	26	39.09	138	0.783	du2
1980	04	12.7618889	04	26	01.277	25	26	40.23	146	0.954	du2
1980	04	12.7630822	04	26	01.561	25	26	40.37	143	0.840	du2

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1980	04	12.7643750	04	26	01.881	25	26	41.19	142	0.883	du2		
1980	04	14.7205810	04	33	46.367	25	48	53.68	139	0.719	du3		
1980	04	14.7264259	04	33	47.717	25	48	56.65	139	0.726	du3		
1980	04	14.7300289	04	33	48.559	25	48	59.17	142	0.740	du3		
1980	04	14.7325220	04	33	49.144	25	49	00.47	142	0.769	du3		
1980	04	14.7365787	04	33	50.080	25	49	03.23	142	0.776	du3		
1980	04	14.7403484	04	33	50.969	25	49	05.49	143	0.727	du2		
1980	04	14.7420289	04	33	51.385	25	49	07.07	142	0.776	du2		
1980	04	14.7432789	04	33	51.666	25	49	07.61	143	0.727	du2		
1980	04	14.7445104	04	33	51.964	25	49	08.34	139	0.598	du2		
1980	04	14.7457257	04	33	52.245	25	49	09.27	150	0.876	du2		
1980	04	14.7468843	04	33	52.505	25	49	10.00	142	0.755	du2		
1980	04	14.7512963	04	33	53.536	25	49	12.23	142	0.776	du2		
1980	04	14.7525162	04	33	53.864	25	49	13.28	146	0.855	du2		
1980	04	14.7537859	04	33	54.131	25	49	13.83	144	0.848	du2		
1980	04	14.7602894	04	33	55.687	25	49	18.65	144	0.769	du2		
1980	04	14.7615440	04	33	55.979	25	49	18.48	137	0.691	du2		
1980	04	14.7628796	04	33	56.277	25	49	19.39	133	0.812	du2		
1980	04	14.7641238	04	33	56.591	25	49	20.96	143	0.748	du2		
1980	04	14.7653773	04	33	56.859	25	49	21.47	147	0.840	du2		
1980	04	15.7328843	04	37	43.919	25	59	33.17	146	0.797	du2		
1980	04	15.7349676	04	37	44.376	25	59	34.53	144	0.662	du2		
1980	04	15.7377512	04	37	45.040	25	59	36.35	142	0.676	du2		
1980	04	15.7390220	04	37	45.331	25	59	36.48	142	0.947	du2		
1980	04	15.7435729	04	37	46.392	25	59	39.19	151	0.819	du2		
1980	04	15.7447465	04	37	46.661	25	59	39.87	150	0.812	du2		
1980	04	15.7461817	04	37	47.007	25	59	41.31	142	0.926	du2		
1980	04	15.7509606	04	37	48.091	25	59	44.15	150	0.812	du2		
1980	04	15.7526574	04	37	48.540	25	59	44.67	146	0.890	du2		
1980	04	15.7546968	04	37	48.988	25	59	46.51	150	0.748	du2		
1980	04	16.7263218	04	41	35.066	26	09	29.45	147	0.634	du2		
1980	04	16.7286968	04	41	35.616	26	09	30.85	146	0.726	du2		
1980	04	16.7328275	04	41	36.548	26	09	33.69	152	0.862	du2		
1980	04	16.7346516	04	41	37.012	26	09	34.29	147	0.776	du2		
1980	04	23.7330752	05	07	35.629	27	04	39.24	158	0.661	du3		
1980	04	23.7364699	05	07	36.332	27	04	40.39	155	0.683	du3		
1980	04	23.7401065	05	07	37.116	27	04	42.36	154	0.647	du3		
1980	04	23.7436435	05	07	37.840	27	04	43.01	151	0.661	du3		
1980	04	23.7460289	05	07	38.358	27	04	43.71	156	0.718	du3		
1980	04	23.7513611	05	07	39.466	27	04	45.19	166	0.963	zu1		
1980	04	23.7526296	05	07	39.798	27	04	46.02	159	0.848	zu1		
1980	04	23.7539444	05	07	40.039	27	04	46.86	164	0.920	zu1		
1980	04	23.7552419	05	07	40.328	27	04	46.59	168	1.006	zu1		
1980	04	23.7577523	05	07	40.854	27	04	47.29	159	0.862	du2		
1980	04	23.7590255	05	07	41.120	27	04	48.37	160	0.927	du2		
1980	04	23.7602755	05	07	41.394	27	04	48.30	159	1.006	du2		
1980	04	23.7615521	05	07	41.644	27	04	49.59	168	1.042	du2		
1980	04	24.7338125	05	11	06.586	27	10	25.51	162	0.712	du3		
1980	04	24.7372813	05	11	07.266	27	10	26.56	159	0.755	du3		
1980	04	24.7409201	05	11	08.068	27	10	28.30	160	0.777	du3		
1980	04	24.7446806	05	11	08.820	27	10	29.26	159	0.856	du3		
1980	04	24.7480428	05	11	09.522	27	10	30.47	159	0.805	du3		

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1980	04	24.7516215	05	11	10.270	27	10	31.38	165	0.755	du3		
1980	04	24.7541296	05	11	10.792	27	10	31.76	160	0.705	du3		
1980	04	24.7576400	05	11	11.553	27	10	33.26	160	0.784	du3		
1980	04	24.7600741	05	11	12.034	27	10	34.10	159	0.784	du3		
1980	04	24.7626019	05	11	12.562	27	10	34.98	167	0.769	du3		
1980	04	24.7659931	05	11	13.288	27	10	35.96	176	1.093	du2		
1980	04	24.7673715	05	11	13.562	27	10	36.20	167	0.899	du2		
1980	04	24.7686505	05	11	13.860	27	10	37.10	167	1.050	du2		
1980	04	24.7712731	05	11	14.414	27	10	37.40	167	1.028	du2		
1980	04	24.7749444	05	11	15.133	27	10	38.49	167	1.028	du2		
1980	04	24.7762187	05	11	15.412	27	10	39.27	177	1.050	du2		
1980	04	24.7775150	05	11	15.712	27	10	39.32	178	1.215	du2		
1980	04	24.7787523	05	11	15.956	27	10	39.91	168	0.906	du2		
1980	04	24.7800023	05	11	16.208	27	10	40.17	173	1.093	du2		
1980	04	28.7474907	05	24	35.302	27	28	27.66	171	0.482	du3		
1980	04	28.7530856	05	24	36.397	27	28	28.69	164	0.482	du3		
1980	04	28.7560625	05	24	36.966	27	28	28.82	168	0.446	du3		
1980	04	28.7599931	05	24	37.730	27	28	29.45	168	0.497	du3		
1980	04	28.7624317	05	24	38.194	27	28	30.14	166	0.394	du3		
1980	04	28.7648160	05	24	38.677	27	28	30.88	167	0.438	du3		
1980	04	28.7685405	05	24	39.394	27	28	31.37	178	0.650	du2		
1980	04	28.7713866	05	24	39.914	27	28	32.28	169	0.665	du2		
1980	04	28.7730208	05	24	40.228	27	28	32.20	178	0.716	du2		
1980	04	28.7746563	05	24	40.583	27	28	32.13	178	0.672	du2		
1980	04	28.7779931	05	24	41.221	27	28	32.65	172	0.753	du2		
1980	04	28.7798819	05	24	41.574	27	28	32.93	173	0.708	du2		
1980	04	28.7817350	05	24	41.923	27	28	33.57	172	0.679	du2		
1980	04	28.7832697	05	24	42.238	27	28	33.71	168	0.665	du2		
1980	04	28.7848391	05	24	42.512	27	28	34.25	173	0.716	du2		
1980	04	29.7588449	05	27	48.694	27	31	43.07	169	0.462	du2		
1980	04	29.7605752	05	27	49.013	27	31	43.17	164	0.396	du2		
1980	04	29.7623333	05	27	49.355	27	31	44.13	162	0.337	du2		
1980	04	29.7687731	05	27	50.558	27	31	44.42	169	0.498	du2		
1980	04	29.7704352	05	27	50.857	27	31	44.99	161	0.410	du2		
1980	04	29.7720926	05	27	51.192	27	31	45.15	169	0.388	du2		
1980	04	29.7753241	05	27	51.825	27	31	45.44	169	0.403	du2		
1980	04	29.7769340	05	27	52.112	27	31	45.99	152	0.315	du2		
1980	04	29.7785845	05	27	52.423	27	31	46.87	168	0.366	du2		
1980	04	29.7801273	05	27	52.697	27	31	46.04	151	0.293	du2		
1980	04	29.7817292	05	27	52.991	27	31	46.50	165	0.381	du2		
1980	05	06.7524711	05	47	47.795	27	41	03.46	194	0.604	du3		
1980	05	06.7562373	05	47	48.365	27	41	03.36	190	0.658	du3		
1980	05	06.7587581	05	47	48.746	27	41	03.53	190	0.535	du3		
1980	05	06.7701030	05	47	50.485	27	41	02.95	203	0.772	du2		
1980	05	06.7714838	05	47	50.693	27	41	02.39	203	0.757	du2		
1980	05	06.7728843	05	47	50.900	27	41	02.27	190	0.635	du2		
1980	05	06.7781968	05	47	51.771	27	41	01.75	196	0.650	du2		
1980	05	06.7796806	05	47	51.939	27	41	02.03	196	0.627	du2		
1980	05	06.7809271	05	47	52.143	27	41	02.24	205	0.765	du2		
1980	05	06.7822650	05	47	52.342	27	41	02.48	203	0.734	du2		
1980	05	06.7835289	05	47	52.523	27	41	02.34	196	0.620	du2		
1980	05	06.7859352	05	47	52.917	27	41	02.20	196	0.650	du2		

