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Lab 3: Multi-factor CAPM modelling and analysis

Data Entry - Same data as for Lab 2 You can use Home --> Import Data for this, or if you saved your data as suggested in the lab 2 code, use "load Lab2.mat" This time I just copied and pasted the monthly data from Lab 2 into Matlab again using the variable names 'FFmat' and 'indmat', i.e.

FFmat =	[192607	2.62	-2.16	-2.92	0.22
192608	2.56	-1.49	4.88	0.25	
192609	0.36	-1.38	-0.01	0.23	
192610	-3.43	0.04	0.71	0.32	
192611	2.44	-0.24	-0.31	0.31	
192612	2.77	-0.01	-0.10	0.28	
192701	-0.11	-0.30	4.79	0.25	
192702	4.32	-0.24	3.35	0.26	
192703	0.32	-1.87	-2.58	0.30	
192704	0.41	0.29	0.95	0.25	
192705	5.39	1.53	5.07	0.30	
192706	-2.30	0.65	-2.04	0.26	
192707	7.27	-3.54	-0.86	0.30	
192708	2.42	-0.75	-4.14	0.28	
192709	4.69		-1.08	0.21	
192710	-4.44	2.04		0.25	
192711	6.66	2.56	-0.02	0.21	
192712	2.15	1.06	-0.73	0.22	
192801	-0.60	4.40	-1.32	0.25	
192802	-1.77	-1.96	-0.63	0.33	
192803	8.80	-0.24	-1.41	0.29	
192804	4.10	4.08	3.42	0.22	
192805	1.52	3.06	-3.70	0.32	
192806	-4.84		0.07	0.31	
192807	0.69	-1.63	-0.07	0.32	
192808	6.64	-2.14	-2.12	0.32	
192809	2.87	1.77	1.35	0.27	
192810	1.47	2.71	-2.63	0.41	
192811	11.75	-2.20	3.30	0.38	
192812	0.47	-1.09	-0.02	0.06	
192901	4.87	-2.80	-1.75	0.34	
192902	-0.38		0.94	0.36	
192903	-1.14		1.00	0.34	
192904	1.32		0.46	0.36	
192905	-6.35	-7.09	0.71	0.44	

192906 192907	9.45 4.20	-1.74 -4.38	-2.48 1.99	0.52
192908	8.16	-8.79	-0.49	0.40
192909	-5.35	1.42	-1.12	0.35
192910	-20.01	-3.77	8.95	0.46
192911	-12.70 1.43	-2.20	4.70	0.37
192912 193001	5.52	-4.63 4.46	0.25 -2.29	0.37 0.14
193001	2.47	0.70	-0.55	0.30
193003	7.15	3.71	0.37	0.35
193004	-2.30	-0.67	-1.96	0.21
193005	-1.59	-1.78	-1.57	0.26
193006	-16.06	-3.33	2.11	0.27
193007	3.77	0.56	-2.54	0.20
193008 193009	0.32 -12.62	-2.13 -2.17	-0.88 -4.45	0.09 0.22
193019	-8.79	-1.02	-0.61	0.22
193011	-2.73	2.23	-2.90	0.13
193012	-7.98	-4.97	-5.01	0.14
193101	6.10	3.79	7.56	0.15
193102	10.90	2.71	2.22	0.04
193103	-6.53	2.80	-3.08	0.13
193104 193105	-9.93 -13.38	-4.87	-3.39 -6.31	0.08
193105	13.72	5.85 -5.66	10.58	0.09
193107	-6.56	1.82	-3.76	0.06
193108	0.20	-1.14	-2.47	0.03
193109	-29.04	0.09	-6.65	0.03
193110	7.82	-1.47	0.45	0.10
193111	-9.05	5.19	-6.05	0.17
193112	-13.46	-0.52	-8.96	0.12
193201 193202	-1.31 5.37	3.77 -1.33	10.69 -5.12	0.23
193202	-11.03	1.73	-1.00	0.16
193204	-18.03	1.73	-0.91	0.11
193205	-20.81	4.48	-4.03	0.06
193206	-0.53	-0.49	5.49	0.02
193207	33.72	-5.95	35.48	0.03
193208	36.57	19.24	27.74	0.03
193209 193210	-3.12 -13.14	-2.45 -2.63	-6.41 -9.98	0.03
193210	-5.59	1.40		0.02
193212	4.57	-9.72	-6.92	0.01
193301	0.97	-1.02	8.25	0.01
193302	-15.00	-3.26	-2.90	-0.03
193303	3.36	4.90	6.98	0.04
193304	38.27	5.69	18.34	0.10
193305	21.15 13.42	39.04 8.46	15.19 -2.72	0.04
193306 193307	-9.63	-0.41	0.59	0.02
193307	12.10	-5.78	3.78	0.02
193309		0.25		0.02
193310	-8.33	0.40		0.01
193311	9.97	-6.85	2.10	0.02

193312	1.98	0.67	-1.41	0.02
193401	12.93	11.17	16.42	0.05
193402	-2.35	5.09	2.51	0.02
193403	0.46	2.64	-3.63	0.02
193404	-1.80	3.36	-5.02	0.01
193405	-7.11	0.18	-7.12	0.01
193406	2.51	-2.38	-2.20	0.01
193407	-10.83	-6.42	-12.06	0.01
193408	5.95	4.59	1.86	0.01
193409	-0.31	-1.51	-0.32	0.01
193410	-1.94	1.26	-4.63	0.01
193411	8.40	7.56	-4.26	0.01
193412	0.38	2.94	-3.29	0.01
193501	-3.29	1.09	-2.22	0.01
193502	-1.88	0.50	-7.16	0.02
193503	-3.71	-3.77	-4.82	0.01
193504	8.91	-2.09	5.09	0.01
193505	3.47	-3.91	1.89	0.01
193506	5.52	-5.54	4.27	0.01
193507	7.35	2.97	4.99	0.01
193507	2.60	7.52	5.14	0.01
193508	2.58	0.59	-4.83	0.01
193510	7.12	2.30	-0.43	0.01
193511	5.17	5.66	10.53	0.02
193512	4.60	0.96	0.27	0.01
193601	6.60	6.43	10.09	0.01
193602	2.56	0.77	3.98	0.01
193603	0.92	1.10	-2.23	0.02
193604	-8.07	-6.81	-2.18	0.02
193605	5.01	0.81	2.69	0.02
193606	2.57	-3.20	-0.97	0.03
193607	6.45	1.12	1.35	0.01
193608	1.06	-0.09	3.84	0.02
193609	1.42	3.12	-0.32	0.01
193610	6.89	-2.19	1.61	0.02
193611	3.32	8.34	-1.01	0.01
193612	0.21	3.67	4.96	0.00
193701	3.24	4.21	3.22	0.01
193701	1.28	0.63	5.22	0.01
193703	-0.36	-2.15	7.05	0.01
193704	-7.45	-3.40	-4.91	0.03
193705	-0.92	-0.74	-3.17	0.06
193706	-4.19	-3.05	-3.56	0.03
193707	8.86	1.17	0.15	0.03
193708	-4.88	0.51	-1.99	0.02
193709	-13.58	-6.76	-4.54	0.04
193710	-9.49	0.51	-1.53	0.02
193711	-8.39	-3.24	0.22	0.02
193712	-4.01	-7.80	-0.85	0.00
193801	0.76	5.19	-2.22	0.00
193802	5.79	0.60	-1.96	0.00
193803	-23.70	-3.56	-4.41	-0.01
193804	14.55	6.58	-0.35	0.01
193805	-3.92	-2.38	-0.42	0.00

102006	02 61	2 52	0 11	0 00
193806	23.61	3.53	2.11	0.00
193807	7.20	6.72	0.78	-0.01
193808	-2.72	-2.46	-4.26	0.00
193809	0.84	-2.53	-1.26	0.02
193810	7.77	6.62	3.98	0.01
193811	-1.77	-2.42	-0.76	-0.06
193812	4.10	-1.85	0.77	0.00
193901 193902	-5.95 3.48	-1.43 0.31	-3.52 3.23	-0.01
193902	-11.91	-5.41	-8.31	0.01
193903	-0.23	1.97	0.29	0.00
193905	6.86	3.87	-0.08	0.01
193906	-5.29	-1.68	-5.54	0.01
193907	10.18	4.62	0.55	0.00
193908	-6.60	-4.50	-2.99	-0.01
193909	15.95	18.77	23.27	0.01
193910	-0.38	0.26	-4.66	0.00
193911	-3.68	-4.43	-6.54	0.00
193912	3.03	0.67	-3.84	0.00
194001	-2.40	0.21	-0.75	0.00
194002	1.37	2.32	-0.44	0.00
194003	1.89	1.63	-1.12	0.00
194004	0.12	3.57	-0.28	0.00
194005	-22.01	-6.21	-4.04	-0.02
194006	6.67	-2.34	4.80	0.00
194007	3.21	0.87	-0.57	0.01
194008	2.41	0.19	0.47	-0.01
194009	2.30	3.39	-1.70	0.00
194010	2.97	-0.17	5.43	0.00
194011	-1.63	2.06	0.49	0.00
194012	0.68	-2.41	-1.31	0.00
194101 194102	-4.04 -1.47	0.85 -1.21	3.22 1.05	-0.01 -0.01
194102	0.95	0.12	2.95	0.01
194103	-5.30	-1.69	3.43	-0.01
194105	1.39	-0.83	0.52	0.00
194106	5.87	1.47	0.66	0.00
194107	5.92	5.74	7.25	0.03
194108	-0.06	-0.16	-1.20	0.01
194109	-0.76	-1.43	0.28	0.01
194110	-5.18	-2.10	1.31	0.00
194111	-1.94	-1.05	-0.64	0.00
194112	-4.68	-3.33	-5.04	0.01
194201	0.70	7.51	9.93	0.02
194202	-2.42	1.69	-1.06	0.01
194203	-6.58	2.29	-1.22	0.01
194204	-4.32	-1.03	1.87	0.01
194205	6.07	-3.03	-2.97	0.03
194206	2.53	-0.90	0.25	0.02
194207	3.46	-0.33	2.56	0.03
194208	1.84	-0.39	1.94	0.03
194209	2.60	0.14	3.40	0.03
194210 194211	6.74 0.22	1.39 -0.77	6.68 -5.35	0.03
エノマムエエ	0.44	0.77	رد. د	0.03

