

YEAR 2016:

Excel screenshot showing stock data for 2016. The data is organized by date and includes columns for Ticker, Yearly Change, Percent Change, and Total Stock Amount. The interface shows the ribbon, toolbars, and a Mac OS X dock at the bottom.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change		Total Stock Aoun	
2	A	20160101	41.81	41.81	41.81	41.81	0		A	3.75000000	9.00%	528576200		
3	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	-1.53000000	-5.00%	5208239000		
4	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82000000	-62.00%	57179800		
5	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.60000000	43.00%	184809000		
6	A	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61000000	12.00%	262665300		
7	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73000000	12.00%	49026400		
8	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.67000000	33.00%	27358200		
9	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	-0.40000000	-2.00%	64736300		
10	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.34000000	19.00%	503779400		
11	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	3.38000000	6.00%	2034231800		
12	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.52000000	-25.00%	647239900		
13	A	20160118	37.11	37.11	37.11	37.11	0		ABEV	0.45000000	10.00%	4199335100		
14	A	20160119	37.64	37.92	36.79	37.2	2506500		ABG	-5.74000000	-9.00%	89828200		
15	A	20160120	36.68	37.61	36.13	37.26	2469000		ABM	12.37000000	43.00%	79787400		
16	A	20160121	37.35	37.83	36.81	37.23	2298300		ABR	0.31000000	4.00%	27556100		
17	A	20160122	37.91	38.18	37.58	37.98	1834400		ABR-A	0.57000000	2.00%	792500		
18	A	20160125	37.4	38.03	37.4	37.61	1831200		ABR-B	2.02000000	9.00%	795300		
19	A	20160126	37.89	37.96	37.36	37.51	1755000		ABR-C	0.18000000	1.00%	521300		
20	A	20160127	37.39	37.92	36.81	37.05	1479400		ABRN	0.70000000	3.00%	1759800		
21	A	20160128	37.27	37.27	36.01	36.11	3479400		ABT	-6.50000000	-14.00%	2298099600		
22	A	20160129	36.44	37.69	36.31	37.65	2959800		ABX	8.60000000	117.00%	4996990800		
23	A	20160201	37.37	37.95	37	37.69	2666500		AC	2.35000000	8.00%	6530000		
24	A	20160202	37.18	37.55	36.95	37.07	1742300		ACC	8.43000000	20.00%	258457600		
25	A	20160203	37.27	37.36	36.29	37.19	2128400		ACCO	5.92000000	83.00%	163653100		
26	A	20160204	37.15	37.79	36.97	37.42	2833400		ACH	1.97000000	24.00%	11563400		
27	A	20160205	37.26	37.21	35.82	36.04	4424600		ACM	6.32000000	21.00%	296759000		