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1980	05	06.7870255	05	47	53.069	27	41	01.74	197	0.811	du2	
1980	05	06.7885961	05	47	53.318	27	41	02.14	194	0.642	du2	
1980	08	21.0371620	06	53	47.505	19	30	56.61	156	1.708	du2	
1980	08	21.0400012	06	53	48.231	19	30	56.55	136	1.060	du3	
1980	08	21.0443692	06	53	49.250	19	30	56.51	133	0.808	du3	
1980	08	21.0464884	06	53	49.752	19	30	56.79	139	1.026	du3	
1980	08	21.0503125	06	53	50.643	19	30	56.13	128	0.850	du3	
1980	08	21.0539259	06	53	51.537	19	30	56.35	133	1.001	du3	
1980	08	21.0574317	06	53	52.369	19	30	56.43	133	1.010	du3	
1980	08	21.0650359	06	53	54.177	19	30	55.97	133	1.077	du3	
1980	08	21.0684838	06	53	54.976	19	30	56.07	139	0.808	du3	
1980	08	28.0356331	07	22	15.978	19	18	05.66	130	1.251	du3	
1980	08	28.0380509	07	22	16.530	19	18	04.72	134	1.168	du3	
1980	08	28.0401030	07	22	17.074	19	18	04.69	135	1.201	du3	
1980	08	28.0491690	07	22	19.332	19	18	02.37	141	1.385	du2	
1980	08	28.0503206	07	22	19.622	19	18	02.49	137	1.251	du2	
1980	08	28.0556227	07	22	20.936	19	18	02.13	132	1.168	du3	
1980	08	28.0578333	07	22	21.504	19	18	01.03	131	1.118	du3	
1980	08	28.0598727	07	22	21.999	19	18	00.79	133	1.151	du3	
1980	08	28.0634444	07	22	22.922	19	18	00.27	133	1.235	du3	
1980	08	28.0652894	07	22	23.372	19	17	59.97	130	1.085	du3	
1980	08	28.0672118	07	22	23.872	19	17	59.73	130	1.210	du3	
1980	08	28.0705602	07	22	24.676	19	17	59.09	131	1.235	du3	
1980	08	28.0725509	07	22	25.196	19	17	58.59	127	1.193	du3	
1980	08	28.0758738	07	22	26.016	19	17	58.43	133	1.201	du3	
1980	08	28.0792523	07	22	26.846	19	17	57.69	130	1.110	du3	
1980	09	06.0447940	08	00	45.897	18	29	38.66	106	0.746	du2	
1980	09	06.0463484	08	00	46.330	18	29	37.67	105	0.787	du2	
1980	09	06.0500602	08	00	47.273	18	29	36.19	107	0.829	du2	
1980	09	06.0519803	08	00	47.780	18	29	34.59	106	0.804	du2	
1980	09	06.0555185	08	00	48.702	18	29	33.79	108	0.787	du2	
1980	09	06.0578067	08	00	49.292	18	29	32.22	101	0.895	du2	
1980	09	06.0611285	08	00	50.196	18	29	31.09	106	0.738	du2	
1980	09	06.0627442	08	00	50.582	18	29	30.43	115	0.928	du2	
1980	09	06.0665104	08	00	51.556	18	29	28.45	106	0.878	du2	
1980	09	06.0685370	08	00	52.076	18	29	27.33	115	0.995	du2	
1980	09	10.0468009	08	18	18.966	17	55	43.41	114	1.185	du2	
1980	09	10.0483322	08	18	19.371	17	55	42.55	113	1.144	du2	
1980	09	10.0535139	08	18	20.727	17	55	40.25	107	1.136	du2	
1980	09	10.0553414	08	18	21.207	17	55	38.61	113	1.019	du2	
1980	09	10.0568299	08	18	21.601	17	55	38.19	114	1.053	du2	
1980	09	10.0584398	08	18	22.069	17	55	37.27	114	1.102	du2	
1980	09	10.0598669	08	18	22.431	17	55	35.89	106	1.069	du2	
1980	09	10.0614109	08	18	22.843	17	55	35.65	110	1.053	du2	
1980	09	10.0650000	08	18	23.779	17	55	33.33	110	0.961	du3	
1980	09	10.0676100	08	18	24.479	17	55	32.24	105	1.028	du3	
1980	09	10.0706007	08	18	25.271	17	55	30.53	101	0.945	du3	
1980	09	10.0744398	08	18	26.269	17	55	28.33	110	0.995	du2	
1980	09	10.0761447	08	18	26.703	17	55	27.59	115	1.094	du2	
1980	09	10.0862500	08	18	29.411	17	55	21.71	113	1.061	du3	
1980	09	10.0886620	08	18	30.063	17	55	19.81	111	1.077	du3	
1980	09	10.0931042	08	18	31.213	17	55	18.07	110	0.986	du3	

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1980	09	11.0473252	08	22	44.043	17	46	01.49	105	0.837	du2	
1980	09	11.0502882	08	22	44.854	17	45	59.99	100	0.845	du2	
1980	09	11.0531366	08	22	45.620	17	45	58.07	98	0.829	du2	
1980	09	11.0559722	08	22	46.343	17	45	56.42	105	0.820	du2	
1980	09	11.0605012	08	22	47.533	17	45	54.57	105	0.937	du2	
1980	09	11.0632546	08	22	48.268	17	45	52.71	101	0.796	du2	
1980	09	11.0661262	08	22	49.044	17	45	51.39	105	0.870	du2	
1980	09	11.0688993	08	22	49.741	17	45	48.89	103	0.812	du2	
1980	09	11.0736447	08	22	50.990	17	45	47.12	106	0.853	du2	
1980	09	11.0763634	08	22	51.725	17	45	44.97	105	0.978	du2	
1980	09	11.0789769	08	22	52.412	17	45	43.79	105	0.912	du2	
1980	09	11.0850556	08	22	54.025	17	45	40.18	103	0.887	du2	
1980	09	19.0560405	08	58	23.229	16	11	00.71	105	1.091	zu1	
1980	09	19.0575660	08	58	23.651	16	10	59.38	106	1.140	zu1	
1980	09	19.0591597	08	58	24.094	16	10	58.13	107	1.082	zu1	
1980	09	19.0609977	08	58	24.589	16	10	56.37	106	1.033	zu1	
1980	09	19.0626586	08	58	25.005	16	10	55.44	106	1.033	zu1	
1980	09	19.0722743	08	58	27.594	16	10	47.27	106	0.917	du2	
1980	09	19.0771563	08	58	28.899	16	10	43.90	113	1.157	du2	
1980	09	19.0804630	08	58	29.782	16	10	40.55	106	1.091	du2	
1980	09	19.0819618	08	58	30.225	16	10	39.67	96	0.851	du2	
1980	09	19.0871574	08	58	31.615	16	10	35.12	96	0.810	du2	
1980	09	19.0887905	08	58	32.051	16	10	33.81	95	0.942	du2	
1980	09	19.0901516	08	58	32.409	16	10	32.30	97	1.025	du2	
1980	09	19.0933194	08	58	33.249	16	10	30.26	97	0.810	du3	
1980	09	19.0960278	08	58	33.961	16	10	27.83	96	0.892	du3	
1980	09	19.0986806	08	58	34.673	16	10	25.96	96	0.843	du3	
1980	09	27.0529340	09	34	15.250	14	06	09.12	106	1.148	zu1	
1980	09	27.0547859	09	34	15.771	14	06	07.26	108	1.264	zu1	
1980	09	27.0570637	09	34	16.391	14	06	03.52	94	0.975	zu1	
1980	09	27.0588993	09	34	16.883	14	06	03.21	102	1.115	zu1	
1980	09	27.0606898	09	34	17.338	14	06	01.23	103	1.198	zu1	
1980	09	27.0639282	09	34	18.181	14	05	57.03	96	1.091	zu1	
1980	09	27.0655139	09	34	18.647	14	05	55.67	106	1.157	zu1	
1980	09	27.0667500	09	34	18.991	14	05	54.47	106	1.256	zu1	
1980	09	27.0714039	09	34	20.219	14	05	49.63	96	0.876	zu1	
1980	09	27.0801771	09	34	22.571	14	05	40.54	96	0.867	zu1	
1980	09	27.0815174	09	34	22.924	14	05	39.67	96	0.876	zu1	
1980	09	27.0828299	09	34	23.286	14	05	37.73	106	0.991	zu1	
1980	09	27.0842604	09	34	23.681	14	05	36.85	106	0.934	zu1	
1980	09	27.0873438	09	34	24.525	14	05	32.56	101	1.165	du2	
1980	09	27.0887685	09	34	24.926	14	05	30.62	106	1.281	du2	
1980	09	27.0902130	09	34	25.313	14	05	29.61	93	1.108	du2	
1980	09	27.0915949	09	34	25.697	14	05	28.12	103	1.173	du2	
1980	09	27.0929398	09	34	26.023	14	05	26.45	108	1.289	du2	
1980	09	27.0943287	09	34	26.417	14	05	26.26	104	1.206	du2	
1980	09	27.0972280	09	34	27.180	14	05	22.00	97	1.041	du2	
1980	09	27.0985185	09	34	27.495	14	05	21.57	100	1.157	du2	
1980	09	27.0999410	09	34	27.875	14	05	20.31	105	1.218	du2	
1980	09	27.1011076	09	34	28.259	14	05	18.49	96	0.917	du2	
1980	09	27.1024363	09	34	28.591	14	05	16.95	105	1.124	du2	
1980	09	27.1066042	09	34	29.693	14	05	13.23	108	1.140	du3	

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1980	09	27.1094051	09	34	30.468	14	05	10.05	101	1.066 du3
1980	09	27.1118912	09	34	31.159	14	05	07.23	102	1.091 du3
1980	09	27.1156319	09	34	32.129	14	55	03.83	101	1.146 du3
1980	10	12.0988449	10	41	41.046	8	59	38.25	106	1.222 zu1
1980	10	12.1003993	10	41	41.458	8	59	35.46	110	1.494 zu1
1980	10	12.1016481	10	41	41.800	8	59	34.60	105	1.387 zu1
1980	10	12.1031019	10	41	42.167	8	59	32.68	105	1.387 zu1
1980	10	12.1059456	10	41	42.912	8	59	28.26	103	1.280 zu1
1980	10	12.1078762	10	41	43.462	8	59	25.08	106	1.453 zu1
1980	10	12.1091725	10	41	43.810	8	59	23.71	106	1.420 zu1
1980	10	12.1108299	10	41	44.234	8	59	21.22	103	1.404 zu1
1980	10	12.1123241	10	41	44.631	8	59	19.20	106	1.445 zu1
1980	10	12.1138299	10	41	45.046	8	59	17.08	106	1.437 zu1
1980	10	12.1173877	10	41	46.022	8	59	12.82	92	1.271 du2
1980	10	12.1192384	10	41	46.526	8	59	09.84	93	1.255 du2
1980	10	13.0734225	10	46	02.118	8	37	01.91	100	1.354 zu1
1980	10	13.0753831	10	46	02.656	8	36	59.50	95	1.230 zu1
1980	10	13.0773565	10	46	03.168	8	36	56.50	102	1.486 zu1
1980	10	13.0790104	10	46	03.612	8	36	54.26	100	1.370 zu1
1980	10	13.0803484	10	46	03.983	8	36	52.88	107	1.519 zu1
1980	10	13.0817627	10	46	04.364	8	36	50.27	106	1.403 zu1
1980	10	13.0854826	10	46	05.332	8	36	45.94	95	1.403 zu1
1980	10	13.0882755	10	46	06.111	8	36	41.99	95	1.304 zu1
1980	10	13.0902708	10	46	06.626	8	36	38.52	96	1.321 zu1
1980	10	13.0915938	10	46	06.976	8	36	36.91	95	1.362 zu1
1980	10	13.0931678	10	46	07.388	8	36	34.54	98	1.304 zu1
1980	10	13.0946505	10	46	07.770	8	36	32.50	102	1.453 zu1
1980	10	13.0962141	10	46	08.208	8	36	30.20	94	1.255 zu1
1980	10	13.0996354	10	46	09.148	8	36	25.44	91	1.073 du2
1980	10	13.1011285	10	46	09.548	8	36	23.11	87	0.933 du2
1980	10	13.1025231	10	46	09.912	8	36	21.24	97	1.188 du2
1980	10	13.1039745	10	46	10.266	8	36	19.75	96	1.089 du2
1980	10	13.1054074	10	46	10.693	8	36	17.68	86	0.990 du2
1980	10	13.1073981	10	46	11.232	8	36	14.96	87	1.023 du2
1980	10	13.1089826	10	46	11.636	8	36	12.52	86	1.139 du2
1980	10	13.1118773	10	46	12.396	8	36	09.06	93	1.048 du2
1980	10	13.1133183	10	46	12.811	8	36	06.92	96	1.271 du2
1980	10	13.1170394	10	46	13.762	8	36	01.96	103	1.304 du2
1980	10	13.1185938	10	46	14.202	8	35	59.24	92	1.056 du2
1980	10	13.1204317	10	46	14.687	8	35	56.58	84	1.205 du2
1980	10	14.0710532	10	50	29.199	8	13	38.10	103	1.353 zu1
1980	10	14.0770926	10	50	30.797	8	13	28.88	104	1.394 zu1
1980	10	14.0784144	10	50	31.179	8	13	27.28	104	1.394 zu1
1980	10	14.0801620	10	50	31.653	8	13	24.74	96	1.337 zu1
1980	10	14.1047350	10	50	38.195	8	12	49.79	85	1.155 du2
1980	10	14.1063727	10	50	38.669	8	12	47.66	92	1.180 du2
1980	10	14.1077141	10	50	39.003	8	12	45.72	86	1.056 du2
1980	10	14.1093530	10	50	39.462	8	12	43.10	95	1.254 du2
1980	10	14.1108831	10	50	39.858	8	12	41.78	92	1.188 du2
1980	10	14.1121447	10	50	40.195	8	12	39.29	85	1.023 du2
1980	10	14.1134306	10	50	40.517	8	12	37.56	86	0.982 du2
1980	10	14.1165995	10	50	41.394	8	12	33.48	98	1.312 du2