194212	5.01	-2.09	0.78	0.03
194301	7.30	8.34	7.66	0.03
194302	5.96	4.47	6.41	0.03
194303	6.18	4.66	5.52	0.03
194304	0.66	1.92	6.36	0.03
194305	5.69	4.20	3.13	0.03
194306	1.66	-0.63	-0.95	0.03
194307	-4.65	-2.68	-2.47	0.03
194308	1.27	-0.80	-0.88	0.03
194309	2.42	1.31	1.35	0.03
194310	-1.25	0.90	1.33	0.03
194311	-5.88	-1.58	-4.87	0.03
194312	6.33	3.29	3.13	0.03
194401	1.78	2.51	2.75	0.03
	0.34			
194402		-0.28	0.74	0.03
194403	2.42	1.86	3.05	0.02
194404	-1.66	-1.41	-0.97	0.03
194405	5.07	1.49	1.31	0.03
194406	5.59	4.12	2.54	0.03
194407	-1.55	0.73	-0.62	0.03
194408	1.56	2.11	-1.30	0.03
194409	0.00	0.58	-0.97	0.02
194410	0.22	-0.24	-0.24	0.03
194411	1.62	0.46	1.74	0.03
194412	4.10	1.61	6.63	0.02
194501	1.89	2.85	0.62	0.03
194502	6.41	1.54	4.33	0.02
194503	-3.89	-1.80	-1.58	0.02
194504	7.72	0.22	3.98	0.03
194505	1.83	1.31	1.16	0.03
194506	0.32	2.95	4.42	0.02
194507	-2.24	-1.68	-2.52	0.03
194508	6.08	1.49	-4.32	0.03
194509	4.78	1.94	0.26	0.03
194510	3.87	2.46	1.68	0.03
194511	5.43	3.82	4.43	0.02
194512	1.15	2.66	-2.09	0.03
194601	6.30	4.02	1.89	0.03
194602	-5.82	-0.77	-1.37	0.03
194603	5.84	0.30	-0.80	0.03
194604	4.26	2.21	-0.22	0.03
194605	3.96	1.47	1.74	0.03
194606	-3.94	-1.53	0.01	0.03
194607	-2.58	-2.11	0.03	0.03
194608	-6.42	-1.83	0.17	0.03
194609	-10.05	-4.20	-2.28	0.03
194610	-1.45	-0.26	3.50	0.03
194611	0.09	-0.46	1.24	0.03
194612	5.06	0.05	-1.15	0.03
194701	1.48	1.69	-0.66	0.03
194702	-1.19	0.68	-0.25	0.03
194703	-1.74	-1.68	0.47	0.03
194704	-4.82	-4.09	0.75	0.03
194705	-1.03	-3.30	0.15	0.03

194706	5.34	-0.30	-0.37	0.03
194707	4.09	1.51	2.92	0.03
194708	-1.78	0.39	0.13	0.03
194709	-0.50	1.56	1.47	0.06
194710	2.40	0.57	0.08	0.06
194711	-1.89	-1.77	0.99	0.06
194712	2.94	-2.38	3.91	0.08
194801	-3.80	2.40	1.15	0.07
194802	-4.41	-1.73	0.01	0.07
194803	8.19	0.15	4.54	0.09
194804	3.70	-1.66	4.07	0.08
194805	7.38	0.99	-1.16	0.08
194806	-0.11	-1.77	2.64	0.09
194807	-5.12	-0.34	0.11	0.08
194808	0.30	-1.10	0.24	0.09
194809	-2.99	-1.28	-1.80	0.04
194810	5.97	-1.50	0.63	0.04
194811	-9.10	-0.62	-4.50	0.04
194812	3.18	-2.78	-1.80	0.04
194901	0.20	1.64	1.35	0.10
194902	-3.04	-1.81	-0.82	0.09
194903	4.05	2.32	1.52	0.10
194904	-1.88	-0.97	-1.06	0.09
194905	-2.84	-0.84	-2.55	0.10
194906	0.21	-0.91	-1.78	0.10
194907	5.49	0.60	0.43	0.09
194908	2.57	0.20	-0.41	0.09
194909	3.09	1.00	0.18	0.09
194910	3.03	1.05	-0.41	0.09
194911	1.80	-0.96	-0.88	0.08
194912	5.12	2.09	1.66	0.09
195001	1.64	3.36	0.19	0.09
195002	1.37	0.11	-0.72	0.09
195003	1.12	-1.37	-2.75	0.10
195004	3.94	1.90	1.38	0.09
195005	4.27	-2.06	0.44	0.10
195006	-5.89	-2.38	-0.75	0.10
195007	1.51	0.55	13.47	0.10
195008	4.97	0.80	-1.45	0.10
195009	4.78	0.52	-0.93	0.10
195010	-0.23	-0.52	1.42	0.12
195011	2.74	-0.85	3.26	0.11
195012	5.66	1.50	7.22	0.11
195101	5.69	1.76	3.79	0.13
195102	1.34	0.14	-2.92	0.10
195103	-2.20	-0.67	-4.17	0.11
195104	4.83	-1.46	3.29	0.13
195105	-2.38	0.05	-1.38	0.12
195106	-2.65	-1.97	-3.99	0.12
195107	6.99	-1.87	1.95	0.13
195108	4.38	0.84	0.21	0.13
195109	0.80	2.00	0.72	0.12
195110	-2.40	-0.41	0.11	0.16
195111	0.48	-0.31	0.38	0.11

195112 195201	3.37 1.54	-2.05 -0.74	-1.91 1.87	0.12 0.15
195201	-2.62	0.67	-0.26	0.13
195203	4.45	-2.98	2.26	0.11
195204	-5.01	0.39	0.26	0.12
195205	3.16	-1.05	0.15	0.13
195206	3.78	-1.60	1.19	0.15
195207	1.00	-0.32	-0.35	0.15
195208	-0.81	1.16	-0.12	0.15
195209	-2.06	1.23	-1.64	0.16
195210	-0.69	-1.10	-0.30	0.14
195211	5.78	-0.63	1.08	0.10
195212	2.96	-1.41	0.18	0.16
195301	-0.29	3.50	1.25	0.16
195302	-0.31	2.20	-0.10	0.14
195303	-1.52	-0.01	-1.01	0.18
195304	-2.91	0.31	1.48	0.16
195305	0.54	-0.08	0.14	0.17
195306	-1.85	-1.75	-0.49	0.18
195307	2.38	-1.00	-0.37	0.15
195308	-4.58	0.42	-3.62	0.17
195309	0.15	-0.77	-2.59	0.16
195310	4.58	-1.37	0.08	0.13
195311	2.75	-1.22	-0.35	0.08
195312	-0.05	-0.75	-2.96	0.13
195401	5.14	0.47	3.48	0.11
195402	1.68	-0.19	-0.24	0.07
195403	3.65	-0.50	-1.53	0.08
195404	4.20	-3.45	-0.50	0.09
195405	3.11	0.38	2.54	0.05
195406	1.09	0.40	0.01	0.06
195407	4.99	0.93	4.29	0.05
195408	-2.30	2.73	-1.68	0.05
195409	6.34	-2.44	0.58	0.09
195410	-1.69	0.51	0.72	0.07
195411	9.47	-2.46	4.01	0.06
195412	5.45	2.12	5.68	0.08
195501	0.62	0.32	2.04	0.08
195502	3.04	1.45	0.76	0.09
195503	-0.21	-0.67	1.97	0.10
195504	3.13	-1.75	0.87	0.10
195505	1.05 6.48	-0.24 -4.54	-0.79	0.14
195506 195507	1.93	-4.34 -1.12	1.72 0.33	0.10
195508	0.27	-0.44	0.33	0.16
195509	-0.36	0.30	-1.01	0.16
195510	-2.75	1.50	-0.11	0.18
195511	6.99	-2.15	0.29	0.17
195512	1.46	2.15	-2.36	0.18
195601	-3.02	0.35	0.96	0.22
195602	3.76	-0.95	-0.40	0.19
195603	6.67	-1.96	-0.79	0.15
195604	0.32	-0.01	-0.17	0.19
195605	-5.15	1.38	-1.20	0.23

195606	3.52	-1.44	-1.13	0.20
195607	4.86	-1.82	0.20	0.22
195608	-3.20	2.25	-1.18	0.17
195609	-5.15	1.66	1.77	0.18
195610	0.47	-0.16	-0.06	0.25
195611	0.26	-0.20	1.79	0.20
195612	3.25	-0.16	-1.95	0.24
195701	-3.48	3.78	2.22	0.27
195702	-2.11	-0.73	-0.66	0.24
195703	2.18	0.24	-0.36	0.23
195704	4.26	-1.86	-1.21	0.25
195705	3.40	-1.06	-2.20	0.26
195706	-0.75	0.63	-0.21	0.24
195707	0.59	-0.53	0.00	0.30
195708	-5.25	-0.01	-0.33	0.25
195709	-6.02	0.07	0.90	0.26
195710	-4.40	-2.56	-1.80	0.29
195711	2.27	0.34	-2.79	0.28
195712	-3.98	-0.92	-1.70	0.24
195801	4.71	4.34	4.21	0.28
195802	-1.53	0.72	0.23	0.12
195803	3.29	0.79	-1.22	0.09
195804	3.00	-0.66	1.63	0.08
195805	2.35	2.14	-0.20	0.11
195806	2.92	-0.24	0.50	0.03
195807	4.42	0.43	3.16	0.07
195808	1.87	1.19	0.32	0.04
195809	4.67	0.09	3.03	0.19
195810	2.57	1.17	-1.29	0.18
195811	2.94	2.05	-1.32	0.11
195812	5.07	-2.09	0.02	0.22
195901	0.71	3.01	2.94	0.21
195902	0.94	1.52	1.05	0.19
195903	0.23	1.46	-0.26	0.22
195904	3.59	-0.58	-1.25	0.20
195905	1.73	-2.18	1.87	0.22
195906	-0.19	0.66	1.40	0.25
195907	3.17	-0.30	0.20	0.25
195908	-1.43	-0.78	0.39	0.19
195909	-4.80	-0.10	0.50	0.31
195910	1.27	1.43	-2.06	0.30
195911	1.59	1.30	-3.29	0.26
195912	2.46	-0.56	-0.10	0.34
196001	-6.97	2.04	2.69	0.33
196002	1.13	0.56	-1.98	0.29
196003	-1.63	-0.43	-2.91	0.35
196004	-1.72	0.43	-2.39	0.19
196005	3.13	1.34	-3.79	0.27
196006	2.06	-0.16	-0.33	0.24
196007	-2.40	-0.50	2.14	0.13
196008	3.06	0.90	-0.39	0.17
196009	-6.02	-1.12	1.48	0.16
196010	-0.70	-3.92	2.59	0.22
196011	4.72	0.38	-2.49	0.13