Excel screenshot showing stock data for 2016. The data is organized by date and includes columns for Ticker, Yearly Change, Percent Change, and Total Stock Aoun. The interface shows the ribbon, toolbars, and a Mac OS X dock at the bottom.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change		Total Stock Aoun	
873	AAN	20160429	25.25	26.56	24.52	26.21	1500300		DTF	-0.68000000	-5.00%	5381800		
874	AAN	20160502	26.33	26.96	26.06	26.49	1036300		DTJ	-2.39000000	-10.00%	13452300		
875	AAN	20160503	26.49	26.55	25.78	26.11	648100		DTK	-1.48000000	-6.00%	96783200		
876	AAN	20160504	25.98	26.33	25.53	25.65	541900		DTLP	2.86000000	15.00%	3846600		
877	AAN	20160505	25.78	25.98	25.19	25.36	486300		DTQ	-0.87000000	-4.00%	4062400		
878	AAN	20160506	25.32	25.6	24.99	25.54	349100		DTV	2.25000000	4.00%	6292500		
879	AAN	20160509	25.54	25.86	25.39	25.59	384500		DTY	1.46000000	6.00%	2350900		
880	AAN	20160510	25.66	25.75	25.4	25.59	272800		DTZ	-1.43000000	-5.00%	8958600		
881	AAN	20160511	25.4	25.46	24.51	24.61	505200		DUC	0.25000000	3.00%	9776900		
882	AAN	20160512	24.78	24.85	24.53	24.76	412100		DUK	6.23000000	9.00%	837276800		
883	AAN	20160513	24.53	24.76	24.04	24.1	325500		DUKH	-1.73000000	-7.00%	8765900		
884	AAN	20160516	24.12	24.38	23.9	24.14	424700		DV	5.89000000	23.00%	232255100		
885	AAN	20160517	24.12	24.38	23.72	23.81	430400		DVA	-5.51000000	-8.00%	383978500		
886	AAN	20160518	23.64	23.91	23.34	23.41	487600		DVD	-0.03000000	-1.00%	3694400		
887	AAN	20160519	23.23	24.02	23.13	23.78	481500		DVMT	9.90000000	22.00%	220744200		
888	AAN	20160520	23.78	23.88	23.47	23.67	1204400		DVN	13.67000000	43.00%	2361469400		
889	AAN	20160523	23.66	24.12	23.66	23.78	627200		DW	46.86000000	77.00%	50668700		
890	AAN	20160524	24.21	24.39	24.12	24.17	539200		DX	0.47000000	7.00%	6290400		
891	AAN	20160525	24.26	24.67	24.21	24.47	694400		DX-A	1.73000000	7.00%	1061700		
892	AAN	20160526	24.7	24.94	24.44	24.57	559000		DX-B	2.02000000	9.00%	1334200		
893	AAN	20160527	24.53	25.07	24.53	25.02	587200		DXB	-1.69000000	-7.00%	53642500		
894	AAN	20160530	25.02	25.02	25.02	25.02	0		DY	10.33000000	15.00%	202448800		
895	AAN	20160531	25.02	25.38	24.94	25.1	621400		DYN	-4.94000000	-37.00%	89999600		
896	AAN	20160601	24.95	25.18	24.81	25.1	532300		DYN-A	-18.67000000	-37.00%	7513800		
897	AAN	20160602	25.01	25.14	24.51	24.96	482500		DYN.W	-0.43000000	-91.00%	7575100		
898	AAN	20160603	24.98	25.24	24.32	25.06	615400		DYNC	-34.22000000	-36.00%	4929200		
899	AAN	20160605	25.05	25.22	24.74	24.70	586300		DYD	-2.44000000	-8.00%	117078200		

Excel File Edit View Insert Format Tools Data Window Help

Multiple_year_stock_data moderate challenge

K3018 A B C D E F G H I J K L M

	A	B	C	D	E	F	G	H	I	J	K	L	M
2349	ABB	20161219	21.05	21.14	20.98	21.14	2634500		PSA-Z	-1.50000000	-6.00%	6226100	
2350	ABB	20161220	21.07	21.18	21.06	21.18	4064900		PSB	29.09000000	33.00%	30069100	
2351	ABB	20161220	21.07	21.18	21.06	21.18	4064900		PSB-S	-1.27000000	-5.00%	5167000	
2352	ABB	20161221	21.02	21.17	20.99	21.05	3108100		PSB-T	-1.23000000	-5.00%	9200000	
2353	ABB	20161222	21.12	21.23	21.08	21.19	3475200		PSB-U	-1.82000000	-7.00%	4210400	
2354	ABB	20161223	21.1	21.13	21.03	21.04	1019100		PSB-V	-1.72000000	-7.00%	2033600	
2355	ABB	20161226	21.04	21.04	21.04	21.04	0		PSB-W	-3.45000000	-14.00%	4745100	
2356	ABB	20161227	21.04	21.13	21.02	21.08	675500		PSF	1.25000000	5.00%	10734400	
2357	ABB	20161228	21.23	21.23	21.01	21.04	1314100		PSO	-0.79000000	-7.00%	112530200	
2358	ABB	20161229	21.14	21.17	21.06	21.08	1474500		PSTG	-4.26000000	-27.00%	329624900	
2359	ABB	20161230	21.26	21.27	21.04	21.07	1387900		PSX	4.61000000	6.00%	759748900	
2360	ABBV	20160101	59.24	59.24	59.24	59.24	0		PSXP	-12.76000000	-21.00%	126891200	
2361	ABBV	20160104	58.06	58.32	56.4	57.61	10308300		PTHN	3.71000000	15.00%	59922300	
2362	ABBV	20160105	57.99	58.25	56.82	57.37	7179600		PTR	8.11000000	12.00%	35743200	
2363	ABBV	20160106	56.37	57.56	56.18	57.38	8952600		PTY	0.97000000	7.00%	58102800	
2364	ABBV	20160107	56.52	57.84	56.34	57.21	9292600		PUK	-5.29000000	-12.00%	172309200	
2365	ABBV	20160108	57.55	57.81	55.48	55.65	7985200		PUK-A	-1.38000000	-5.00%	4127200	
2366	ABBV	20160111	55.86	55.98	52.83	53.88	10483200		PUK-P	-1.01000000	-4.00%	3498900	
2367	ABBV	20160112	54.47	54.97	53.57	54.84	6799500		PVG	3.20000000	63.00%	422347500	
2368	ABBV	20160113	54.55	54.62	50.98	51.18	10432200		PVH	16.59000000	23.00%	286938600	
2369	ABBV	20160114	51.32	56.83	50.71	54.56	16704800		PVTD	-0.32000000	-1.00%	1541100	
2370	ABBV	20160115	53.01	57.41	53.01	57.34	27008700		PWE	0.93000000	111.00%	568934600	
2371	ABBV	20160118	57.34	57.34	57.34	57.34	0		PWR	14.60000000	72.00%	633281700	
2372	ABBV	20160119	57.53	57.73	54.23	54.99	13644400		PX	14.79000000	14.00%	343629000	
2373	ABBV	20160120	54.21	57.93	53.7	57.15	11993100		PXD	54.69000000	44.00%	569743900	
2374	ABBV	20160121	57.29	58.77	56.92	58.36	12096900		PYN	-0.25000000	-2.00%	4040000	
2375	ABBV	20160122	59.1	59.43	57.82	59.83	10383800		PYS	2.80000000	-12.00%	701200	