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1980	10	14.1179595	10	50	41.756	8	12	31.00	96 1.394 du2
1980	10	14.1195995	10	50	42.177	8	12	28.53	85 1.130 du2
1980	10	14.1209560	10	50	42.531	8	12	27.42	89 1.130 zu1
1980	10	14.1223958	10	50	42.904	8	12	25.51	102 1.370 zu1
1980	10	14.1237419	10	50	43.245	8	12	22.82	100 1.370 zu1
1980	10	14.1282396	10	50	44.507	8	12	16.27	90 1.122 du3
1980	10	15.0771192	10	54	58.410	7	49	43.16	83 0.990 zu1
1980	10	15.0793484	10	54	58.991	7	49	40.17	82 0.866 zu1
1980	10	15.0811412	10	54	59.473	7	49	37.96	85 1.138 zu1
1980	10	15.0826250	10	54	59.875	7	49	35.87	85 1.006 zu1
1980	10	15.0871991	10	55	01.102	7	49	28.96	78 0.940 zu1
1980	10	15.0887106	10	55	01.477	7	49	27.62	84 1.023 zu1
1980	10	15.0904537	10	55	01.992	7	49	24.64	92 1.204 zu1
1980	10	15.1078438	10	55	06.607	7	48	59.30	76 0.866 zu1
1980	10	15.1105023	10	55	07.310	7	48	55.72	88 0.907 zu1
1980	10	18.0751400	11	08	19.934	6	36	51.53	73 0.809 zu1
1980	10	18.0756019	11	08	20.074	6	36	50.68	73 0.842 zu1
1980	10	18.0771030	11	08	20.469	6	36	49.43	73 0.759 zu1
1980	10	18.0784688	11	08	20.821	6	36	47.37	84 0.875 zu1
1980	10	18.0808715	11	08	21.467	6	36	43.10	73 0.817 zu1
1980	10	18.0864676	11	08	22.963	6	36	35.17	72 0.611 du2
1980	10	18.0878403	11	08	23.319	6	36	33.63	77 0.809 du2
1980	10	18.0894329	11	08	23.749	6	36	31.26	68 0.817 du2
1980	10	18.0908681	11	08	24.152	6	36	29.19	73 0.784 du2
1980	10	18.0923958	11	08	24.527	6	36	26.88	73 0.743 du2
1980	10	18.0940185	11	08	24.989	6	36	23.35	75 0.842 du2
1980	10	18.0956123	11	08	25.413	6	36	21.19	71 0.743 du2
1980	10	18.0970914	11	08	25.799	6	36	18.69	78 0.900 du2
1980	10	18.1003044	11	08	26.665	6	36	15.31	80 0.925 du2
1980	10	18.1018727	11	08	27.042	6	36	12.24	82 0.900 du2
1980	10	18.1035000	11	08	27.469	6	36	09.59	84 0.958 du2
1980	10	18.1051366	11	08	27.919	6	36	07.31	72 0.842 du2
1980	10	18.1066620	11	08	28.347	6	36	05.85	80 0.908 du2
1980	10	18.1081829	11	08	28.757	6	36	03.45	79 0.925 du2
1980	10	18.1097963	11	08	29.187	6	36	00.37	89 1.057 du2
1980	10	18.1135417	11	08	30.197	6	35	54.59	73 0.792 du2
1980	10	18.1152257	11	08	30.637	6	35	52.73	69 0.784 du2
1980	10	18.1165752	11	08	30.995	6	35	50.21	75 0.784 du2
1980	10	18.1180417	11	08	31.380	6	35	47.87	78 0.883 du2
1980	10	18.1194294	11	08	31.741	6	35	45.92	84 1.032 du2
1980	10	18.1239560	11	08	32.963	6	35	40.18	72 0.792 du2
1980	10	18.1260058	11	08	33.473	6	35	35.85	73 0.925 du2
1980	10	18.1273889	11	08	33.847	6	35	34.52	86 0.966 du2
1980	10	18.1309549	11	08	34.803	6	35	29.37	73 0.809 du3
1980	10	18.1336505	11	08	35.545	6	35	25.01	75 0.817 du3
1980	10	18.1361597	11	08	36.215	6	35	21.32	73 0.776 du3
1980	10	18.1386273	11	08	36.867	6	35	18.29	74 0.792 du3
1980	10	20.1139861	11	17	24.488	5	46	01.65	76 1.304 zu1
1980	10	20.1167558	11	17	25.238	5	45	57.20	83 1.156 zu1
1980	10	20.1202384	11	17	26.150	5	45	52.42	75 1.090 zu1
1980	10	20.1222963	11	17	26.706	5	45	49.07	96 1.321 zu1
1980	10	20.1244259	11	17	27.264	5	45	45.81	95 1.329 zu1

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1980	10	24.0842824	11	35	04.617	4	04	24.97	66	0.779	zu1		
1980	10	24.0859931	11	35	05.083	4	04	21.80	73	0.828	zu1		
1980	10	24.0880972	11	35	05.625	4	04	18.64	73	0.870	zu1		
1980	10	24.0894583	11	35	05.978	4	04	16.49	73	0.895	zu1		
1980	10	24.0913032	11	35	06.498	4	04	14.08	74	0.936	zu1		
1980	10	24.0939120	11	35	07.185	4	04	09.86	75	1.036	zu1		
1980	10	24.0955752	11	35	07.630	4	04	07.39	74	0.928	zu1		
1980	10	24.0972963	11	35	08.082	4	04	04.36	77	1.019	zu1		
1980	10	24.0995440	11	35	08.691	4	04	01.10	83	1.102	zu1		
1980	10	24.1073380	11	35	10.810	4	03	48.85	70	0.853	du2		
1980	10	24.1091505	11	35	11.275	4	03	45.85	72	0.862	du2		
1980	10	24.1105544	11	35	11.639	4	03	43.27	73	0.663	du2		
1980	10	24.1121030	11	35	12.063	4	03	40.91	70	0.812	du2		
1980	10	24.1135856	11	35	12.464	4	03	39.12	79	0.961	du2		
1980	10	24.1152870	11	35	12.909	4	03	36.03	85	1.060	du2		
1980	10	24.1167396	11	35	13.270	4	03	33.87	84	1.052	du2		
1980	10	24.1191065	11	35	13.939	4	03	30.12	80	0.812	du2		
1980	10	24.1203611	11	35	14.263	4	03	28.16	74	0.762	du2		
1980	10	24.1215891	11	35	14.578	4	03	26.33	80	0.787	du2		
1980	10	24.1259792	11	35	15.773	4	03	19.27	72	0.754	du2		
1980	10	24.1271181	11	35	16.055	4	03	17.61	83	0.845	du2		
1980	10	24.1282650	11	35	16.385	4	03	16.13	71	0.746	du2		
1980	10	24.1297558	11	35	16.755	4	03	13.41	66	0.721	du2		
1980	10	24.1327894	11	35	17.569	4	03	08.87	85	1.019	du3		
1980	10	24.1356424	11	35	18.345	4	03	04.41	82	0.986	du3		
1980	10	24.1382778	11	35	19.035	4	03	00.33	77	0.978	du3		
1980	10	24.1409491	11	35	19.760	4	02	56.67	79	0.944	du3		
1980	10	24.1497650	11	35	22.071	4	02	42.24	78	0.961	du3		
1980	10	28.0989294	11	52	57.169	2	18	42.15	100	1.451	du2		
1980	10	28.0997049	11	52	57.384	2	18	40.91	82	1.095	du2		
1980	10	28.1012315	11	52	57.766	2	18	37.63	90	1.244	du2		
1980	10	28.1032488	11	52	58.308	2	18	34.69	97	1.410	du2		
1980	10	28.1046539	11	52	58.694	2	18	32.27	100	1.501	du2		
1980	10	28.1104271	11	53	00.240	2	18	22.94	96	1.410	du2		
1980	10	28.1112292	11	53	00.416	2	18	21.66	98	1.385	du2		
1980	10	28.1132870	11	53	01.000	2	18	18.54	108	1.393	du2		
1980	10	28.1321215	11	53	06.002	2	17	48.87	106	1.393	du2		
1980	10	28.1333970	11	53	06.334	2	17	47.03	100	1.360	du2		
1980	10	28.1345775	11	53	06.633	2	17	44.65	103	1.310	du2		
1980	10	28.1360255	11	53	07.040	2	17	42.72	102	1.393	du2		
1980	10	28.1375590	11	53	07.440	2	17	40.53	106	1.518	du2		
1980	10	28.1389120	11	53	07.836	2	17	37.67	97	1.468	du2		
1980	10	28.1423819	11	53	08.749	2	17	32.33	106	1.592	du2		
1980	10	28.1434630	11	53	09.060	2	17	30.67	96	1.426	du2		
1980	10	28.1446597	11	53	09.362	2	17	29.21	96	1.393	du2		
1980	11	03.1321701	12	19	53.341	0	24	11.42	85	1.119	du2		
1980	11	03.1332569	12	19	53.639	0	24	12.14	86	1.052	du2		
1980	11	03.1344780	12	19	53.967	0	24	14.14	83	1.119	du2		
1980	11	03.1360035	12	19	54.367	0	24	16.70	80	1.035	du2		
1980	11	03.1371389	12	19	54.687	0	24	18.08	77	1.018	du2		
1980	11	03.1384190	12	19	55.020	0	24	21.36	75	0.960	du2		
1980	11	03.1396968	12	19	55.379	0	24	23.58	71	0.977	du2		