196012	4.69	-1.51	-0.66	0.16
196101	6.20	0.84	3.75	0.19
196102	3.56	3.98	-0.86	0.14
196103	2.86	3.24	-0.70	0.20
196104	0.40	0.13	1.89	0.17
196105	2.40	1.97	0.52	0.18
196106	-3.05	-2.47	-0.29	0.20
196107	2.81	-1.90	-0.15	0.18
196108	2.55	-1.84	-0.24	0.14
196109	-2.17	-1.12	-0.49	0.17
196110	2.55	-2.02	0.46	0.19
196111	4.39	1.07	-0.92	0.15
196112	-0.12	-1.13	2.21	0.19
196201	-3.86	1.88	5.03	0.24
196202	1.75	-1.18	0.88	0.20
196203 196204	-0.67 -6.57	0.23 -0.97	-0.98	0.20
196204	-8.71	-3.00	0.41 2.30	0.22
196205	-8.46	-0.74	2.88	0.24
196207	6.28	1.58	-3.64	0.20
196207	2.11	1.29	-1.19	0.27
196208	-5.23	-2.56	1.46	0.23
196210	-0.04	-3.99	1.23	0.21
196211	10.81	2.66	0.99	0.20
196212	0.96	-3.80	0.31	0.23
196301	4.93	3.11	2.29	0.25
196302	-2.42	0.38	2.26	0.23
196303	3.06	-2.55	2.14	0.23
196304	4.49	-1.33	1.10	0.25
196305	1.77	1.09	2.77	0.24
196306	-2.03	-0.26	0.79	0.23
196307	-0.44	-0.50	-0.95	0.27
196308	5.02	-1.03	1.78	0.25
196309	-1.46	-0.34	0.21	0.27
196310	2.48	-0.55	-0.03	0.29
196311	-0.82	-1.11	1.65	0.27
196312	1.88	-1.99	0.01	0.29
196401	2.28	-0.17	1.54	0.30
196402	1.46	0.08	2.84	0.26
196403	1.45	0.95	3.43	0.31
196404	0.17	-1.37	-0.52	0.29
196405	1.48	-0.89	1.91	0.26
196406	1.21	-0.30	0.75	0.30
196407	1.71	0.23	0.69	0.30
196408	-1.41	0.09	0.12	0.28
196409	2.77	-0.51	1.65	0.28
196410	0.60	0.45	1.12	0.29
196411	0.02	0.61	-1.96	0.29
196412	0.06	-0.24	-2.59	0.31
196501	3.58	2.67	0.18	0.28
196502	0.39	3.48	0.21	0.30
196503	-1.33	1.77	1.08	0.36
196504	3.06	1.19	0.70	0.31
196505	-0.75	0.03	-1.62	0.31

196506	-5.54	-4.35	0.57	0.35
196507	1.37	0.84	2.24	0.31
196508				
	2.76	2.85	-1.06	0.33
196509	2.89	0.60	-0.09	0.31
196510	2.62	2.43	1.58	0.31
196511	-0.04	4.66	0.31	0.35
196512	1.02	2.08	1.98	0.33
196601	0.83	3.86	3.53	0.38
196602	-1.21	4.44	0.43	0.35
196603	-2.47	0.97	-2.06	0.38
196604	2.14	3.44	-0.42	0.34
196605	-5.66	-4.66	-1.63	0.41
196606	-1.41	1.05	0.59	0.38
196607	-1.64	-0.33	0.84	0.35
196608	-7.95	-3.31	0.56	0.41
196609	-1.10	-1.10	0.53	0.40
196610	3.78	-6.62	2.91	0.45
196611	1.35	4.37	-4.65	0.40
196612	0.22	1.87	-1.33	0.40
196701	8.12	8.47	1.89	0.43
196702	0.73	3.38	-2.27	0.36
196703	3.95	1.76	0.15	0.39
196704	3.84	0.60	-2.61	0.32
196705	-4.26	2.00	0.81	0.33
196706	2.42	6.01	0.88	0.27
196707	4.60	3.09	2.69	0.32
196708	-0.94	0.48	1.48	0.31
196709	3.11	3.08	-2.46	0.32
196710	-3.13	1.44	-3.39	0.39
196711	0.43	0.19	-1.72	0.36
196712	3.04	5.73	-0.44	0.33
196801	-4.03	3.90	4.79	0.40
196802	-3.75	-2.93	1.21	0.39
196803	0.13	-1.27	-0.52	0.38
			-0.32	
196804	8.98	5.72		0.43
196805	2.25	6.42	0.85	0.45
196806	0.72	-0.17	0.73	0.43
196807	-2.68	-1.32	5.45	0.48
196808	1.38	2.35	0.97	0.42
196809	4.02	2.81	0.24	0.43
196810	0.46	-0.48	2.96	0.44
196811	5.43	2.38	-0.91	0.42
196812	-3.82	3.44	0.06	0.43
196901	-1.20	-0.79	1.57	0.53
196902	-5.82	-3.90	0.93	0.46
196903	2.59	-0.26	-0.45	0.46
196904	1.52	-0.84	0.04	0.53
196905	0.02	-0.28	0.72	0.48
196906	-7.25	-5.36	-1.13	0.51
196907	-7.05	-3.21	1.38	0.53
196908	4.65	0.90	-3.80	0.50
196909	-2.88	1.18	-3.20	0.62
196910	4.96	3.76	-3.11	0.60
196911	-3.74	-2.54	-1.11	0.52

196912	-2.61	-3.67	-3.05	0.64
197001	-7.93	2.90	3.01	0.60
197002	5.05	-2.37	4.03	0.62
197003	-1.04	-2.35	4.27	0.57
197004	-11.03	-6.11	6.34	0.50
197005	-6.96	-4.46	3.57	0.53
197006	-5.69	-2.16	0.79	0.58
197007	6.90	-0.56	1.01	0.52
197008	4.47	1.52	1.04	0.53
197009	4.21	8.61	-5.54	0.54
197010	-2.28	-4.20	0.30	0.46
197011	4.58	-4.09	1.68	0.46
197012	5.65	2.97	1.00	0.42
197101	4.82	7.44	1.34	0.38
197102	1.36	1.90	-1.34	0.33
197103	4.18	2.58	-3.99	0.30
197104	3.05	-0.52	0.75	0.28
197105	-3.93	-1.12	-1.38	0.29
197106	-0.06	-1.42	-1.99	0.37
197107	-4.43	-1.50	0.17	0.40
197108	3.78	-0.21	2.69	0.47
197109	-0.87	0.41	-2.96	0.37
197110	-4.44	-1.77	-0.44	0.37
197111	-0.50	-2.83	-1.72	0.37
197112	8.76	3.32	-0.29	0.37
197201	2.55	6.13	2.02	0.29
197202	2.88	1.37	-2.78	0.25
197203	0.60	-0.26	-1.71	0.27
197204	0.26	0.02	0.22	0.29
197205	1.34	-2.77	-2.68	0.30
197206	-2.38	0.33	-2.53	0.29
197207	-0.74	-2.90	0.83	0.31
197208	3.31	-4.00	4.60	0.29
197209	-1.11	-2.65	0.43	0.34
197210	0.47	-2.66	1.26	0.40
197211	4.61	-1.12	4.87	0.37
197212	0.75	-1.83	-2.32	0.37
197301	-3.19	-3.45	2.69	0.44
197302	-4.85	-3.99	1.74	0.41
197303	-1.25	-2.84	2.73	0.46
197304	-5.70	-3.97	5.61	0.52
197305	-2.96	-6.02	0.20	0.51
197306	-1.37	-2.93	1.39	0.51
197307	5.06	7.91	-5.22	0.64
197308	-3.66	-2.01	1.23	0.70
197309	4.71	2.91	2.08	0.68
197310	-0.69	-0.13	1.78	0.65
197311	-12.63	-7.72	4.00	0.56
197312	0.50	-5.27	4.29	0.64
197401	-0.19	9.83	5.79	0.63
197402	-0.34	0.01	2.55	0.58
197403	-2.90	2.45	-0.06	0.56
197404	-5.35	-0.69	1.05	0.75
197405	-4.95	-3.03	-2.07	0.75