Excel File Edit View Insert Format Tools Data Window Help

Multiple_year_stock_data moderate challenge

I2370 A B C D E F G H I J K L M N

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
2924	EV	20160226	4.51	4.51	4.35	4.37	8342700		UNF	39.45000000	38.00%	26356900		
2925	EV	20160229	4.48	4.48	4.33	4.34	12140000		UNH	42.40000000	36.00%	887099500		
2926	EV	20160301	4.39	4.63	4.39	4.62	21734500		UNM	10.64000000	32.00%	477994100		
2927	EV	20160302	4.6	4.67	4.55	4.65	17186500		UNP	25.48000000	33.00%	1185933400		
2928	EV	20160303	4.72	4.84	4.69	4.84	17030400		UNT	14.67000000	120.00%	274213800		
2929	EV	20160304	5	5.09	4.98	5.08	36782700		UNVR	11.36000000	67.00%	133449500		
2930	EV	20160307	5.01	5.11	4.99	5.04	21879200		UPS	18.41000000	19.00%	681697200		
2931	EV	20160308	5.04	5.05	4.94	5	19437900		URI	33.04000000	46.00%	523968000		
2932	EV	20160309	5.13	5.14	4.99	5	26303100		USA	-0.19000000	-4.00%	136058500		
2933	EV	20160310	5.03	5.12	4.92	5.1	32429600		USAC	5.81000000	51.00%	39989100		
2934	EV	20160311	5.11	5.14	4.96	4.99	27487600		USB	8.70000000	20.00%	1905670700		
2935	EV	20160314	4.93	4.99	4.87	4.91	15133400		USB-A	84.90000000	11.00%	289600		
2936	EV	20160315	4.8	4.91	4.76	4.82	20962800		USB-H	-0.28000000	-1.00%	12536500		
2937	EV	20160316	4.74	4.83	4.63	4.81	16854900		USB-M	-0.43000000	-1.00%	23542300		
2938	EV	20160317	5.05	5.08	4.94	5.05	28963000		USB-N	-1.61000000	-6.00%	18090600		
2939	EV	20160318	5.14	5.15	5.04	5.09	24624200		USB-O	-1.70000000	-7.00%	8518500		
2940	EV	20160321	5.05	5.16	5.03	5.14	19933200		USDP	8.56000000	118.00%	11994200		
2941	EV	20160322	5.1	5.18	5.06	5.15	26053800		USFD	3.23000000	13.00%	151488900		
2942	EV	20160323	5.11	5.16	5.09	5.11	18658300		USG	4.59000000	19.00%	477591000		
2943	EV	20160324	5.08	5.16	5.07	5.12	29371600		USM	2.91000000	7.00%	23187800		
2944	EV	20160325	5.12	5.12	5.12	5.12	0		USNA	-66.55000000	-52.00%	27666000		
2945	EV	20160328	5.23	5.29	5.19	5.27	12356400		USPH	16.52000000	31.00%	21724700		
2946	EV	20160329	5.26	5.32	5.21	5.27	24180400		UTF	0.28000000	1.00%	50095900		
2947	EV	20160330	5.31	5.36	5.22	5.24	16750900		UTI	-1.75000000	-38.00%	29716600		
2948	EV	20160331	5.24	5.27	5.15	5.18	16452700		UTL	9.46000000	26.00%	11466600		
2949	EV	20160401	5.13	5.28	5.09	5.24	15902100		UTX	13.55000000	14.00%	1103228300		