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1980	11	03.1425069	12	19	56.120	0	24	28.02	76	1.018 du2
1980	11	03.1439861	12	19	56.513	0	24	29.36	80	1.060 du2
1980	11	03.1451134	12	19	56.805	0	24	31.30	85	1.152 du2
1980	11	03.1462731	12	19	57.149	0	24	34.22	72	1.002 du2
1980	11	03.1473981	12	19	57.396	0	24	35.54	86	1.152 du2
1980	11	03.1491551	12	19	57.857	0	24	39.14	75	1.069 du2
1980	11	03.1498750	12	19	58.075	0	24	39.82	85	1.169 du2
1980	11	04.1063623	12	24	15.100	0	50	46.49	102	1.455 du2
1980	11	04.1080289	12	24	15.584	0	50	50.00	98	1.338 du2
1980	11	04.1120174	12	24	16.645	0	50	56.86	86	1.154 du2
1980	11	04.1423924	12	24	24.772	0	51	46.28	99	1.430 du2
1980	11	04.1442280	12	24	25.264	0	51	49.37	92	1.338 du2
1980	11	04.1461435	12	24	25.795	0	51	52.56	96	1.405 du2
1980	11	04.1520127	12	24	27.352	0	52	01.56	102	1.455 du2
1980	11	04.1533090	12	24	27.699	0	52	03.95	98	1.464 du2
1980	11	04.1542083	12	24	27.943	0	52	04.98	96	1.439 du2
1983	03	31.6997442	02	49	32.911	16	58	55.95	69	0.839 du2
1983	03	31.7016829	02	49	33.329	16	58	58.93	61	0.848 du2
1983	03	31.7102245	02	49	35.849	16	59	10.93	65	0.780 du2
1983	03	31.7118079	02	49	36.287	16	59	13.43	59	0.655 du2
1983	03	31.7138831	02	49	36.851	16	59	16.54	52	0.613 du2
1983	04	04.7177792	03	08	38.075	18	32	45.03	76	1.003 du2
1983	04	04.7200385	03	08	38.681	18	32	47.63	70	0.953 du2
1983	04	04.7225073	03	08	39.408	18	32	51.37	71	0.936 du2
1983	04	04.7248748	03	08	40.094	18	32	54.89	73	0.936 du2
1983	04	05.7122874	03	13	23.722	18	54	51.58	79	1.084 du2
1983	04	05.7135069	03	13	24.078	18	54	52.69	65	0.867 du2
1983	04	05.7221440	03	13	26.567	18	55	04.29	70	0.867 du2
1983	04	11.7147731	03	42	26.758	20	58	01.57	86	1.127 du2
1983	04	11.7179277	03	42	27.656	20	58	05.05	90	1.185 du2
1983	04	11.7195101	03	42	28.147	20	58	06.84	85	1.060 du2
1983	04	11.7240907	03	42	29.478	20	58	11.88	85	1.127 du2
1983	04	11.7258177	03	42	29.957	20	58	13.71	93	1.234 du2
1983	04	11.7284854	03	42	30.768	20	58	16.88	82	1.135 du2
1983	04	11.7301198	03	42	31.262	20	58	18.50	83	1.160 du2
1983	04	11.7319081	03	42	31.733	20	58	20.94	80	1.102 du2
1983	04	11.7338617	03	42	32.347	20	58	23.11	86	1.118 du2
1983	04	11.7373573	03	42	33.385	20	58	27.00	80	1.110 du2
1983	04	11.7392251	03	42	33.907	20	58	28.85	83	1.094 du2
1983	04	11.7415529	03	42	34.561	20	58	31.87	69	0.787 du2
1983	04	28.7412515	05	07	11.263	24	56	24.22	84	0.962 du3
1983	04	28.7458131	05	07	12.665	24	56	26.47	87	1.026 du3
1983	04	28.7529234	05	07	14.806	24	56	30.36	87	1.123 du2
1983	04	28.7548116	05	07	15.377	24	56	31.33	85	1.067 du2
1983	04	28.7568516	05	07	15.981	24	56	32.02	86	1.010 du2
1983	04	28.7601734	05	07	17.017	24	56	33.92	86	1.026 du2
1983	04	28.7621269	05	07	17.586	24	56	35.19	88	1.139 du2
1983	04	28.7641076	05	07	18.175	24	56	36.02	80	0.905 du2
1983	04	28.7662123	05	07	18.797	24	56	36.81	86	0.978 du2
1983	04	28.7681359	05	07	19.374	24	56	37.96	82	0.905 du2
1983	05	17.7749403	06	42	12.607	25	39	58.83	94	1.015 du2
1983	05	17.7769488	06	42	13.189	25	39	58.21	100	1.078 du2

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1983	05	17.7806832	06	42	14.253	25	39	57.77	90 0.928 du2
1983	05	17.7829194	06	42	14.907	25	39	56.67	92 0.952 du2
1983	05	17.7852060	06	42	15.605	25	39	56.38	93 1.007 du2
1983	05	17.7887990	06	42	16.648	25	39	55.68	94 0.976 du2
1983	05	17.7907764	06	42	17.222	25	39	54.53	96 0.944 du2
1983	05	17.7930704	06	42	17.879	25	39	54.41	90 0.818 du2
1983	05	17.7950575	06	42	18.495	25	39	53.79	89 0.810 du2
1983	05	21.7834789	07	01	34.932	25	18	46.32	111 1.063 du2
1983	05	21.7930589	07	01	37.655	25	18	42.36	99 0.891 du2
1983	05	21.7969046	07	01	38.780	25	18	40.78	88 0.821 du2
1983	05	21.7993319	07	01	39.482	25	18	39.92	101 0.993 du2
1983	05	27.8079676	07	29	55.138	24	28	29.76	113 0.932 du2
1983	05	27.8098796	07	29	55.657	24	28	28.85	100 0.886 du2
1983	05	27.8117407	07	29	56.171	24	28	27.68	96 0.870 du2
1983	09	21.0869063	09	37	24.432	8	00	49.24	249 1.021 du2
1983	09	21.0885556	09	37	24.526	8	00	50.21	249 1.247 du2
1983	09	21.1006334	09	37	25.257	8	00	55.18	233 1.097 du2
1983	09	22.0862674	09	38	27.939	8	06	35.78	239 0.816 du2
1983	09	22.0880694	09	38	28.059	8	06	36.23	235 0.889 du2
1983	09	22.0930196	09	38	28.368	8	06	38.10	235 0.931 du2
1983	09	22.0946969	09	38	28.501	8	06	38.68	245 0.983 du2
1983	09	22.1009964	09	38	28.901	8	06	40.52	245 1.025 du3
1983	09	23.0859795	09	39	39.365	8	11	42.64	233 1.014 du2
1983	09	23.0876779	09	39	39.487	8	11	42.74	236 1.216 du2
1983	09	23.0895972	09	39	39.657	8	11	43.66	263 1.521 du2
1983	09	23.0959191	09	39	40.119	8	11	45.46	255 1.389 du2
1983	09	23.1013094	09	39	40.499	8	11	47.52	244 1.257 du2
1983	09	23.1044991	09	39	40.733	8	11	48.62	250 1.247 du2
1983	09	29.0936957	09	49	21.662	8	28	26.21	208 0.855 du2
1983	09	29.0950339	09	49	21.780	8	28	26.60	225 0.890 du2
1983	09	29.1049843	09	49	22.938	8	28	27.26	225 0.890 du2
1983	09	29.1061168	09	49	23.063	8	28	26.99	219 0.961 du2
1983	09	29.1090992	09	49	23.415	8	28	27.62	228 1.005 du2
1983	09	29.1109882	09	49	23.627	8	28	27.31	226 1.040 du2
1983	10	01.0783826	09	53	25.748	8	28	38.10	213 0.880 du2
1983	10	01.0797543	09	53	25.888	8	28	37.58	217 0.974 du2
1983	10	01.0812019	09	53	26.124	8	28	37.74	217 1.017 du2
1983	10	01.0826417	09	53	26.306	8	28	37.74	221 1.026 du2
1983	10	01.0885266	09	53	27.064	8	28	37.42	212 0.940 du2
1983	10	01.1023854	09	53	28.819	8	28	36.80	241 1.282 du2
1983	10	01.1056319	09	53	29.235	8	28	37.42	228 1.376 du2
1983	10	01.1081244	09	53	29.544	8	28	37.22	216 0.915 du2
1983	10	07.1063241	10	07	57.102	8	13	17.40	206 1.146 du2
1983	10	07.1075868	10	07	57.300	8	13	16.75	195 1.051 du2
1983	10	07.1089201	10	07	57.524	8	13	17.00	212 1.226 du2
1983	10	07.1101713	10	07	57.715	8	13	16.82	200 1.051 du2
1983	10	07.1126887	10	07	58.084	8	13	15.90	196 1.218 du2
1983	10	07.1140116	10	07	58.300	8	13	15.48	202 1.353 du2
1983	10	07.1152269	10	07	58.486	8	13	14.95	192 1.202 du2
1983	10	07.1177118	10	07	58.898	8	13	14.00	212 1.401 du2
1983	10	07.1190880	10	07	59.122	8	13	14.03	200 1.186 du2
1983	10	07.1202847	10	07	59.312	8	13	13.16	196 1.130 du2

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1983	10	07.1229387	10	07	59.726	8	13	12.55	192	1.082	du2
1983	10	07.1240278	10	07	59.906	8	13	12.69	200	1.250	du2
1983	10	30.1142328	11	22	56.581	4	00	13.02	142	0.848	du2
1983	10	30.1161737	11	22	56.986	4	00	11.16	150	0.980	du2
1983	10	30.1174422	11	22	57.271	4	00	09.67	148	1.126	du2
1983	10	30.1187052	11	22	57.532	4	00	08.61	138	0.833	du2
1983	10	30.1199819	11	22	57.826	4	00	07.58	149	1.002	du2
1983	10	30.1213300	11	22	58.124	4	00	06.35	144	1.045	du2
1983	10	30.1240839	11	22	58.735	4	00	03.03	150	1.045	du2
1983	10	30.1260721	11	22	59.168	4	00	01.21	149	1.038	du2
1983	10	30.1273999	11	22	59.437	4	00	00.37	140	0.907	du2
1983	10	30.1287310	11	22	59.761	3	59	58.69	149	1.002	du2
1983	10	30.1300644	11	23	00.052	3	59	57.15	148	1.053	du2
1983	10	30.1313485	11	23	00.329	3	59	56.59	151	1.111	du2
1983	10	30.1339676	11	23	00.912	3	59	54.01	148	1.038	du2
1983	10	30.1352442	11	23	01.179	3	59	52.18	144	0.950	du2
1983	10	30.1365120	11	23	01.472	3	59	50.95	151	1.045	du2
1983	10	30.1378595	11	23	01.751	3	59	49.45	150	1.031	du2
1983	10	30.1392397	11	23	02.048	3	59	48.41	150	1.060	du2
1983	11	04.0746678	11	41	35.555	2	32	39.92	124	0.540	du2
1983	11	04.0758858	11	41	35.820	2	32	38.58	127	0.569	du2
1983	11	04.0783325	11	41	36.412	2	32	35.42	120	0.496	du2
1983	11	04.0796396	11	41	36.706	2	32	33.89	131	0.679	du2
1983	11	04.0809819	11	41	37.038	2	32	32.42	124	0.628	du2
1983	11	04.1012564	11	41	41.626	2	32	09.99	130	0.803	du2
1983	11	04.1044216	11	41	42.354	2	32	06.32	125	0.620	du2
1983	11	04.1077829	11	41	43.108	2	32	03.26	132	0.722	du2
1983	11	04.1090538	11	41	43.410	2	32	01.44	129	0.701	du2
1983	11	04.1104811	11	41	43.738	2	31	59.14	127	0.620	du2
1983	11	04.1118513	11	41	44.052	2	31	57.84	127	0.657	du2
1983	11	04.1131454	11	41	44.342	2	31	56.61	120	0.628	du2
1983	11	04.1191738	11	41	45.717	2	31	49.94	127	0.722	du2
1983	11	04.1205722	11	41	46.010	2	31	48.85	122	0.708	du2
1983	11	04.1218670	11	41	46.326	2	31	46.91	128	0.686	du2
1983	11	04.1231778	11	41	46.624	2	31	45.64	128	0.679	du2
1983	11	04.1242179	11	41	46.868	2	31	44.92	126	0.722	du2
1983	11	04.1259723	11	41	47.264	2	31	41.92	120	0.671	du2
1983	11	04.1271965	11	41	47.521	2	31	41.66	125	0.693	du2
1983	11	04.1294498	11	41	48.055	2	31	38.12	120	0.613	du2
1983	11	04.1308912	11	41	48.384	2	31	36.89	123	0.613	du2
1983	11	04.1322588	11	41	48.691	2	31	36.07	120	0.511	du2
1983	11	04.1335672	11	41	48.990	2	31	34.17	120	0.489	du2
1983	11	04.1351091	11	41	49.311	2	31	32.10	120	0.511	du2
1983	12	09.1697514	14	06	50.962	-10	21	07.15	87	0.649	du2
1983	12	09.1738969	14	06	52.060	-10	21	12.73	87	0.733	du2
1983	12	09.1784389	14	06	53.202	-10	21	18.89	80	0.993	du2
1983	12	09.1792859	14	06	53.410	-10	21	20.53	103	1.207	du2
1983	12	09.1801648	14	06	53.682	-10	21	21.27	85	0.810	du2
1983	12	09.1835399	14	06	54.612	-10	21	26.31	84	0.794	du2
1983	12	13.1843571	14	24	52.211	-11	51	33.85	86	0.800	du3
1984	12	23.5932258	21	20	24.081	-17	36	36.70	97	1.103	du2
1984	12	23.5958160	21	20	24.775	-17	36	33.19	97	1.050	du2