197406	-2.89	-0.16	0.82	0.60
197407	-7.79	0.87	5.23	0.70
197408	-9.38	-0.68	2.55	0.60
197409	-11.78	0.31	5.45	0.81
197410	16.05	-3.48	-9.81	0.51
197411	-4.64	-1.11	-0.18	0.54
197412	-3.40	-4.85	0.10	0.70
197501	13.58	10.83	8.35	0.78
197501	5.41	0.18	-4.54	0.43
				0.43
197503	2.61	3.73	2.49	
197504	4.21	-0.48	-1.20	0.44
197505	5.07	3.86	-4.06	0.44
197506	4.74	0.77	1.26	0.41
197507	-6.52	2.64	1.68	0.48
197508	-2.84	-3.18	-0.87	0.48
197509	-4.33	-0.11	0.38	0.53
197510	5.03	-4.05	0.33	0.56
197511	2.71	-1.21	2.02	0.41
197512	-1.58	-0.77	1.77	0.48
197601	12.13	4.79	8.59	0.47
197602	0.39	6.98	5.87	0.34
197603	2.28	-1.14	-0.09	0.40
197604	-1.46	-0.07	0.01	0.42
197605	-1.31	-1.23	-1.31	0.37
197606	4.02	-1.38	0.72	0.43
197607	-1.09	0.32	1.71	0.47
197608	-0.56	-2.01	0.78	0.42
197609	2.01	0.06	-0.34	0.44
197610	-2.45	0.22	-0.14	0.41
197611	0.14	2.31	1.53	0.40
197612	5.76	2.98	2.17	0.40
197701	-3.99	4.77	4.25	0.36
197702	-1.93	1.07	0.49	0.35
197702	-1.30	0.98	1.03	0.33
197704	0.12	-0.10	3.39	0.38
197705	-1.45	1.21	0.82	0.37
197706	4.74	2.16	-0.62	0.40
197707	-1.70	2.12	-0.60	0.42
197708	-1.78	1.50	-2.80	0.44
197709	-0.27	1.44	-0.50	0.43
197710	-4.42	1.25	1.71	0.49
197711	4.04	3.72	0.38	0.50
197712	0.33	1.35	-0.34	0.49
197801	-6.01	2.21	3.28	0.49
197802	-1.39	3.55	0.82	0.46
197803	2.87	3.42	1.28	0.53
197804	7.74	0.40	-3.46	0.54
197805	1.81	4.60	-0.61	0.51
197806	-1.62	1.73	0.59	0.54
197807	5.11	0.28	-1.08	0.56
197808	3.69	5.08	-0.50	0.55
197809	-1.31	-0.40	1.90	0.62
197810	-11.78	-9.91	1.41	0.68
197811	2.68	3.05	-2.25	0.70
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197812	0.99	1.27	-2.24	0.78
197901	4.18	3.69	2.28	0.77
197902	-3.41	0.47	1.17	0.73
197903	5.75	3.19	-0.67	0.81
197904	0.05	2.18	1.06	0.80
197905	-2.18	0.34	1.62	0.82
197906	3.88	1.17	1.42	0.81
197907	0.73	1.31	1.75	0.77
197908	5.70	2.07	-1.53	0.77
197909	-0.69	-0.29	-0.91	0.83
197910	-8.14	-3.33	-1.87	0.87
197911	5.37	2.75	-3.34	0.99
197912	1.87	4.24	-2.04	0.95
198001	5.76	1.68	1.78	0.80
198002	-0.79	-1.79	0.58	0.89
198003	-13.23	-6.64	-1.02	1.21
198004	3.97	0.99	1.09	1.26
198005	5.20	2.13	0.38	0.81
198006	3.16	1.69	-0.91	0.61
198007	6.41	4.21	-6.27	0.53
198008	1.72	3.91	-2.69	0.64
198009	2.20	0.87	-4.71	0.75
198010	1.06	2.45	-2.75	0.95
198011	9.54	-3.46	-8.52	0.96
198012	-4.75	-0.23	2.67	1.31
198101	-5.05	3.02	6.88	1.04
198102	0.48	-0.29	1.00	1.07
198103	3.41	3.61	0.74	1.21
198104	-2.21	4.40	2.28	1.08
198105	0.21	2.05	-0.45	1.15
198106	-2.37	-0.86	5.13	1.35
198107	-1.55	-2.26	-0.53	1.24
198108	-6.91	-1.93	4.78	1.28
198109	-7.62	-2.64	5.19	1.24
198110	4.81	2.24	-4.36	1.21
198111				
	3.51	-0.93	1.86	1.07
198112	-3.68	1.20	0.72	0.87
198201	-3.42	-1.24	3.07	0.80
198202	-6.03	0.50	6.03	0.92
198203	-1.99	-0.22	3.86	0.98
198204	3.20	1.46	-2.72	1.13
198205	-3.88	0.50	1.80	1.06
198206	-3.35	-0.39	1.57	0.96
198207	-3.10	0.89	0.23	1.05
198208	11.14	-4.13	1.17	0.76
198209	1.17	2.94	0.34	0.51
198210	11.27	2.34	-3.72	0.59
198211	4.56	4.77	-1.93	0.63
198212	0.78	-0.17	0.04	0.67
198301	3.50	2.66	-0.87	0.69
198302	2.40	3.26	0.70	0.62
198303	2.84	1.76	2.08	0.63
198304	6.71	0.53	0.58	0.71
	0.63			
198305	0.03	6.12	-1.40	0.69

198306	3.11	0.92	-3.85	0.67
198307	-3.90	1.51	5.65	0.74
198308	-0.41	-4.30	5.46	0.76
198309	0.85	0.55	1.05	0.76
198310	-3.56	-3.61	4.94	0.76
198311	2.26	2.03	-0.63	0.70
198312	-1.78	-0.29	1.64	0.73
198401	-2.06	-0.40	7.56	0.76
198402	-4.62	-1.72	3.39	0.71
198403	0.61	0.14	0.52	0.73
198404	-0.56	-1.20	1.28	0.81
198405	-6.01	0.08	0.20	0.78
198406	1.59	-0.27	-2.59	0.75
198407	-2.88	-2.28	0.28	0.82
198408	10.44	-0.22	-1.75	0.83
198409	-0.82	0.24	5.33	0.86
198410	-1.01	-1.17	0.46	1.00
198411	-1.80	-0.63	4.01	0.73
198412	1.73	-0.57	-0.11	0.64
198501	7.92	3.27	-5.35	0.65
198502	1.11	0.79	-0.23	0.58
198503	-0.79	-1.12	3.98	0.62
198504	-0.94	0.18	3.72	0.72
198505	4.92	-2.28	-0.91	0.66
198506	1.16	0.49	0.42	0.55
198507	-0.65	2.85	-1.63	0.62
198508	-1.03	-0.37	2.20	0.55
198509				
	-4.58	-1.61	1.25	0.60
198510	3.79	-1.58	0.72	0.65
198511	6.31	0.24	-2.87	0.61
198512	3.66	-0.46	-1.52	0.65
198601	0.42	1.21	0.53	0.56
198602	6.72	-0.59	-0.84	0.53
198603	4.79	-0.48	-0.44	0.60
198604	-1.31	2.82	-2.91	0.52
198605	4.59	-1.30	-0.11	0.49
198606	0.90	-0.89	1.38	0.52
198607	-6.49	-3.43	4.71	0.52
198608	6.16	-4.17	3.53	0.46
198609	-8.35	2.30	3.22	0.45
198610	4.47	-2.59	-1.48	0.46
198611	1.12	-1.96	-0.16	0.39
198612	-3.13	0.07	0.36	0.49
198701	12.43	-1.73	-3.15	0.42
	4.36	3.45	-5.95	0.42
198702			1.65	0.43
198703	1.90	0.44		
198704	-2.14	-1.69	-0.29	0.44
198705	0.13	-0.56	0.17	0.38
198706	3.89	-2.10	1.13	0.48
198707	3.96	-0.68	0.67	0.46
198708	3.24	-0.77	-0.94	0.47
198709	-2.53	0.62	0.28	0.45
198710	-23.14	-8.41	4.17	0.60
198711	-7.58	2.61	3.18	0.35

198712	6.64	0.18	-4.48	0.39
198801	4.20	-0.66	5.22	0.29
198802	4.71	3.34	-1.66	0.46
198803	-2.10	6.15	0.77	0.44
198804	0.64	0.96	1.73	0.46
198805	-0.47	-2.62	2.31	0.51
198806	4.66	2.12	-1.14	0.49
198807	-1.24	-0.19	2.28	0.51
198808	-3.39	0.08	2.09	0.59
198809	3.10	-1.30	-0.74	0.62
198810	1.15	-2.94	1.66	0.61
198811	-2.21	-1.74	1.26	0.57
198812	1.48	1.93	-1.55	0.63
198901	6.06	-2.15	0.52	0.55
198902	-2.25	2.74	0.87	0.61
198903	1.48	0.70	0.47	0.67
198904	4.15	-0.53	-1.38	0.67
198905	3.14	-0.03	-0.84	0.79
198906	-1.20	-1.01	2.18	0.71
198907	7.01	-3.98	-2.80	0.70
198908	1.47	0.50	0.67	0.74
198909	-0.80	0.34	-1.30	0.65
198910	-3.61	-3.23	-0.98	0.68
198911	1.09	-1.26	-1.12	0.69
198912	1.22	-2.35	0.29	0.61
199001	-7.58	-1.25	0.87	0.57
199002	0.92	1.15	0.66	0.57
199002	1.77	1.50	-2.86	
				0.64
199004	-3.52	-0.44	-2.48	0.69
199005	8.21	-2.48	-3.63	0.68
199006	-1.05	1.37	-2.11	0.63
199007	-1.62	-3.18	-0.05	0.68
199008	-9.85	-3.57	1.49	0.66
199009	-5.98	-3.63	0.67	0.60
199010	-1.93	-5.56	0.26	0.68
199011	6.00	0.32	-2.96	0.57
199012	2.35	0.78	-1.49	0.60
199101	4.39	3.85	-1.73	0.52
199102	7.10	3.90	-0.58	0.48
199103	2.45	3.92	-1.19	0.44
199104	-0.20	0.53	1.43	0.53
199105	3.60	-0.31	-0.56	0.47
199106	-4.82	0.06	1.23	0.42
199107	4.19	-0.97	-1.29	0.49
199108	2.22	1.59	-0.80	0.46
199109	-1.56	1.68	-1.06	0.46
199110	1.36	0.85	-0.39	0.42
199111	-4.12	-0.55	-1.77	0.39
199112	10.30	-2.26	-4.02	0.38
199201	-0.46	8.43	4.63	0.34
199202	1.06	0.87	6.37	0.28
199203	-2.71	-1.08	3.72	0.34
199203	1.02	-6.08	4.33	0.34
199204	0.36	0.42	$\frac{4.33}{1.17}$	0.32
177 2 03	0.30	0.44	⊥.⊥/	0.20