Multiple_year_stock_data_moderate_challenge

The screenshot shows a Microsoft Excel spreadsheet titled "Multiple_year_stock_data_moderate_challenge". The table has 31 columns and 370 rows. The columns are labeled A through N. The first few rows contain data for stocks like ABEV, Y, YDKN, etc., with columns for date, price, volume, and other financial metrics. The data is color-coded, with many cells in the price and volume columns being green or red. The bottom of the screen shows the Mac OS X dock with various application icons.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
3144	ABEV	20161229	4.95	4.97	4.92	4.95	11418300	Y	130.19000000	27.00%	13094100			
3145	ABEV	20161230	4.96	4.97	4.89	4.91	8423400	YDKN	9.09000000	36.00%	76187700			
3146	ABG	20160101	67.44	67.44	67.44	67.44	0	YELP	9.33000000	32.00%	622824500			
3147	ABG	20160104	66.17	67.34	65.74	66.52	219500	YGE	-1.93000000	-43.00%	33557900			
3148	ABG	20160105	66.66	67.06	64.29	65.13	264900	YPF	0.78000000	5.00%	251792500			
3149	ABG	20160106	63.82	63.82	56.99	57.34	1002600	YRD	11.27000000	119.00%	170300400			
3150	ABG	20160107	56.15	57.74	55.58	55.62	491400	YUM	-9.72000000	-13.00%	881741300			
3151	ABG	20160108	55.81	56.48	53.12	53.34	750500	YUMC	1.61000000	7.00%	285699200			
3152	ABG	20160111	53.62	55.9	53.49	55.71	523500	YUME	0.07000000	2.00%	26567800			
3153	ABG	20160112	54.9	54.94	51	52.56	750800	YZC	2.10000000	46.00%	9621600			
3154	ABG	20160113	52.84	53.09	48.61	49.58	645700	ZAYO	6.27000000	24.00%	559325700			
3155	ABG	20160114	49.56	51.56	47.27	50.14	560300	ZB-A	1.24000000	6.00%	1194600			
3156	ABG	20160115	48.54	49.18	46.88	48.06	346400	ZB-F	-1.14000000	-4.00%	3499000			
3157	ABG	20160118	48.06	48.06	48.06	48.06	0	ZB-G	0.56000000	2.00%	5548700			
3158	ABG	20160119	48.46	49.06	44.81	45.97	484200	ZB-H	-0.82000000	-3.00%	2234600			
3159	ABG	20160120	45.47	49	44.81	48.19	493100	ZBH	0.51000000	1.00%	400158300			
3160	ABG	20160121	48.5	49.53	47.2	47.36	376600	ZBK	-0.88000000	-3.00%	1582700			
3161	ABG	20160122	48.27	49.09	47.59	47.97	347100	ZEN	-5.24000000	-20.00%	262437800			
3162	ABG	20160125	49.58	50.94	48.72	49.33	1702600	ZF	-1.05000000	-8.00%	15866500			
3163	ABG	20160126	49.54	49.6	48.34	49.09	3361000	ZNH	-12.44000000	-33.00%	6605600			
3164	ABG	20160127	48.81	49.45	46.47	46.94	820400	ZOES	-3.99000000	-14.00%	126576600			
3165	ABG	20160128	47.28	47.73	44.62	45.81	658200	ZPIN	-0.21000000	-1.00%	14311200			
3166	ABG	20160129	46	47.08	45.57	47.08	630500	ZTO	-6.33000000	-34.00%	188595100			
3167	ABG	20160201	46.48	47.14	45.54	46.75	349600	ZTR	-0.14000000	-1.00%	19990100			
3168	ABG	20160202	45.9	46.34	44.13	45.07	550400	ZTS	5.61000000	12.00%	953569700			
3169	ABG	20160203	45.56	45.98	43.56	45.2	609700	ZX	0.41000000	52.00%	12750500			
3170	DC	20160204	47.82	50.49	46.10	48.62	1151700							