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1984	12	23.5982911	21	20	25.466	-17	36	29.52	102	1.148 du2
1984	12	23.6059516	21	20	27.551	-17	36	17.99	131	1.410 zu1
1984	12	23.6087366	21	20	28.279	-17	36	14.25	120	1.283 zu1
1984	12	23.6108924	21	20	28.873	-17	36	11.49	140	1.523 zu1
1984	12	26.5917222	21	33	51.515	-16	25	23.96	82	0.732 du2
1984	12	27.5946083	21	38	17.766	-16	00	49.22	78	0.664 du2
1984	12	27.5969211	21	38	18.368	-16	00	45.62	85	0.716 du2
1984	12	27.5994201	21	38	19.036	-16	00	42.17	82	0.746 du2
1984	12	27.6022968	21	38	19.802	-16	00	37.67	87	0.694 du2
1984	12	27.6074168	21	38	21.119	-16	00	29.85	85	0.784 du2
1984	12	27.6097407	21	38	21.760	-16	00	26.34	77	0.649 du2
1984	12	27.6126057	21	38	22.484	-16	00	22.23	82	0.731 du2
1984	12	27.6182853	21	38	23.978	-16	00	14.28	71	0.582 du2
1984	12	27.6208395	21	38	24.670	-16	00	09.85	67	0.649 du2
1984	12	28.6079727	21	42	44.876	-15	35	36.42	103	0.952 du2
1984	12	28.6101238	21	42	45.446	-15	35	32.84	107	0.990 du2
1984	12	28.6126193	21	42	46.066	-15	35	29.40	104	0.982 du2
1984	12	28.6151152	21	42	46.742	-15	35	25.86	101	0.915 du2
1984	12	28.6176738	21	42	47.415	-15	35	21.65	98	0.982 du2
1985	01	05.5984130	22	16	42.473	-12	05	29.34	97	0.895 zu1
1985	01	05.6015426	22	16	43.234	-12	05	23.87	96	0.734 zu1
1985	01	05.6104895	22	16	45.434	-12	05	08.58	100	0.763 zu1
1985	01	05.6134356	22	16	46.120	-12	05	03.98	102	0.748 zu1
1985	01	05.6162109	22	16	46.786	-12	05	00.02	95	0.660 zu1
1985	01	21.6141944	23	18	40.014	-4	25	37.34	143	1.137 du2
1985	01	21.6189183	23	18	40.966	-4	25	28.86	142	1.151 du2
1985	01	21.6226684	23	18	41.800	-4	25	22.02	149	1.324 zu1
1985	01	21.6266536	23	18	42.683	-4	25	15.00	145	1.317 zu1
1985	01	21.6290998	23	18	43.179	-4	25	10.59	147	1.273 zu1
1985	01	21.6314561	23	18	43.646	-4	25	06.52	144	1.122 zu1
1985	01	21.6337326	23	18	44.140	-4	25	02.22	144	1.165 zu1
1985	01	21.6394627	23	18	45.371	-4	24	52.82	134	1.022 du2
1985	01	21.6419182	23	18	45.898	-4	24	48.38	133	1.079 du2
1985	01	21.6440132	23	18	46.340	-4	24	44.72	134	1.252 du2
1985	01	21.6458416	23	18	46.776	-4	24	41.16	133	0.993 du2
1985	01	21.6483553	23	18	47.270	-4	24	36.94	135	1.043 du2
1985	01	21.6499101	23	18	47.670	-4	24	33.88	126	0.964 du2
1985	01	21.6528094	23	18	48.272	-4	24	28.86	127	1.014 du2
1985	01	29.6288788	23	46	31.166	0	29	40.49	140	0.971 zu1
1985	01	29.6288788	23	46	31.178	0	29	40.49	138	1.007 zu1
1985	01	29.6309825	23	46	31.642	0	29	36.87	148	1.093 zu1
1985	01	29.6309825	23	46	31.624	0	29	37.03	145	1.108 zu1
1985	01	29.6339473	23	46	32.196	0	29	31.42	146	1.151 zu1
1985	01	29.6339473	23	46	32.215	0	29	31.03	149	1.209 zu1
1985	01	29.6359490	23	46	32.614	0	29	28.41	142	1.029 zu1
1985	01	29.6359490	23	46	32.590	0	29	28.39	140	1.029 zu1
1985	01	29.6391573	23	46	33.252	0	29	22.91	142	1.007 zu1
1985	01	29.6391573	23	46	33.225	0	29	22.59	143	0.993 zu1
1985	01	29.6434311	23	46	34.080	0	29	14.86	141	1.022 zu1
1985	01	29.6457272	23	46	34.516	0	29	10.95	147	1.065 zu1
1985	01	29.6480347	23	46	34.975	0	29	07.03	138	0.906 zu1
1985	01	31.6189317	23	53	04.496	0	28	20.49	147	0.864 du2

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1985	01	31.6189317	23	53	04.500	0	28	20.42	143	0.849 du2
1985	01	31.6226973	23	53	05.222	0	28	26.59	143	0.936 du2
1985	01	31.6226973	23	53	05.222	0	28	26.30	153	0.936 du2
1985	01	31.6262907	23	53	05.883	0	28	32.55	141	0.777 du2
1985	01	31.6297282	23	53	06.578	0	28	38.88	143	0.900 du2
1985	01	31.6297282	23	53	06.599	0	28	39.05	153	0.893 du2
1985	01	31.6319488	23	53	07.004	0	28	42.29	153	0.907 du2
1985	01	31.6319488	23	53	06.992	0	28	42.27	145	0.864 du2
1985	01	31.6343067	23	53	07.416	0	28	47.29	142	0.950 du2
1985	01	31.6343067	23	53	07.432	0	28	46.99	149	0.993 du2
1985	01	31.6379516	23	53	08.099	0	28	53.72	148	0.864 du2
1985	01	31.6379516	23	53	08.146	0	28	53.47	152	0.914 du2
1985	01	31.6399633	23	53	08.510	0	28	56.27	149	0.893 du2
1985	01	31.6399633	23	53	08.502	0	28	56.15	149	0.893 du2
1985	01	31.6440056	23	53	09.344	0	29	04.28	152	0.993 du2
1985	01	31.6440056	23	53	09.320	0	29	03.96	149	0.950 du2
1985	01	31.6487571	23	53	10.196	0	29	11.79	159	1.324 du1
1985	01	31.6506484	23	53	10.564	0	29	14.97	160	1.368 zu1
1985	01	31.6530469	23	53	11.032	0	29	19.47	160	1.339 zu1
1985	01	31.6551321	23	53	11.460	0	29	22.75	152	1.346 zu1
1985	01	31.6569995	23	53	11.807	0	29	26.44	161	1.252 zu1
1985	02	10.6489750	00	23	33.278	5	11	22.29	168	0.970 du2
1985	02	10.6510976	00	23	33.586	5	11	25.85	161	0.845 du2
1985	02	10.6539771	00	23	34.068	5	11	30.67	170	0.955 zu1
1985	02	13.6352574	00	31	41.149	6	31	12.20	164	0.684 du2
1985	02	13.6379998	00	31	41.562	6	31	16.97	162	0.684 du2
1985	02	13.6405341	00	31	41.949	6	31	20.44	177	0.751 du2
1985	02	13.6417421	00	31	42.129	6	31	22.29	165	0.558 du2
1985	02	13.6448215	00	31	42.612	6	31	27.04	167	0.625 du2
1985	02	13.6463204	00	31	42.861	6	31	30.37	163	0.640 du2
1985	02	13.6477601	00	31	43.077	6	31	32.03	175	0.729 du2
1985	02	13.6531171	00	31	43.905	6	31	40.49	175	0.669 zu1
1985	02	13.6551755	00	31	44.243	6	31	43.87	174	0.640 zu1
1985	02	13.6590525	00	31	44.861	6	31	50.01	174	0.669 zu1
1985	02	13.6612005	00	31	45.170	6	31	53.59	160	0.587 zu1
1985	02	13.6633111	00	31	45.527	6	31	56.74	164	0.580 zu1
1985	02	15.6495174	00	36	53.001	7	23	31.50	180	0.752 du2
1985	02	15.6511759	00	36	53.247	7	23	34.15	188	0.571 du2
1985	02	15.6525995	00	36	53.461	7	23	36.32	165	0.511 du2
1985	02	15.6557766	00	36	53.911	7	23	40.50	164	0.639 zu1
1985	02	15.6577014	00	36	54.201	7	23	43.74	163	0.601 zu1
1985	02	15.6648264	00	36	55.253	7	23	54.46	165	0.504 zu1
1985	02	24.6732520	00	56	47.297	10	58	17.87	195	0.489 zu1
1985	02	24.6748618	00	56	47.506	10	58	19.90	197	0.546 zu1
1985	02	24.6764972	00	56	47.638	10	58	21.79	201	0.636 zu1
1985	02	24.6788253	00	56	47.901	10	58	25.49	210	0.595 zu1
1985	02	24.6810392	00	56	48.190	10	58	28.08	205	0.733 zu1
1985	02	24.6826927	00	56	48.346	10	58	30.15	204	0.733 zu1
1985	02	24.6846618	00	56	48.539	10	58	32.93	192	0.652 zu1
1985	02	24.6863260	00	56	48.763	10	58	34.86	204	0.733 zu1
1985	02	24.6912054	00	56	49.269	10	58	41.39	191	0.350 du2
1985	02	24.6930877	00	56	49.505	10	58	43.69	199	0.546 du2

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1985	02	24.6950170	00	56	49.683	10	58	45.75	186	0.440	du2
1985	02	24.6976301	00	56	49.943	10	58	49.73	207	0.505	du2
1985	02	24.6992647	00	56	50.155	10	58	51.45	191	0.391	du2
1985	02	27.6586497	01	01	54.203	12	00	24.72	205	0.512	du3
1985	02	27.6603580	01	01	54.349	12	00	26.72	210	0.564	du3
1985	02	27.6633333	01	01	54.629	12	00	30.83	217	0.623	du3
1985	02	27.6648675	01	01	54.763	12	00	32.19	210	0.632	du3
1985	02	27.6688456	01	01	55.128	12	00	36.92	207	0.598	du2
1985	02	27.6704509	01	01	55.277	12	00	38.60	210	0.444	du2
1985	02	27.6721095	01	01	55.441	12	00	40.58	218	0.581	du2
1985	02	27.6739514	01	01	55.577	12	00	42.86	210	0.376	du2
1985	02	27.6775405	01	01	55.917	12	00	47.18	209	0.709	zu1
1985	02	27.6792736	01	01	56.097	12	00	49.42	210	0.751	zu1
1985	02	27.6810656	01	01	56.227	12	00	51.26	209	0.734	zu1
1985	02	27.6829427	01	01	56.403	12	00	53.38	219	0.692	zu1
1985	02	27.6847219	01	01	56.579	12	00	55.53	210	0.589	zu1
1985	02	27.6877759	01	01	56.873	12	00	59.01	210	0.683	zu1
1985	02	27.6895024	01	01	57.018	12	01	01.28	215	0.675	zu1
1985	02	27.6912814	01	01	57.174	12	01	03.21	220	0.589	zu1
1985	02	27.6928980	01	01	57.341	12	01	05.08	215	0.734	zu1
1985	02	28.6571719	01	03	25.227	12	19	58.27	222	0.753	du2
1985	02	28.6600156	01	03	25.446	12	20	01.10	222	0.701	du2
1985	02	28.6612686	01	03	25.566	12	20	02.69	220	0.693	du2
1985	02	28.6682494	01	03	26.161	12	20	10.76	219	0.675	du2
1985	02	28.6698888	01	03	26.312	12	20	12.48	213	0.571	du2
1985	02	28.6716450	01	03	26.433	12	20	14.26	222	0.641	du2
1985	02	28.6734277	01	03	26.619	12	20	15.92	220	0.502	du2
1985	02	28.6767878	01	03	26.851	12	20	20.50	228	1.039	zu1
1985	02	28.6785229	01	03	27.037	12	20	22.14	225	1.021	zu1
1985	02	28.6803944	01	03	27.166	12	20	24.40	220	0.987	zu1
1985	02	28.6824355	01	03	27.331	12	20	26.68	222	1.021	zu1
1985	02	28.6842361	01	03	27.504	12	20	28.40	222	0.987	zu1
1985	02	28.6872904	01	03	27.763	12	20	32.40	221	0.987	zu1
1985	02	28.6890207	01	03	27.893	12	20	34.03	220	1.004	zu1
1985	02	28.6909633	01	03	28.099	12	20	36.44	217	0.961	zu1
1985	02	28.6928076	01	03	28.226	12	20	38.78	219	0.909	zu1
1985	03	05.6679282	01	09	23.255	13	47	19.95	240	0.757	du2
1985	03	05.6704300	01	09	23.375	13	47	21.61	240	0.698	du2
1985	03	05.6720296	01	09	23.451	13	47	23.24	233	0.737	du2
1985	03	05.6762870	01	09	23.642	13	47	27.33	253	0.815	du2
1985	03	05.6811203	01	09	23.933	13	47	31.29	237	0.679	du2
1985	03	05.6833965	01	09	24.052	13	47	33.17	233	0.660	du2
1985	03	05.6850193	01	09	24.096	13	47	34.67	228	0.621	du2
1985	03	05.6866095	01	09	24.196	13	47	36.06	233	0.601	du2
1985	03	06.6691463	01	10	13.391	14	02	23.04	254	1.018	du2
1985	03	06.6716863	01	10	13.517	14	02	24.57	241	1.097	du2
1985	03	06.6743903	01	10	13.638	14	02	27.50	264	1.207	du2
1985	03	06.6761834	01	10	13.695	14	02	28.06	253	1.197	du2
1985	03	06.6791951	01	10	13.835	14	02	31.30	255	1.127	du2
1985	03	06.6812785	01	10	13.948	14	02	33.02	250	1.137	du2
1985	03	06.6848646	01	10	14.081	14	02	36.06	245	1.147	du2
1988	01	23.6177465	22	47	38.428	-9	08	53.25	68	0.692	du2