199206	-2.25	-3.07	3.32	0.32
199207	3.68	-0.39	-0.48	0.31
199208	-2.34	-0.11	-1.09	0.26
199209	0.98	0.58	-0.20	0.26
199210	0.87	2.07	-2.05	0.23
199211	3.79	3.63	-1.53	0.23
199212	1.50	1.63	2.53	0.28
199301	1.03	2.03	5.83	0.23
199302	0.32	-3.36	6.50	0.22
199303	2.26	0.23	1.23	0.25
199304	-2.78	-0.64	2.65	0.24
199305	2.74	1.97	-3.45	0.22
199306	0.29	-0.31	2.61	0.25
199307	-0.32	0.95	3.24	0.24
199308	3.70	0.22	-0.40	0.25
199309	-0.20	3.08	-0.45	0.26
199310	1.59	1.45	-1.59	0.22
199311	-2.01	-1.41	-0.31	0.25
199312	1.72	1.24	0.60	0.23
199401	2.90	0.11	2.15	0.25
199402	-2.63	2.72	-1.37	0.21
199403	-4.85	-0.90	1.29	0.27
199404	0.68	-0.88	1.66	0.27
199405	0.62	-2.05	0.12	0.32
199406	-3.10	-0.49	1.71	0.31
199407	2.78	-1.78	0.98	0.28
199408	3.89	1.45	-3.47	0.37
199409	-2.21	2.70	-1.83	0.37
199410	1.07	-2.21	-2.35	0.38
199411	-4.09	-0.16	-0.07	0.37
199412	0.82	0.04	0.22	0.44
199501	1.62	-2.95	1.67	0.42
199502	3.56	-0.33	0.37	0.40
199503	2.24	-0.35	-2.04	0.46
199504	2.06	-0.41	1.73	0.44
199505	2.86	-2.24	1.97	0.54
199506	2.65	3.07	-2.99	0.47
199507	3.63	2.22	-2.15	0.45
199508	0.46	1.84	1.89	0.47
199509	3.21	-2.02	-0.92	0.43
199510	-1.60	-3.99	-0.08	0.47
199511	3.85	-0.81	0.34	0.42
199512	1.03	0.42	1.41	0.49
199601	2.38	-2.44	0.36	0.43
199602	1.24	2.06	-2.32	0.39
199603	0.70	1.31	1.23	0.39
199604	2.09	4.89	-3.98	0.46
199605	2.26	3.22	-1.38	0.42
199606	-1.23	-3.68	1.93	0.42
199607	-5.83	-3.57	4.39	0.45
199608	2.84	2.31	-0.59	0.43
199609	4.86	-0.82	-3.83	0.44
199610	0.94	-4.11	4.81	0.42
199611	6.14	-3.60	0.21	0.42
-	V. I I	3.00	0.21	0.11

199612	-1.60	3.15	0.94	0.46
199701	4.89	-1.51	-2.30	0.45
199702	-0.50	-2.57	4.72	0.39
199703	-4.91	-0.30	3.88	0.43
199704	3.80	-5.14	-1.00	0.43
199705	6.67	4.79	-4.35	0.49
199706	4.04	1.52	0.70	0.37
199707	7.22	-2.42	-0.38	0.43
199707	-4.04			
		7.48	1.03	0.41
199709	5.40	2.68	-0.28	0.44
199710	-3.87	-0.81	2.31	0.42
199711	2.66	-5.05	1.03	0.39
199712	1.30	-2.34	3.82	0.48
199801	0.02	-1.01	-1.82	0.43
199802	6.93	0.21	-0.72	0.39
199803	4.74	-1.18	1.67	0.39
199804	0.66	0.46	0.31	0.43
199805	-2.98	-3.58	4.27	0.40
199806	2.79	-3.28	-1.84	0.41
199807	-2.73	-4.88	-1.08	0.40
199808	-16.20	-5.70	5.14	0.43
199809	5.92	-0.16	-3.96	0.46
199810	7.12	-3.19	-2.71	0.32
199811	5.89	1.12	-3.29	0.31
199812	5.93	-0.27	-4.80	0.38
199901	3.48	0.67	-5.61	0.35
		-5.68		0.35
199902	-4.16		1.71	
199903	3.36	-3.89	-2.88	0.43
199904	4.53	3.37	2.45	0.37
199905	-2.41	3.69	2.69	0.34
199906	4.70	3.37	-4.30	0.40
199907	-3.44	2.23	0.54	0.38
199908	-1.39	-1.24	-0.99	0.39
199909	-2.68	3.25	-3.08	0.39
199910	5.81	-6.78	-3.26	0.39
199911	3.32	7.66	-7.99	0.36
199912	7.93	6.82	-9.19	0.44
200001	-4.37	4.39	0.23	0.41
200002	2.75	22.06	-12.87	0.43
200003	4.88	-16.62	7.91	0.47
200004	-6.41	-7.64	9.26	0.46
200005	-4.40	-4.66	3.80	0.50
200006	4.76	13.74	-9.92	0.40
200007	-2.19	-2.79	8.45	0.48
200008	7.08	-0.90	-1.29	0.50
200009	-5.62	-1.84	6.87	0.51
200010	-3.02	-3.63	4.80	0.56
200010	-10.76	-3.03	12.39	0.50
200012	1.53	1.59	6.13	0.50
200101	3.41	6.98	-5.67	0.54
200102	-10.32	-1.14	13.88	0.39
200103	-7.47	0.53	6.37	0.44
200104	8.00	0.28	-4.39	0.39
200105	0.74	3.01	2.82	0.32

200106	-2.03	6.39	-2.11	0.28
200107	-2.13	-4.18	5.61	0.30
200108	-6.22	2.18	3.32	0.31
200109	-9.43	-6.53	1.63	0.28
200110	2.58	6.83	-6.99	0.22
200111	7.70	0.39	0.82	0.17
200111	1.63	5.12	0.39	0.15
200201	-1.74	1.15	3.46	0.14
200202	-2.30	-1.67	3.92	0.13
200203	4.34	4.34	1.14	0.13
200204	-5.12	5.84	4.21	0.15
200205	-1.19	-3.68	2.46	0.14
200206	-7.16	3.55	1.47	0.13
200207	-8.26	-5.16	-3.65	0.15
200208	0.66	-2.19	2.17	0.14
200209	-10.14	2.69	1.16	0.14
200210	7.35	-3.01	-6.51	0.14
200211	6.01	3.18	-1.54	0.12
200212	-5.44	-0.52	3.86	0.11
200301	-2.44	1.40	-0.90	0.10
200302	-1.63	-0.27	-1.46	0.09
200303	0.93	0.83	-1.73	0.10
200303	8.18	1.11	-0.02	0.10
200301	6.26	4.69	0.16	0.09
200305	1.53	1.48	0.66	0.10
200307	2.24	5.62	-2.08	0.07
200308	2.43	2.65	1.79	0.07
200309	-0.99	0.57	0.92	0.08
200310	5.96	2.87	1.84	0.07
200311	1.59	2.20	1.46	0.07
200312	4.47	-2.78	2.64	0.08
200401	2.23	2.61	1.66	0.07
200402	1.49	-1.15	0.34	0.06
200403	-1.16	1.87	-0.01	0.09
200404	-2.50	-2.56	-1.70	0.08
200405	1.35	-0.15	-0.26	0.06
200406	2.08	2.28	1.68	0.08
200407	-3.87	-3.82	4.39	0.10
200408	0.16	-1.54	1.12	0.11
200409	1.94	2.85	0.34	0.11
200410	1.67	0.42	-0.89	0.11
200411	4.67	4.11	1.91	0.15
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	-2.82	-1.62	2.49	0.16
200501			2.78	
200502	2.11	-0.75		0.16
200503	-1.90	-1.30	1.66	0.21
200504	-2.73	-3.96	-0.48	0.21
200505	3.56	2.95	-1.16	0.24
200506	0.92	2.57	2.75	0.23
200507	4.09	2.76	-0.46	0.24
200508	-0.89	-0.89	1.42	0.30
200509	0.77	-0.63	1.17	0.29
200510	-2.35	-1.04	-0.70	0.27
200511	3.73	1.00	-1.81	0.31

200512	0.03	-0.48	0.48	0.32
200601	3.65	5.39	1.14	0.35
200602	-0.50	-0.36	-0.83	0.34
200603	1.54	3.54	-0.07	0.37
200604	0.94	-1.23	3.08	0.36
200605	-3.53	-2.99	2.78	0.43
200606	-0.44	-0.49	1.50	0.40
200607	-0.59	-3.94	3.30	0.40
200608	2.09	0.81	-1.73	0.42
200609	1.53	-1.21	-0.43	0.41
200610	3.30	1.65	0.48	0.41
200611	1.95	0.73	0.51	0.42
200612	0.68	-0.89	2.54	0.40
200701	1.50	0.06	-0.10	0.44
200701	-1.78	1.43	0.24	0.38
200703	0.87	-0.23	0.43	0.43
200704	3.55	-2.09	-0.96	0.44
200705	3.48	-0.06	-0.09	0.41
200706	-1.87	0.67	-1.03	0.40
200707	-3.57	-2.70	-2.93	0.40
200708	0.75	-0.14	-2.37	0.42
200709	3.77	-2.47	-2.13	0.32
200710	2.26	0.09	-1.92	0.32
200711	-5.27	-2.73	-1.02	0.34
200712	-0.70	0.07	-0.05	0.27
200801	-6.44	-0.76	3.01	0.21
200802	-2.33	-0.55	0.05	0.13
200803	-1.21	0.86	0.17	0.17
200803	4.94			
		-1.55	0.07	0.17
200805	2.22	2.84	-0.26	0.17
200806	-8.03	1.05	-1.06	0.17
200807	-1.47	3.74	3.59	0.15
200808	0.99	3.79	1.48	0.12
200809	-9.96	-0.23	4.42	0.15
200810	-18.54	-2.17	-3.07	0.08
200811	-8.55	-3.57	-4.99	0.02
200812	2.06	3.99	-1.18	0.09
200901	-7.75	-0.90	-9.93	0.00
200902	-10.12	-0.41	-6.75	0.01
200903	8.76	0.75	2.57	0.01
200904	11.04	5.16	5.68	0.01
200905	6.73	-2.64	0.45	0.00
200906	-0.28	2.65	-2.45	0.00
200907	8.24	2.47	4.82	0.01
200908	3.19	-0.56	7.68	0.01
200909	4.52	2.33	1.47	0.00
200910	-2.84	-4.28	-4.37	0.00
200911	5.74	-2.84	0.13	0.00
200912	2.92	5.89	0.72	0.00
201001	-3.71	0.43	0.57	0.00
201002	3.54	1.39	2.75	0.00
201003	6.44	1.57	2.01	0.00
201004	2.02	5.01	3.14	0.00
201005	-8.00	-0.01	-2.36	0.01

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                    6.16
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194302	4.71	6.19	6.31	3.79	9.52
194303	5.68	6.24	3.64	4.40	9.93
194304	1.01	-0.32	2.78	1.25	2.22
194305	6.73	5.43	5.30	5.02	5.52
194306	3.58	1.26	2.43	0.48	-0.80
194307	-4.50	-4.94	-3.44	-3.08	-5.09
194308	2.33	0.90	0.64	0.29	1.37
194309	2.21	2.38	3.15	3.94	2.22
194310	-1.34	-1.07	-1.14	0.50	-1.10
194311	-4.62	-6.65	-3.83	-3.98	-7.85
194312	6.57	6.51	5.27	3.76	7.17
194401	2.37	1.27	0.72	0.33	4.46
194402	1.29	-0.04	-0.45	-2.60	2.08
194403	3.26	2.06	2.03	2.48	2.66
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				3.89	
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194407 194408	-1.88		-1.04	-1.32	-0.82
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194411	1.90	1.25	1.08	0.39	4.32
194412	2.92	4.34	2.52	1.65	8.41
194501	1.18	3.75	-0.82	0.39	0.60
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194506	-1.23	0.26	0.42	-4.68	4.35
194507	-1.10	-2.74	0.36	-1.62	-5.40
194508	8.40	5.90	5.35	9.30	2.47
194509	4.96	4.99	2.64	6.57	6.06
194510	4.44	3.87	1.57	6.39	5.72
194511	4.08	5.87	3.02	8.62	9.00
194512	1.86	0.73	1.48		0.11
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194603	6.39	7.28	1.61	14.71	4.63
194604	4.37	5.55	1.52	14.91	1.56
194605	3.47	4.28	3.90	5.58	3.57
194606	-5.64	-3.34	-2.38	-5.50	-3.30
194607	-2.37	-2.35	-1.66	-3.14	
194608	-6.49	-6.18	-6.87	-3.22	-6.64
194609	-10.28	-9.45	-7.14	-7.02	-14.32
194610	-1.48	-1.07	-4.09	-0.28	-0.20
194611	-2.26	1.30	-0.06		0.37
194612	4.76	5.89	4.23	7.40	2.78
194701	3.83	0.28	2.97		0.50
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194704	-6.20	-3.89	-2.50	-8.46	-6.32

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195202	-1.59	-3.00	-1.99	-4.25	-1.58
195203	4.10	4.89	3.24	0.45	5.85
195204	-2.75	-6.27	-2.09	-5.50	-3.39
195205	2.98	3.80	1.99	2.52	2.94
195206	3.68	4.22	4.00	-0.96	4.02
195207	1.70	1.03	0.82	-4.38	1.14
195208	1.06	-1.46	0.34	-0.57	-0.14
195209	-1.45	-2.46	0.34	-4.09	-1.37
195210	-0.23	-0.57	-0.07	-1.49	-1.57
195211	5.59	5.80	6.58	7.22	7.27
195212	3.59	3.18	1.98	-1.95	3.73
195301	0.93	-0.53	-0.68	-5.11	1.08
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195303	-2.68	-0.97	-0.59	-0.17	-1.44
195304	-0.93	-3.55	-0.70	-5.34	-3.21
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195306	-2.25	-1.69	-0.78	-3.31	-2.05
195307	1.91	3.19	1.58	3.66	1.43
195308	-4.25	-4.53	-2.52	0.05	-6.77
195309	-0.11	0.25	2.50	0.42	-0.99
195310	3.06	5.59	4.12	2.66	3.69
195311	1.13	3.24	3.59	7.98	2.77
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			0.60	-1.34	-2.30
195401	4.23	5.58	4.30	5.65	6.64
195402	0.64	1.67	3.79	-0.19	1.54
195403	1.88	4.31	5.31	0.28	1.80
195404	2.21	5.03	5.69	1.20	2.87
195405	3.23	3.65	0.35	1.61	4.39
195406	1.26	0.09	5.45	-2.43	1.50
195407	6.92	4.95	1.72	8.21	6.83
195408	-2.19	-2.09	-3.15	-2.56	-2.26
195409	8.02	6.76	4.55	2.82	4.32
195410	-1.70	-1.88	-1.45	-1.62	0.59
195411	6.04	10.47	8.62	12.56	11.15
195412	4.88	6.00	2.40	6.12	9.36
195501	0.86	0.30	2.30	-2.88	0.89
195502	0.43	3.54	4.23	2.85	3.77
195503	-0.69	-0.01	-0.70	6.09	0.93
195504	4.10	2.88	3.89	0.02	3.43
195505	0.12	1.39	0.59	3.15	1.63
195506	5.96	8.76	1.85	0.17	2.37
195507	9.49	0.76	-0.27	0.13	-1.42
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195511	6.65	7.46	5.97	6.29	8.30
195512	-1.78	2.70	2.97	6.23	-0.65
195601	-4.55	-2.37	-1.96	-6.50	-2.76
195602	3.54	4.26	3.36	8.27	3.37
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196104	-0.92	0.86	0.63	-0.30	0.57
196105	3.00	2.95	0.99	2.28	4.18
196106	-0.92	-3.00	-3.65	-3.38	-3.75
196107	3.73	2.52	3.99	3.50	1.26
196108	3.46	2.19	2.41	3.86	5.22
196109	1.53	-3.62	-1.18	-1.23	-1.86
196110	4.04	2.68	1.89	3.66	2.32
196111	6.61	3.69	5.49	3.14	3.85
196112	-0.50	0.01	1.20	-1.99	-1.83
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196211	9.81	11.10	10.74	17.59	14.77
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196301	6.08	4.75	4.88	5.66	5.24
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196309	-0.41	-2.05	1.49	-4.07	-3.17
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196503	0.16	-1.57	-1.18	-0.92	-0.38
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198103	8.61	1.82	3.81	5.90	8.41
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198212	0.58	3.05	1.47	0.58	-1.51
198301	1.50	4.32	9.60	1.42	2.82
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199301	0.69	1.16	3.11	-6.83	3.37
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199310	5.70	0.67	2.01	5.96	-2.36
199311	0.65	-2.12	-3.03	0.97	-2.85
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199501	0.63	1.05	1.26	6.16	4.76
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199512	0.84	3.06	-1.15	5.98	1.11
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200903 8.67 5.12 10.46 7.08 12.88 200904 9.12 9.69 11.71 -0.95 16.05 200905 1.99 7.46 2.66 6.21 7.27 200906 0.30 -2.00 3.82 3.61 -1.93 200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08	200901	-6.89	-5.26	-5.11	-2.18	-17.76
200904 9.12 9.69 11.71 -0.95 16.05 200905 1.99 7.46 2.66 6.21 7.27 200906 0.30 -2.00 3.82 3.61 -1.93 200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08	200902	-5.39	-12.71	-5.50	-9.95	-14.39
200905 1.99 7.46 2.66 6.21 7.27 200906 0.30 -2.00 3.82 3.61 -1.93 200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08	200903	8.67	5.12	10.46	7.08	12.88
200906 0.30 -2.00 3.82 3.61 -1.93 200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08	200904	9.12	9.69	11.71	-0.95	16.05
200906 0.30 -2.00 3.82 3.61 -1.93 200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08	200905	1.99	7.46	2.66	6.21	7.27
200907 7.66 7.80 7.65 5.45 9.08 200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08		0.30				
200908 2.44 1.67 1.99 2.17 7.69 200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
200909 3.14 5.31 5.46 2.41 3.17 200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
200910 -0.27 -0.90 -1.96 -3.74 -5.37 200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
200911 4.90 5.35 5.20 8.21 5.65 200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
200912 2.45 2.06 6.05 2.46 0.72 201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
201001 -1.94 -4.04 -7.56 0.00 -0.59 201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
201002 3.91 3.24 4.35 0.38 3.63 201003 6.34 4.73 6.89 3.64 8.08						
201003 6.34 4.73 6.89 3.64 8.08						
201004 1.51 3.29 2.48 -2.1/ 1.82						
	∠∪⊥∪∪4	1.51	3.29	∠.48	-2.17	1.82

```
201005 -5.75 -8.91 -7.36 -8.07 -8.72
201006 -6.58 -5.23 -5.63 -1.58 -6.46
201007
      6.38
             8.53
                    8.49
                           2.11
                                  6.79
201008 -3.27 -3.83 -5.46 -1.62 -7.06
201009 9.79 8.85 11.37
                          9.04
                                 8.49
       3.58
201010
             4.39
                    5.98
                           1.93
                                  2.03
201011 2.79 2.50 -0.99 -3.33
                                 0.53
201012 4.10 7.29 6.18
                          5.43
                                  9.18
201101 -1.33 4.36 3.15 -0.59
                                  2.09
201102 2.86 4.86
                    3.42
                          3.37
                                  2.95
201103 1.80 1.74 -0.74 2.40 -1.06
201104 4.36 2.44 3.14 6.32
                                 1.08
      0.91 -2.60 -1.18
201105
                          2.00 - 2.64
201106 -0.94 -1.32 -2.17 -1.86 -2.13
201107 -1.32 -2.07 -1.59 -3.57 -3.69
201108 -2.87 -6.76 -6.40 -3.31 -8.16
201109 -5.08 -9.99 -4.97 -4.07 -11.07
                          5.54 13.61
201110 9.37 13.66 10.79
201111 0.42
             1.43 - 1.44
                          1.47 -2.00
      1.12 -0.05 -0.45
201112
                           3.43
                                  1.38
1;
% You could now save the matlab data object 'lab3.mat' using
% File --> Save Workspace as -->
% Or use the command:
% save lab3.mat
% If you want to clear the workspace of all variables use the command:
% clear
% You can load it again with:
% load lab3.mat;
rf=FFmat(:,5); % risk-free rate
ex_mark_ret=FFmat(:,2); % excess market return
cnsmr_ret=indmat(:,2); % return on consumer portfolio
cnsmr ex ret=cnsmr ret-rf; % excess return
manuf_ret=indmat(:,3);manuf_ex_ret=manuf_ret-rf;
hitech ret=indmat(:,4); hitech ex ret=hitech ret-rf;
health_ret=indmat(:,5);health_ex_ret=health_ret-rf;
other_ret=indmat(:,6);other_ex_ret=other_ret-rf;
hml=FFmat(:,4);smb=FFmat(:,3);
                 SMB用于解释投资组合回报。这个因素也被称为·小企业效应·,或·规模效应·,
```