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1988	01	23.6201308	22	47	39.062	-9	08	49.09	53	0.519 du2
1988	01	24.6222882	22	52	08.665	-8	39	09.12	67	0.642 du2
1988	01	24.6246921	22	52	09.272	-8	39	05.06	65	0.600 du2
1988	01	24.6279139	22	52	10.171	-8	38	59.04	57	0.633 du2
1988	01	24.6298807	22	52	10.657	-8	38	55.70	53	0.559 du2
1988	01	28.6233970	23	09	54.813	-6	38	44.54	67	0.851 du2
1988	01	28.6273542	23	09	55.829	-6	38	36.90	66	0.802 du2
1988	01	28.6293218	23	09	56.371	-6	38	33.84	75	0.966 du2
1988	01	28.6318009	23	09	57.037	-6	38	28.87	69	0.843 du2
1988	02	01.6266874	23	27	26.802	-4	35	42.20	86	1.066 du2
1988	02	01.6284434	23	27	27.228	-4	35	39.40	82	1.123 du2
1988	02	01.6303005	23	27	27.724	-4	35	35.70	79	1.042 du2
1988	02	01.6335411	23	27	28.565	-4	35	29.38	86	1.058 du2
1988	02	01.6353632	23	27	29.029	-4	35	26.11	89	1.156 du2
1988	02	01.6373444	23	27	29.538	-4	35	22.24	86	1.009 du2
1988	02	01.6393370	23	27	30.055	-4	35	18.54	87	1.090 du2
1988	02	23.6490394	01	01	08.440	6	52	17.70	79	0.755 du2
1988	02	23.6507627	01	01	08.884	6	52	20.80	83	0.739 du2
1988	02	23.6537917	01	01	09.629	6	52	26.14	82	0.786 du2
1988	02	23.6557569	01	01	10.114	6	52	29.59	84	0.786 du2
1988	02	23.6577512	01	01	10.637	6	52	33.44	87	0.810 du2
1988	02	23.6608773	01	01	11.412	6	52	39.08	82	0.920 du2
1988	02	23.6681644	01	01	13.235	6	52	52.46	75	0.739 du2
1988	03	15.6842918	02	29	26.629	16	44	47.64	120	1.112 du2
1988	03	15.6856809	02	29	26.980	16	44	49.70	111	1.013 du2
1988	03	15.6883375	02	29	27.661	16	44	53.86	112	1.051 du2
1988	03	15.6900579	02	29	28.079	16	44	56.14	106	0.968 du2
1988	03	21.6878252	02	54	41.862	19	08	01.92	122	1.136 du2
1988	03	21.6892313	02	54	42.227	19	08	03.79	132	1.076 du2
1988	03	21.6918818	02	54	42.898	19	08	06.97	118	1.030 du2
1988	03	21.6933102	02	54	43.271	19	08	08.92	124	1.136 du2
1988	03	21.6946882	02	54	43.580	19	08	11.13	126	1.204 du2
1988	03	21.6997519	02	54	44.865	19	08	17.59	122	1.136 du2
1988	03	21.7013476	02	54	45.266	19	08	19.45	124	1.129 du2
1988	03	21.7029815	02	54	45.674	19	08	21.83	120	1.159 du2
1988	03	21.7063369	02	54	46.516	19	08	26.53	122	1.197 du2
1988	03	21.7099358	02	54	47.418	19	08	31.16	120	1.121 du2
1988	03	21.7121220	02	54	47.988	19	08	33.93	118	1.121 du2
1988	03	21.7136771	02	54	48.376	19	08	36.72	114	0.939 du2
1988	03	21.7152260	02	54	48.762	19	08	38.86	120	1.121 du2
1988	03	22.6925816	02	58	55.177	19	30	33.43	113	0.825 du2
1988	03	22.6965410	02	58	56.153	19	30	39.15	111	0.810 du2
1988	03	22.6994936	02	58	56.900	19	30	42.94	112	0.719 du2
1988	03	22.7029418	02	58	57.770	19	30	47.33	119	0.916 du2
1988	03	22.7044444	02	58	58.168	19	30	49.65	112	0.871 du2
1988	03	22.7060885	02	58	58.549	19	30	51.67	113	0.757 du2
1988	03	22.7097293	02	58	59.465	19	30	56.18	110	0.848 du2
1988	03	22.7112345	02	58	59.860	19	30	58.48	111	0.840 du2
1988	03	22.7128819	02	59	00.278	19	31	00.54	117	0.871 du2
1988	03	22.7145550	02	59	00.667	19	31	02.78	106	0.575 du2
1988	03	23.6970189	03	03	08.213	19	52	38.64	112	0.899 du2
1988	03	23.6985017	03	03	08.569	19	52	41.01	110	0.748 du2

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1988	03	23.7013429	03	03	09.301	19	52	44.63	112	0.846	du2		
1988	03	23.7029822	03	03	09.713	19	52	46.40	115	0.824	du2		
1988	03	23.7043847	03	03	10.093	19	52	48.55	114	0.854	du2		
1988	03	23.7073998	03	03	10.844	19	52	52.46	116	0.816	du2		
1988	03	23.7096300	03	03	11.379	19	52	55.25	114	0.892	du2		
1988	03	23.7111044	03	03	11.729	19	52	57.37	115	0.884	du2		
1988	03	23.7126252	03	03	12.133	19	52	59.21	119	0.952	du2		
1988	03	23.7141248	03	03	12.505	19	53	00.60	111	0.922	du2		
1988	03	23.7168709	03	03	13.221	19	53	04.77	115	0.793	du2		
1988	03	23.7183778	03	03	13.564	19	53	06.50	112	0.846	du2		
1988	03	23.7199182	03	03	13.983	19	53	08.87	116	0.907	du2		
1988	03	23.7214631	03	03	14.368	19	53	10.60	118	0.952	du2		
1988	03	23.7232387	03	03	14.807	19	53	12.65	114	0.869	du2		
1988	03	24.6895362	03	07	18.058	20	14	02.01	115	0.770	du3		
1988	03	24.6934770	03	07	19.041	20	14	07.36	117	0.709	du3		
1988	03	24.6957815	03	07	19.631	20	14	09.89	106	0.657	du3		
1988	03	24.6999801	03	07	20.641	20	14	14.86	106	0.694	du3		
1988	03	24.7028809	03	07	21.417	20	14	19.13	106	0.687	du3		
1988	03	24.7064539	03	07	22.281	20	14	23.33	108	0.687	du2		
1988	03	24.7094949	03	07	23.033	20	14	27.54	106	0.732	du2		
1988	03	24.7117642	03	07	23.647	20	14	30.43	119	0.921	du2		
1988	03	24.7132622	03	07	23.979	20	14	31.92	110	0.732	du2		
1988	03	24.7164516	03	07	24.781	20	14	35.80	111	0.732	du2		
1988	03	24.7179216	03	07	25.151	20	14	37.49	106	0.694	du2		
1988	03	24.7194041	03	07	25.535	20	14	39.92	118	0.732	du2		
1988	03	24.7210918	03	07	25.953	20	14	41.79	114	0.845	du2		
1988	03	24.7242553	03	07	26.739	20	14	46.05	106	0.679	du2		
1988	03	24.7257184	03	07	27.118	20	14	47.43	112	0.641	du2		
1988	03	24.7271889	03	07	27.509	20	14	49.41	109	0.687	du2		
1988	03	26.7000312	03	15	43.210	20	55	58.62	106	0.581	du2		
1988	03	26.7034317	03	15	44.082	20	56	02.80	110	0.528	du2		
1988	03	26.7102465	03	15	45.743	20	56	11.28	110	0.490	du2		
1988	03	26.7122639	03	15	46.260	20	56	13.57	111	0.483	du2		
1988	03	26.7184005	03	15	47.800	20	56	20.74	106	0.513	du2		
1988	03	26.7209051	03	15	48.404	20	56	23.89	106	0.566	du2		
1988	03	26.7234838	03	15	49.048	20	56	27.28	105	0.641	du2		
1988	03	27.6969514	03	19	53.164	21	16	05.31	118	0.722	du2		
1988	03	27.6986910	03	19	53.600	21	16	07.06	105	0.572	du2		
1988	03	27.7014479	03	19	54.312	21	16	10.63	117	0.722	du2		
1988	03	27.7033785	03	19	54.762	21	16	12.93	114	0.557	du2		
1988	03	27.7055567	03	19	55.286	21	16	15.17	98	0.504	du2		
1988	03	28.7102627	03	24	06.777	21	36	02.16	119	0.692	du2		
1988	03	28.7124201	03	24	07.340	21	36	05.00	117	0.745	du2		
1988	03	28.7146042	03	24	07.879	21	36	07.34	118	0.812	du2		
1988	03	28.7185278	03	24	08.834	21	36	12.00	114	0.692	du2		
1988	03	28.7205197	03	24	09.330	21	36	14.19	116	0.654	du2		
1988	03	28.7225764	03	24	09.849	21	36	16.64	115	0.722	du2		
1988	03	28.7246806	03	24	10.376	21	36	19.06	114	0.677	du2		
1988	03	28.7280394	03	24	11.202	21	36	22.94	114	0.662	du2		
1988	03	28.7301424	03	24	11.708	21	36	25.52	115	0.639	du2		
1988	03	28.7321968	03	24	12.260	21	36	28.02	112	0.782	du2		
1988	03	29.6993476	03	28	13.884	21	55	03.28	120	0.796	du3		