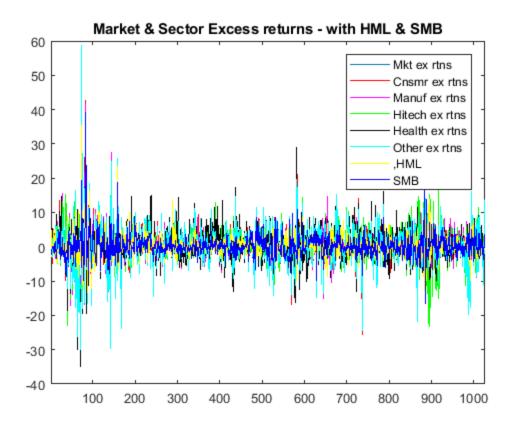
high minus low (溢价) sue用于解释投资组合回报。这个因素也被称为小企业效应,或规模效应, (a) Plot of excess returns and summary stats

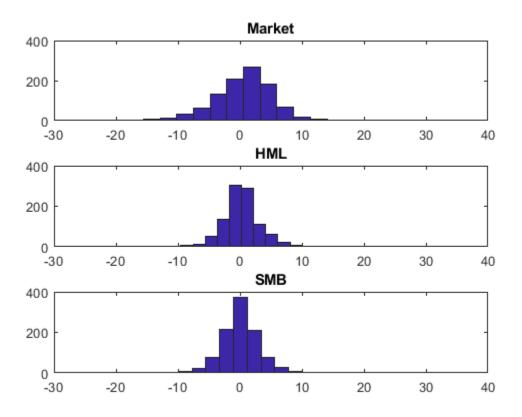
Plot all excess returns on the one plot with HML and SMB

```
figure;plot(ex_mark_ret);hold on;plot(cnsmr_ex_ret,'r');
plot(manuf_ex_ret,'m');plot(hitech_ex_ret,'g');
plot(health_ex_ret,'k');plot(other_ex_ret,'c');
plot(hml,'y');plot(smb,'b');
title('Market & Sector Excess returns - with HML & SMB');
legend('Mkt ex rtns','Cnsmr ex rtns','Manuf ex rtns','Hitech ex rtns','Health ex rtns','Other ex rtns',',HML','SMB');
xlim([1 length(ex_mark_ret)]);
```

```
% You can change the colours, line widths and other propoerties for
plot.
% Descriptive stats for each return series
[mean(ex_mark_ret) median(ex_mark_ret) std(ex_mark_ret)
min(ex_mark_ret) max(ex_mark_ret) skewness(ex_mark_ret)
kurtosis(ex mark ret);
mean(cnsmr_ex_ret) median(cnsmr_ex_ret) std(cnsmr_ex_ret)
min(cnsmr_ex_ret) max(cnsmr_ex_ret) skewness(cnsmr_ex_ret)
kurtosis(cnsmr_ex_ret);
mean(manuf_ex_ret) median(manuf_ex_ret) std(manuf_ex_ret)
min(manuf ex ret) max(manuf ex ret) skewness(manuf ex ret)
kurtosis(manuf_ex_ret);
mean(hitech ex ret) median(hitech ex ret) std(hitech ex ret)
min(hitech_ex_ret) max(hitech_ex_ret) skewness(hitech_ex_ret)
kurtosis(hitech ex ret);
mean(health_ex_ret) median(health_ex_ret) std(health_ex_ret)
min(health_ex_ret) max(health_ex_ret) skewness(health_ex_ret)
kurtosis(health ex ret);
mean(other_ex_ret) median(other_ex_ret) std(other_ex_ret)
min(other_ex_ret) max(other_ex_ret) skewness(other_ex_ret)
kurtosis(other_ex_ret);
mean(hml) median(hml) std(hml) min(hml) max(hml) skewness(hml)
kurtosis(hml);
mean(smb) median(smb) std(smb) min(smb) max(smb) skewness(smb)
kurtosis(smb)]
% you could also use histograms or boxplots here; e.g.:
figure;subplot(3,1,1);hist(ex_mark_ret,25);title('Market');xlim([-30
 40]);
subplot(3,1,2);hist(hml,25);title('HML');xlim([-30 40]);
subplot(3,1,3);hist(smb,25);title('SMB');xlim([-30 40]);
ans =
   0.6175
             0.9550
                       5.4572 -29.0400
                                          38.2700
                                                     0.1685
                                                               10.3983
    0.6940
             0.9100
                       5.3856 -28.2000
                                           42.5900
                                                               10.1566
                                                     0.1153
                       5.5966 -29.8400
    0.6820
             0.9100
                                          41.5300
                                                     0.3579
                                                              11.0530
    0.6257
             0.8900
                       5.6908 -26.7700
                                          33.8000
                                                    -0.1695
                                                               6.5058
    0.7735
             0.7350
                       5.7350 -34.8000
                                          38.5600
                                                     0.1798
                                                              10.1047
    0.5860
             0.9350
                       6.5587
                               -30.0500
                                          58.7100
                                                     0.8929
                                                              15.8557
    0.3822
             0.2250
                       3.5674 -13.4500
                                          35.4800
                                                     1.8328
                                                              18.5977
    0.2415
             0.0600
                       3.3151 -16.6200
                                          39.0400
                                                     2.1781
                                                              25.1477
```

% Note: If you select a plot you can openView-->Property Editor



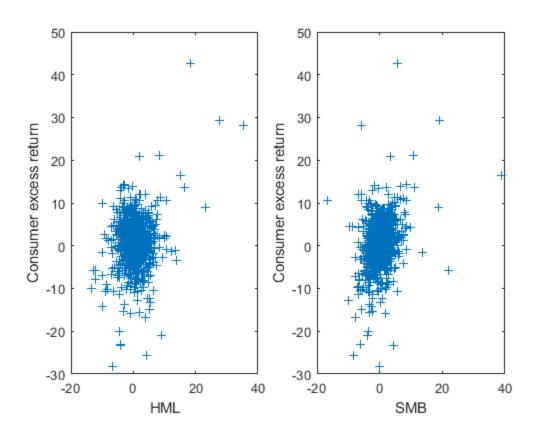


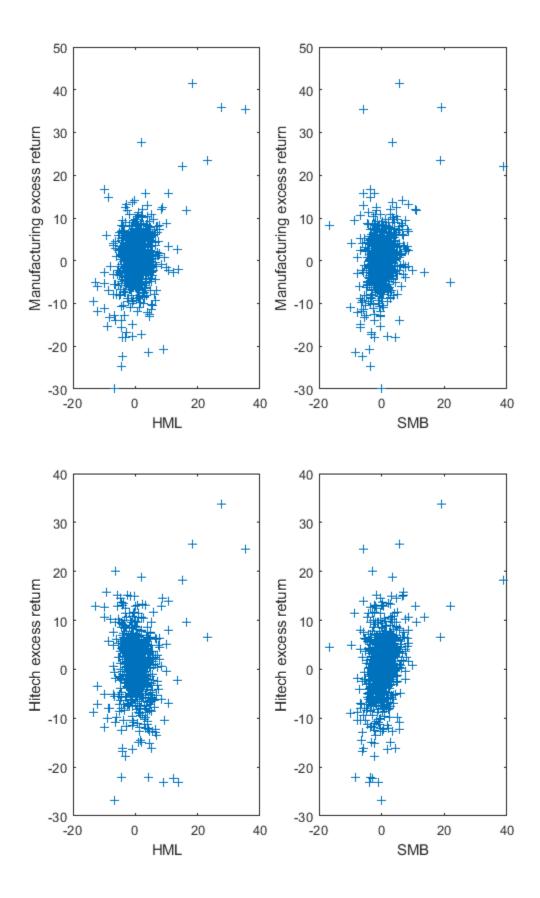
(b) Scatterplots and correlations between the industry excess returns and both SMB and HML