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1988	03	29.7034788	03	28	14.905	21	55	08.52	120	0.796	du3		
1988	03	29.7075422	03	28	15.926	21	55	12.51	119	0.811	du3		
1988	03	29.7114576	03	28	16.878	21	55	17.18	120	0.789	du3		
1988	03	29.7154105	03	28	17.888	21	55	21.67	133	0.977	du2		
1988	03	29.7170647	03	28	18.284	21	55	23.07	126	0.887	du2		
1988	03	29.7186823	03	28	18.682	21	55	24.62	120	0.924	du2		
1988	03	29.7203186	03	28	19.074	21	55	27.15	125	0.954	du2		
1988	03	29.7232872	03	28	19.828	21	55	30.26	122	0.887	du2		
1988	03	29.7249176	03	28	20.234	21	55	32.36	124	1.014	du2		
1988	03	29.7266197	03	28	20.661	21	55	34.16	124	0.856	du2		
1988	03	29.7282378	03	28	21.078	21	55	35.96	129	0.962	du2		
1988	03	29.7298859	03	28	21.492	21	55	37.34	124	0.887	du2		
1988	03	30.7011227	03	32	23.561	22	13	49.56	123	0.917	du3		
1988	03	30.7061169	03	32	24.813	22	13	54.58	119	0.834	du3		
1988	03	30.7103900	03	32	25.855	22	13	59.85	129	0.909	du2		
1988	03	30.7119931	03	32	26.243	22	14	00.97	130	1.052	du2		
1988	03	30.7148542	03	32	26.951	22	14	04.66	132	1.127	du2		
1988	03	30.7166863	03	32	27.437	22	14	06.42	132	1.134	du2		
1988	03	30.7184468	03	32	27.839	22	14	08.86	132	1.022	du2		
1988	03	30.7203171	03	32	28.341	22	14	10.52	124	1.052	du2		
1988	03	30.7238981	03	32	29.203	22	14	14.56	124	0.932	du2		
1988	03	30.7255243	03	32	29.613	22	14	16.00	124	1.007	du2		
1988	03	30.7271424	03	32	30.023	22	14	17.72	124	1.037	du2		
1988	03	30.7286956	03	32	30.397	22	14	19.17	124	1.037	du2		
1988	03	30.7303113	03	32	30.793	22	14	21.18	125	1.067	du2		
1988	03	30.7340532	03	32	31.716	22	14	25.18	122	1.082	du2		
1988	03	30.7358229	03	32	32.162	22	14	27.05	130	1.082	du2		
1988	03	31.7099363	03	36	34.311	22	32	13.20	122	0.676	du2		
1988	03	31.7116435	03	36	34.729	22	32	15.10	111	0.578	du2		
1988	03	31.7144873	03	36	35.416	22	32	18.06	111	0.511	du2		
1988	03	31.7163113	03	36	35.871	22	32	20.34	120	0.653	du2		
1988	03	31.7180440	03	36	36.284	22	32	22.02	111	0.496	du2		
1988	03	31.7210058	03	36	37.007	22	32	25.50	113	0.608	du2		
1988	03	31.7236632	03	36	37.705	22	32	28.16	117	0.638	du2		
1988	03	31.7253843	03	36	38.133	22	32	29.95	111	0.541	du2		
1988	03	31.7286227	03	36	38.931	22	32	33.22	117	0.578	du2		
1988	03	31.7303426	03	36	39.368	22	32	35.14	119	0.510	du2		
1988	03	31.7320856	03	36	39.767	22	32	37.03	109	0.503	du2		
1988	04	01.7105486	03	40	42.361	22	49	58.64	117	0.533	du3		
1988	04	01.7141609	03	40	43.237	22	50	02.28	123	0.721	du2		
1988	04	01.7156597	03	40	43.603	22	50	03.96	125	0.729	du2		
1988	04	01.7188484	03	40	44.405	22	50	06.81	124	0.714	du2		
1988	04	01.7202986	03	40	44.747	22	50	09.00	118	0.601	du2		
1988	04	01.7218171	03	40	45.150	22	50	10.30	120	0.661	du2		
1988	04	01.7267407	03	40	46.343	22	50	15.57	114	0.721	du2		
1988	04	01.7282894	03	40	46.733	22	50	16.88	121	0.796	du2		
1988	04	01.7297442	03	40	47.109	22	50	18.30	120	0.729	du2		
1988	04	01.7322894	03	40	47.722	22	50	20.98	119	0.766	du2		
1988	04	01.7337569	03	40	48.075	22	50	22.86	110	0.661	du2		
1988	04	01.7351875	03	40	48.450	22	50	24.10	127	0.744	du2		
1988	04	01.7367211	03	40	48.788	22	50	25.81	115	0.736	du2		
1988	04	01.7381875	03	40	49.189	22	50	27.32	117	0.774	du2		

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1988	04	01.7396204	03	40	49.538	22	50	28.43	127	0.811 du2
1988	04	02.7112361	03	44	49.666	23	07	13.50	131	0.931 du3
1988	04	02.7143009	03	44	50.432	23	07	16.72	135	1.006 du2
1988	04	02.7156505	03	44	50.748	23	07	17.82	134	1.066 du2
1988	04	02.7182743	03	44	51.384	23	07	20.78	130	0.939 du2
1988	04	02.7196308	03	44	51.710	23	07	22.24	134	1.059 du2
1988	04	02.7210127	03	44	52.060	23	07	23.30	133	0.999 du2
1988	04	02.7234803	03	44	52.665	23	07	25.84	132	1.006 du2
1988	04	02.7248576	03	44	53.003	23	07	27.48	130	0.976 du2
1988	04	02.7265220	03	44	53.409	23	07	29.20	130	0.976 du2
1988	04	02.7279120	03	44	53.769	23	07	30.52	131	0.984 du2
1988	04	02.7309144	03	44	54.504	23	07	33.53	132	0.961 du2
1988	04	02.7323843	03	44	54.839	23	07	35.30	135	0.946 du2
1988	04	02.7337604	03	44	55.210	23	07	35.96	126	0.728 du2
1988	04	02.7351343	03	44	55.508	23	07	37.58	126	0.931 du2
1988	04	02.7365185	03	44	55.858	23	07	38.90	130	0.924 du2
1988	04	02.7379051	03	44	56.224	23	07	40.38	129	0.901 du2
1988	04	03.7133110	03	48	56.408	23	24	00.10	124	0.730 du3
1988	04	03.7165955	03	48	57.220	23	24	03.03	134	0.827 du2
1988	04	03.7179556	03	48	57.547	23	24	04.31	132	0.858 du2
1988	04	03.7203823	03	48	58.128	23	24	07.04	124	0.767 du2
1988	04	03.7232000	03	48	58.832	23	24	08.96	124	0.873 du2
1988	04	03.7260326	03	48	59.510	23	24	11.76	129	0.797 du2
1988	04	03.7273818	03	48	59.879	23	24	13.28	130	0.933 du2
1988	04	03.7287429	03	49	00.184	23	24	14.72	133	0.918 du2
1988	04	03.7302743	03	49	00.564	23	24	16.12	127	0.895 du2
1988	04	03.7329424	03	49	01.226	23	24	19.03	124	0.730 du2
1988	04	03.7343757	03	49	01.544	23	24	20.00	118	0.669 du2
1988	04	03.7357876	03	49	01.914	23	24	21.54	125	0.797 du2
1988	04	03.7371815	03	49	02.254	23	24	22.86	124	0.639 du2
1988	04	03.7385765	03	49	02.610	23	24	24.26	122	0.730 du2
1988	04	08.7201939	04	09	13.552	24	40	00.76	128	0.541 du3
1988	04	08.7223674	04	09	14.077	24	40	02.59	128	0.579 du3
1988	04	08.7251014	04	09	14.724	24	40	04.74	129	0.684 du2
1988	04	08.7263979	04	09	15.041	24	40	06.17	133	0.691 du2
1988	04	08.7290810	04	09	15.701	24	40	07.71	138	0.819 du2
1988	04	08.7305130	04	09	16.035	24	40	09.33	128	0.661 du2
1988	04	08.7319619	04	09	16.389	24	40	10.47	143	0.841 du2
1988	04	08.7349257	04	09	17.109	24	40	12.79	136	0.736 du2
1988	04	08.7363471	04	09	17.428	24	40	13.74	143	0.909 du2
1988	04	08.7378220	04	09	17.775	24	40	15.56	104	0.781 du2
1988	04	08.7392569	04	09	18.131	24	40	16.01	136	0.887 du2
1988	04	08.7407556	04	09	18.513	24	40	17.48	131	0.721 du2
1988	04	08.7433339	04	09	19.081	24	40	19.61	127	0.736 du2
1988	04	08.7447690	04	09	19.487	24	40	20.73	141	0.887 du2
1988	04	08.7462206	04	09	19.813	24	40	22.33	140	0.774 du2
1988	04	08.7476389	04	09	20.160	24	40	23.11	131	0.766 du2
1988	04	15.7213510	04	36	33.229	26	04	11.17	149	0.789 du3
1988	04	15.7246399	04	36	33.988	26	04	13.45	155	0.789 du3
1988	04	15.7361140	04	36	36.575	26	04	20.16	144	0.895 du2
1988	04	15.7373830	04	36	36.872	26	04	20.77	150	0.964 du2
1988	04	15.7401367	04	36	37.486	26	04	22.18	148	0.910 du2

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1988	04	15.7414029	04	36	37.777	26	04	22.82	149	0.941 du2
1988	04	15.7439605	04	36	38.348	26	04	24.64	146	0.933 du2
1988	04	15.7453946	04	36	38.675	26	04	25.55	164	0.933 du2
1988	04	15.7475309	04	36	39.242	26	04	26.46	143	0.645 du2
1988	04	15.7527097	04	36	40.331	26	04	29.64	155	0.675 du2
1988	04	15.7539337	04	36	40.587	26	04	30.46	149	0.630 du2
1988	04	15.7552326	04	36	40.898	26	04	31.12	149	0.683 du2
1988	04	15.7563487	04	36	41.164	26	04	31.90	139	0.690 du2
1988	04	15.7575672	04	36	41.424	26	04	32.58	142	0.645 du2
1988	04	16.7317356	04	40	21.763	26	14	10.43	145	0.624 du3
1988	04	16.7337873	04	40	22.243	26	14	11.52	143	0.601 du3
1988	04	16.7365856	04	40	22.855	26	14	13.02	149	0.853 du2
1988	04	16.7388454	04	40	23.358	26	14	14.36	147	0.830 du2
1988	04	16.7400616	04	40	23.626	26	14	15.06	149	0.708 du2
1988	04	16.7426520	04	40	24.206	26	14	16.55	145	0.830 du2
1988	04	16.7452667	04	40	24.819	26	14	17.98	143	0.731 du2
1988	04	16.7464197	04	40	25.074	26	14	18.76	152	0.761 du2
1988	04	16.7570336	04	40	27.420	26	14	24.54	149	0.716 du2
1988	04	16.7581619	04	40	27.679	26	14	25.36	152	0.761 du2
1988	04	16.7593866	04	40	27.984	26	14	25.92	151	0.914 du2
1988	04	16.7607196	04	40	28.258	26	14	26.74	145	0.799 du2
1988	04	17.7310464	04	44	05.376	26	23	31.76	143	0.657 du3
1988	04	17.7338890	04	44	06.022	26	23	33.44	154	0.649 du2
1988	04	17.7364127	04	44	06.590	26	23	34.44	153	0.703 du2
1988	04	17.7377009	04	44	06.845	26	23	35.42	151	0.810 du2
1988	04	17.7469682	04	44	08.884	26	23	40.05	143	0.672 du2
1988	04	17.7481078	04	44	09.160	26	23	40.74	147	0.687 du2
1988	04	17.7509216	04	44	09.795	26	23	41.73	142	0.611 du2
1988	04	17.7521738	04	44	10.046	26	23	42.88	149	0.604 du2
1988	04	17.7534413	04	44	10.338	26	23	42.98	144	0.626 du2
1988	04	17.7559973	04	44	10.895	26	23	44.48	141	0.580 du2
1988	04	17.7572378	04	44	11.190	26	23	45.38	141	0.512 du2
1988	04	17.7585203	04	44	11.434	26	23	45.94	143	0.466 du2
1988	04	18.7345604	04	47	47.331	26	32	23.10	150	0.629 du2
1988	04	18.7369288	04	47	47.833	26	32	24.03	144	0.629 du2
1988	04	18.7382204	04	47	48.168	26	32	24.84	152	0.736 du2
1988	04	18.7405586	04	47	48.694	26	32	25.74	153	0.736 du2
1988	04	18.7418826	04	47	48.938	26	32	27.06	153	0.713 du2
1988	04	18.7430942	04	47	49.195	26	32	27.58	158	0.644 du2
1988	04	18.7455355	04	47	49.725	26	32	28.80	153	0.667 du2
1988	04	18.7514703	04	47	51.024	26	32	31.60	151	0.667 du2
1988	04	18.7527170	04	47	51.296	26	32	32.18	148	0.644 du2
1988	04	18.7539862	04	47	51.600	26	32	32.29	150	0.644 du2
1988	04	18.7553450	04	47	51.911	26	32	33.18	146	0.728 du2
1988	04	18.7564998	04	47	52.154	26	32	33.86	150	0.621 du2
1988	04	18.7577316	04	47	52.405	26	32	34.60	155	0.583 du2
1988	04	18.7600086	04	47	52.894	26	32	35.90	141	0.552 du2
1988	04	18.7612155	04	47	53.175	26	32	36.47	144	0.491 du2
1988	04	18.7624802	04	47	53.466	26	32	36.70	142	0.759 du2
1988	04	18.7636399	04	47	53.717	26	32	37.04	143	0.475 du2
1988	04	19.7346523	04	51	25.803	26	40	40.69	155	0.814 du2
1988	04	19.7370845	04	51	26.431	26	40	42.04	143	0.598 du2

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1988	04	19.7394852	04	51	26.853	26	40	43.36	152	0.522	du2		
1988	04	19.7407328	04	51	27.110	26	40	43.33	150	0.629	du2		
1988	04	19.7431277	04	51	27.643	26	40	44.89	146	0.768	du2		
1988	04	19.7443806	04	51	27.887	26	40	45.31	149	0.752	du2		
1988	04	19.7456910	04	51	28.191	26	40	46.07	161	0.898	du2		
1988	04	19.7480469	04	51	28.693	26	40	46.84	148	0.768	du2		
1988	04	19.7492899	04	51	28.975	26	40	47.49	151	0.729	du2		
1988	04	19.7514192	04	51	29.409	26	40	48.84	153	0.768	du2		
1988	04	19.7526622	04	51	29.693	26	40	49.29	144	0.760	du2		
1988	04	19.7539876	04	51	29.983	26	40	49.83	154	0.721	du2		
1988	04	19.7566352	04	51	30.534	26	40	51.07	149	0.752	du2		
1988	04	19.7579222	04	51	30.811	26	40	51.55	151	0.752	du2		
1988	04	19.7591753	04	51	31.091	26	40	51.68	153	0.798	du2		
1988	04	19.7604146	04	51	31.374	26	40	52.52	151	0.737	du2		
1988	04	20.7543309	04	55	05.528	26	48	35.59	143	0.677	du2		
1988	04	20.7555623	04	55	05.768	26	48	35.95	154	0.893	du2		
1988	04	20.7568155	04	55	06.035	26	48	36.55	156	0.862	du2		
1988	04	20.7580591	04	55	06.317	26	48	36.97	155	0.862	du2		
1988	04	20.7593241	04	55	06.588	26	48	37.43	160	0.901	du2		
1988	04	20.7605836	04	55	06.829	26	48	37.65	155	0.739	du2		
1988	04	20.7630829	04	55	07.391	26	48	38.82	155	0.762	du2		
1988	04	20.7643498	04	55	07.649	26	48	39.48	160	0.862	du2		
1988	04	20.7655657	04	55	07.891	26	48	40.17	155	0.793	du2		
1988	04	20.7667600	04	55	08.187	26	48	40.25	151	0.808	du2		
1988	04	21.7377669	04	58	34.370	26	55	42.79	151	0.270	du3		
1988	04	21.7415203	04	58	35.132	26	55	43.91	144	0.355	du3		
1988	04	21.7441983	04	58	35.716	26	55	45.57	150	0.340	du3		
1988	04	21.7535589	04	58	37.684	26	55	48.48	150	0.402	du3		
1988	04	21.7569500	04	58	38.384	26	55	50.31	152	0.556	du3		
1988	04	21.7587271	04	58	38.750	26	55	50.97	150	0.402	du3		
1988	04	21.7608086	04	58	39.208	26	55	51.81	142	0.587	du2		
1988	04	21.7633169	04	58	39.728	26	55	52.79	151	0.556	du2		
1988	04	21.7652139	04	58	40.128	26	55	53.31	146	0.525	du2		
1988	04	25.7404209	05	12	09.707	27	19	30.07	163	0.585	du3		
1988	04	25.7440448	05	12	10.404	27	19	30.91	167	0.735	du3		
1988	04	25.7466171	05	12	10.907	27	19	32.17	167	0.490	du3		
1988	04	25.7512524	05	12	11.795	27	19	33.35	162	0.750	du2		
1988	04	25.7525887	05	12	12.073	27	19	33.23	171	0.806	du2		
1988	04	25.7548029	05	12	12.473	27	19	34.05	162	0.387	du2		
1988	04	25.7611096	05	12	13.709	27	19	36.10	162	0.695	du2		
1988	04	25.7627503	05	12	14.041	27	19	36.15	159	0.782	du2		
1988	04	25.7666707	05	12	14.827	27	19	37.45	164	0.766	du2		
1988	04	25.7679579	05	12	15.093	27	19	37.83	164	0.782	du2		
1988	04	25.7686369	05	12	15.204	27	19	38.25	170	0.806	du2		
1988	04	25.7699175	05	12	15.455	27	19	38.35	162	0.790	du2		
1988	04	25.7725281	05	12	15.973	27	19	39.27	170	0.821	du2		
1988	04	27.7514652	05	18	35.510	27	28	23.13	170	0.632	du3		
1988	04	27.7539566	05	18	35.974	27	28	23.41	175	0.672	du2		
1988	04	27.7552793	05	18	36.219	27	28	23.82	172	0.664	du2		
1988	04	27.7576082	05	18	36.650	27	28	23.82	163	0.576	du2		
1988	04	27.7588513	05	18	36.874	27	28	24.36	163	0.624	du2		
1988	04	27.7612163	05	18	37.326	27	28	24.52	162	0.552	du2		

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1988	04	27.7625275	05	18	37.535	27	28	24.92	152	0.424	du2	
1988	04	27.7638302	05	18	37.795	27	28	25.34	166	0.576	du2	
1988	04	27.7646544	05	18	37.966	27	28	25.52	173	0.672	du2	
1988	04	27.7679531	05	18	38.616	27	28	26.26	163	0.584	du2	
1988	04	27.7692590	05	18	38.806	27	28	26.04	152	0.512	du2	
1988	04	27.7705476	05	18	39.057	27	28	26.57	171	0.544	du2	
1988	04	27.7725924	05	18	39.447	27	28	27.38	168	0.680	du2	
1988	04	27.7751547	05	18	39.904	27	28	28.00	163	0.488	du2	
1988	04	27.7764882	05	18	40.156	27	28	27.66	170	0.512	du2	
1988	04	27.7777759	05	18	40.438	27	28	28.19	170	0.544	du2	
1988	04	27.7790522	05	18	40.648	27	28	28.63	172	0.672	du2	
1988	04	27.7803133	05	18	40.914	27	28	28.74	171	0.568	du2	
1988	04	29.7535510	05	24	41.521	27	35	13.66	168	0.528	du3	
1988	04	29.7574662	05	24	42.196	27	35	13.90	170	0.552	du3	
1988	04	29.7598405	05	24	42.606	27	35	14.06	163	0.511	du3	
1988	04	29.7626985	05	24	43.123	27	35	14.78	174	0.731	du2	
1988	04	29.7642593	05	24	43.411	27	35	15.00	180	0.860	du2	
1988	04	29.7666637	05	24	43.837	27	35	15.76	175	0.812	du2	
1988	04	29.7678977	05	24	44.079	27	35	16.18	172	0.860	du2	
1988	04	29.7691328	05	24	44.280	27	35	15.73	180	0.893	du2	
1988	04	29.7715624	05	24	44.741	27	35	16.20	180	0.690	du2	
1988	04	29.7728356	05	24	44.935	27	35	16.21	169	0.836	du2	
1988	04	29.7740846	05	24	45.148	27	35	16.54	177	0.844	du2	
1988	04	29.7764771	05	24	45.596	27	35	17.01	181	0.722	du2	
1988	04	29.7805888	05	24	46.327	27	35	17.33	173	0.438	du2	
1988	04	29.7818169	05	24	46.545	27	35	18.12	172	0.519	du2	
1988	04	29.7830520	05	24	46.781	27	35	17.72	171	0.503	du2	
1988	04	30.7561716	05	27	37.464	27	37	55.35	180	0.713	du3	
1988	04	30.7690355	05	27	39.697	27	37	56.91	180	0.803	du2	
1988	04	30.7703022	05	27	39.911	27	37	56.97	190	0.902	du2	
1988	04	30.7715485	05	27	40.151	27	37	57.42	177	0.828	du2	
1988	04	30.7727904	05	27	40.340	27	37	57.51	189	0.910	du2	
1988	05	04.7581995	05	38	25.629	27	43	57.08	185	0.394	du2	
1988	05	04.7641828	05	38	26.545	27	43	57.13	191	0.609	du2	
1988	05	04.7695031	05	38	27.331	27	43	57.56	179	0.472	du2	
1988	05	04.7708201	05	38	27.579	27	43	57.48	187	0.480	du2	
1988	05	04.7758458	05	38	28.282	27	43	57.46	191	0.574	du2	
1988	05	04.7773356	05	38	28.519	27	43	57.34	190	0.557	du2	
1988	05	04.7788274	05	38	28.779	27	43	57.51	174	0.454	du2	
1988	05	04.7803236	05	38	28.963	27	43	57.35	183	0.557	du2	
1988	05	04.7818593	05	38	29.217	27	43	57.06	181	0.549	du2	
1988	05	05.7796288	05	40	55.980	27	44	17.53	190	0.529	du2	
1988	05	05.7813373	05	40	56.234	27	44	18.15	195	0.555	du2	
1988	05	05.7831683	05	40	56.488	27	44	17.61	189	0.538	du2	
1988	05	10.7657453	05	51	29.162	27	39	23.70	208	0.681	du2	
1988	05	10.7673338	05	51	29.334	27	39	23.54	210	0.833	du2	
1988	05	10.7696704	05	51	29.604	27	39	22.96	208	0.653	du2	
1988	05	10.7746846	05	51	30.138	27	39	22.21	210	0.738	du2	
1988	05	10.7757965	05	51	30.260	27	39	21.87	214	0.662	du2	
1988	05	10.7769422	05	51	30.395	27	39	21.97	210	0.662	du2	

Литература

1. Воздвиженский Б.С. «Об исключении влияния фотографической иррадиации на результаты фотографических позиционных наблюдений Венеры», АЦ N 859, 1975, с.1-2.
2. Воздвиженский Б.С. «О методе учета эффекта фотографической иррадиации при позиционных фотографических наблюдениях Венеры», Сообщ. ГАИШ, N 200, 1977, с.23-32.
3. Воздвиженский Б.С. «О фотографических позиционных наблюдениях Венеры» Сб. «Задачи современной астрометрии в создании инерциальной системы координат», Фан, Ташкент, 1981, с.227-241.
4. Воздвиженский Б.С. «О новых результатах изучения эффекта фотографической иррадиации при фотографических позиционных наблюдениях больших планет», А.Ж., т.59, вып.3, 1982, с.588-590. (zu-1,DU-3)
5. Воздвиженский Б.С. «Наблюдения Венеры в Государственном астрономическом институте им. П.К.Штернберга в 1975-1977гг.», Тр. ГАИШ, т.LV, 1983, изд-во МГУ, 1983г., с. 47-58.