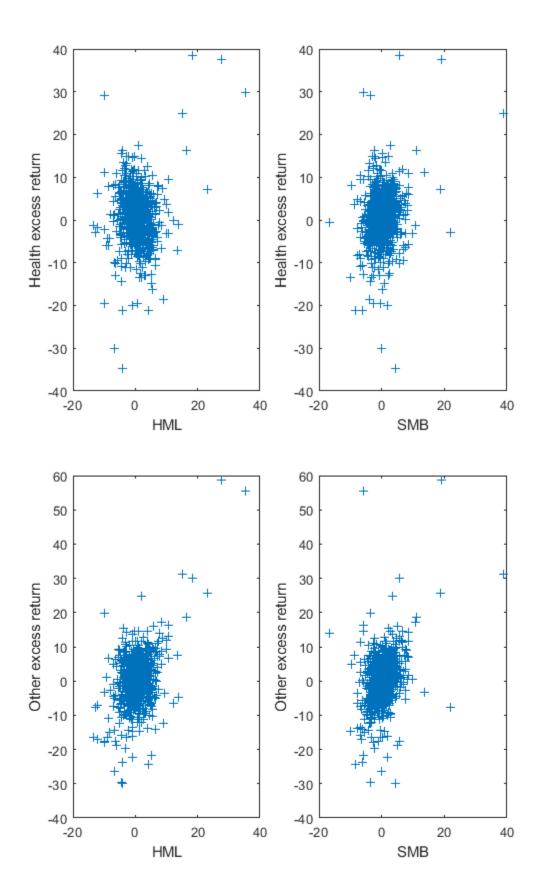
Scatterplots of industry excess returns against HML and SMB

```
% Consumer vs HML and Consumer vs SMB
figure; subplot(1,2,1); plot(hml,cnsmr_ex_ret,'+');
xlabel('HML');
                                      % Add title for X-axis
ylabel('Consumer excess return');
                                      % Add title for Y-axis
subplot(1,2,2);plot(smb,cnsmr_ex_ret,'+');
xlabel('SMB');
                                       % Add title for X-axis
                                     % Add title for Y-axis
ylabel('Consumer excess return');
% Manufacturing
figure;subplot(1,2,1);plot(hml,manuf_ex_ret,'+');
xlabel('HML');ylabel('Manufacturing excess return');
subplot(1,2,2);plot(smb,manuf_ex_ret,'+');
xlabel('SMB');ylabel('Manufacturing excess return');
% Hitech
figure; subplot(1,2,1); plot(hml,hitech_ex_ret,'+');
xlabel('HML');ylabel('Hitech excess return');
subplot(1,2,2);plot(smb,hitech_ex_ret,'+')
xlabel('SMB');ylabel('Hitech excess return');
% Health
figure; subplot(1,2,1); plot(hml, health_ex_ret, '+');
xlabel('HML');ylabel('Health excess return');
subplot(1,2,2);plot(smb,health_ex_ret,'+')
xlabel('SMB');ylabel('Health excess return');
% Other
figure; subplot(1,2,1); plot(hml,other_ex_ret,'+');
xlabel('HML');ylabel('Other excess return');
subplot(1,2,2);plot(smb,other_ex_ret,'+')
xlabel('SMB');ylabel('Other excess return');
% Calculate correlations between industry excess returns and HML
% The function corrcoef() calculates correlation coefficient, r, and
reports the p-value for the test H0:r=0
[rch,pch]=corrcoef(hml,cnsmr_ex_ret);
[rmh,pmh]=corrcoef(hml,manuf_ex_ret);
[rhih,phih]=corrcoef(hml,hitech_ex_ret);
[rheh,pheh]=corrcoef(hml,health_ex_ret);
[roh,poh]=corrcoef(hml,other_ex_ret);
% Display correlations
[rch(2,1) \ rmh(2,1) \ rhih(2,1) \ rheh(2,1) \ roh(2,1); \ pch(2,1) \ pmh(2,1)
 pheh(2,1) phih(2,1) poh(2,1)
% r and p here are given as 2 by 2 symmetric matrices. The (2,1) and
 (1,2) elements
% are the same and are the values we want.
% Again calculate correlations - now for smb
```

```
[rcs,pcs]=corrcoef(smb,cnsmr_ex_ret);
                                         % calculates correlation
coefficient and reports p-value from test that rho=0
[rms,pms]=corrcoef(smb,manuf_ex_ret);
[rhis,phis]=corrcoef(smb,hitech_ex_ret);
[rhes,phes]=corrcoef(smb,health_ex_ret);
[ros,pos]=corrcoef(smb,other_ex_ret);
[rcs(2,1) \ rms(2,1) \ rhis(2,1) \ rhes(2,1) \ ros(2,1); \ pcs(2,1) \ pms(2,1)
phes(2,1) phis(2,1) pos(2,1)
% r and p here are given as 2 by 2 matrices. The (2,1) and (1,2)
elements
% are the same and are the values we want.
ans =
    0.2088
              0.3130
                         0.0125
                                   0.0697
                                              0.4041
    0.0000
              0.0000
                         0.0257
                                   0.6889
                                              0.0000
ans =
    0.3160
              0.2697
                         0.3142
                                   0.2139
                                              0.3438
    0.0000
              0.0000
                         0.0000
                                   0.0000
                                              0.0000
```







(c) Fit Multi-Factor Model

```
xmat=[ones(length(ex_mark_ret),1) ex_mark_ret hml smb]; % creates X
 matrix for regression with three factors
% the first column of X is a column of ones for the intercept, the
% remaining 3 columns are the excess market return, HML and SMB
[Bc,BINTc,Rc,RINTc,STATSc] = regress(cnsmr_ex_ret,xmat);
                                                          % runs OLS
 regression
% Bc contains slope coefficients, BINTc has 95% confidence intervals
Rc has the residuals,
% RINTc contains 95% confidence intervals for the standardised
 residuals if these intervals do not contain zero then data point
 might be an outlier
% STATSc contains in order the following stats: R^2 statistic, the F
 statistic and its p value, and an estimate of the error variance
                     % estimates of average return from regression
cnsmr_est=xmat*Bc;
[Bm,BINTm,Rm,RINTm,STATSm] = regress(manuf_ex_ret,xmat); % runs OLS
 regression
manuf_est=xmat*Bm;
[Bhi,BINThi,Rhi,RINThi,STATShi] = regress(hitech_ex_ret,xmat);
 runs OLS regression
hitech est=xmat*Bhi;
[Bhe,BINThe,Rhe,RINThe,STATShe] = regress(health_ex_ret,xmat);
runs OLS regression
health_est=xmat*Bhe;
[Bo,BINTo,Ro,RINTo,STATSo] = regress(other_ex_ret,xmat); % runs OLS
 regression
other_est=xmat*Bo;
% Print Coefficients and std errors
[Bc(1) BINTc(1,:) Bc(2) BINTc(2,:) Bc(3) BINTc(3,:) Bc(4) BINTc(4,:);
 Bm(1) BINTm(1,:) Bm(2) BINTm(2,:) Bm(1) BINTm(1,:) Bm(2) BINTm(2,:);
 Bhi(1) BINThi(1,:) Bhi(2) BINThi(2,:) Bhi(3) BINThi(3,:) Bhi(4)
 BINThi(4,:);
 Bhe(1) BINThe(1,:) Bhe(2) BINThe(2,:) Bhe(3) BINThe(3,:) Bhe(4)
 BINThe(4,:);
 Bo(1) BINTo(1,:) Bo(2) BINTo(2,:) Bo(3) BINTo(3,:) Bo(4) BINTo(4,:)]
ans =
  Columns 1 through 7
    0.1244
              0.0061
                        0.2426
                                  0.9213
                                            0.8980
                                                      0.9445
                                                               -0.0058
    0.0383
            -0.0492
                        0.1259
                                  0.9815
                                            0.9643
                                                      0.9987
                                                               0.0383
    0.1321
             0.0013
                        0.2629
                                  0.9868
                                            0.9611
                                                      1.0125
                                                               -0.3260
    0.3181
             0.1113
                        0.5248
                                  0.8917
                                            0.8511
                                                      0.9323
                                                               -0.1888
                                  1.0549
                                            1.0314
                                                      1.0785
                                                                0.3706
   -0.2231
             -0.3428
                       -0.1034
  Columns 8 through 12
   -0.0395
              0.0279
                        0.0124 -0.0251
                                            0.0498
```

```
      -0.0492
      0.1259
      0.9815
      0.9643
      0.9987

      -0.3633
      -0.2887
      0.0367
      -0.0047
      0.0781

      -0.2478
      -0.1299
      -0.0954
      -0.1608
      -0.0299

      0.3364
      0.4047
      0.0663
      0.0284
      0.1042
```

(e) Plots of regression lines and residuals to examine fit

```
% Consumer
% Plot of Consumer excess return vs Market excess return with
regression
% line and predicted values
figure; subplot(1,2,1); plot(ex_mark_ret,cnsmr_ex_ret,'+'); lsline;
hold on;plot(ex_mark_ret,cnsmr_est,'mo');
xlabel('Market excess return');ylabel('Consumer excess return');
% Plot of residuals for consumer model against excess market return
subplot(1,2,2);plot(ex_mark_ret,cnsmr_ex_ret-cnsmr_est,'+');
xlabel('Market excess return');ylabel('Consumer residual');
% Manufacturing
figure;subplot(1,2,1);plot(ex_mark_ret,manuf_ex_ret,'+');lsline;
hold on;plot(ex_mark_ret,manuf_est,'mo');
xlabel('Market excess return');ylabel('Manufacturing excess return');
subplot(1,2,2);plot(ex_mark_ret,manuf_ex_ret-manuf_est,'+');
xlabel('Market excess return');ylabel('Manufacturing residual');
% Hitech
figure; subplot(1,2,1); plot(ex_mark_ret,hitech_ex_ret,'+'); lsline;
hold on;plot(ex_mark_ret,hitech_est,'mo');
xlabel('Market excess return');ylabel('Hitech excess return');
subplot(1,2,2);plot(ex_mark_ret,hitech_ex_ret-hitech_est,'+')
xlabel('Market excess return');ylabel('Hitech residual');
% Health
figure; subplot(1,2,1); plot(ex_mark_ret,health_ex_ret,'+'); lsline;
hold on;plot(ex_mark_ret,health_est,'mo');
xlabel('Market excess return');ylabel('Health excess return');
subplot(1,2,2);plot(ex_mark_ret,health_ex_ret-health_est,'+')
xlabel('Market excess return');ylabel('Health residual');
% Other
figure; subplot(1,2,1); plot(ex_mark_ret,other_ex_ret,'+'); lsline;
hold on;plot(ex_mark_ret,other_est,'mo');
xlabel('Market excess return');ylabel('Other excess return');
subplot(1,2,2);plot(ex_mark_ret,other_ex_ret-other_est,'+')
xlabel('Market excess return');ylabel('Other residual');
% Regression model stats for strength of fit: R-Squared, Adjusted R-
squared and standard error of regression
```

```
[STATSc(1) 1-STATSc(4)/var(cnsmr_ex_ret) sqrt(STATSc(4));STATSm(1) 1-
STATSm(4)/var(manuf_ex_ret) sqrt(STATSm(4));STATShi(1) 1-STATShi(4)/
var(hitech_ex_ret) sqrt(STATShi(4));
    STATShe(1) 1-STATShe(4)/var(health_ex_ret)
sqrt(STATShe(4));STATSo(1) 1-STATSo(4)/var(other_ex_ret)
sqrt(STATSo(4))] % shows R^2 and SER
```

ans =

0.8746	0.8742	1.9101
0.9363	0.9361	1.4145
0.8625	0.8621	2.1134
0.6619	0.6609	3.3396
0.9133	0.9131	1.9336