YEAR 2015

Multiple_year_stock_data moderate challenge

The screenshot shows a Microsoft Excel spreadsheet titled "Multiple_year_stock_data moderate challenge". The table has 24 rows and 13 columns. The columns are labeled A through M. Row 1 contains column headers: <ticker>, <date>, <open>, <high>, <low>, <close>, <vol>, Ticker, Yearly Change, Percent Change, and Total Stock Amount. Rows 2 through 24 contain data for individual stocks. Many cells in the "Yearly Change" and "Percent Change" columns are highlighted in green or red, indicating positive or negative growth. The "Total Stock Amount" column shows values ranging from 40441700 to 645319200. The "Percent Change" column shows values ranging from -37.00% to 2.00%. The "Yearly Change" column shows values ranging from -17.14000000 to 0.87000000.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>	Ticker	Yearly Change	Percent Change	Total Stock Amount		
2	A	20150101	40.94	40.94	40.94	40.94	0	A	0.87000000	2.00%	645319200		
3	A	20150102	41.18	41.31	40.37	40.56	1530700	AA	-17.76000000	-37.00%	6449104200		
4	A	20150105	40.32	40.46	39.7	39.8	2042200	AA-B	-17.14000000	-34.00%	40441700		
5	A	20150106	39.81	40.02	39.02	39.18	2084500	AAC	-11.86000000	-38.00%	78122300		
6	A	20150107	39.52	39.81	39.29	39.7	3359600	AAN	-8.18000000	-27.00%	179606700		
7	A	20150108	40.24	40.98	40.18	40.89	2116300	AAP	-8.77000000	-6.00%	266930500		
8	A	20150109	41	41	40.29	40.59	1644900	AAT	-1.46000000	-4.00%	48158100		
9	A	20150112	40.61	40.72	39.95	40.11	2771100	AAV	0.29000000	6.00%	30229400		
10	A	20150113	40.47	40.7	39.33	39.55	2013400	AB	-1.98000000	-8.00%	71403800		
11	A	20150114	39.03	39.1	38.21	39.06	5134000	ABB	-3.42000000	-16.00%	532805500		
12	A	20150115	39.33	39.41	37.99	38.01	2630200	ABBV	-6.20000000	-9.00%	2643021600		
13	A	20150116	37.86	38.46	37.76	38.25	3003900	ABC	13.55000000	15.00%	516218400		
14	A	20150119	38.25	38.25	38.25	38.25	0	ABEV	-1.76000000	-28.00%	3915345800		
15	A	20150120	38.43	38.66	37.76	37.93	5033600	ABG	-8.48000000	-11.00%	82930400		
16	A	20150121	37.75	38.41	37.68	38.16	2721600	ABM	-0.18000000	-1.00%	72539400		
17	A	20150122	38.51	39.86	38.12	39.65	4856500	ABR	0.38000000	6.00%	37916900		
18	A	20150123	39.6	39.6	38.76	38.81	1519200	ABR-A	-0.49000000	-2.00%	1243100		
19	A	20150126	38.79	39.17	38.47	39.15	1511200	ABR-B	-2.14000000	-9.00%	1022000		
20	A	20150127	38.7	39.25	38.58	38.75	1703500	ABR-C	-0.12000000	0.00%	634000		
21	A	20150128	39.01	39.05	37.96	38	2033500	ABRN	0.10000000	0.00%	2109900		
22	A	20150129	38	38.47	37.69	38.46	2329900	ABT	-0.11000000	0.00%	1469310700		
23	A	20150130	38.01	38.32	37.71	37.77	3054300	ABX	-3.37000000	-31.00%	4289215100		
24	A	20150202	37.9	38.76	37.71	38.69	2508400	AC	1.00000000	3.00%	437700		

2016 2015 2014 +

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	AAC	20150330	29.38	30.07	29.24	29.00	193000			1.00000000	-7.00%	1135100	
848	AAC	20150331	29.79	30.93	29.66	30.58	239100		DX-B	-2.30000000	-10.00%	1215400	
849	AAC	20150401	30.58	31.76	30.44	30.73	167600		DXB	-0.58000000	-2.00%	10481200	
850	AAC	20150402	30.69	31.13	30.52	30.99	145600		DY	34.87000000	99.00%	119317100	
851	AAC	20150403	30.99	30.99	30.99	30.99	0		DYN	-16.95000000	-56.00%	607269400	
852	AAC	20150406	30.7	30.88	30.28	30.59	121300		DYN-A	-50.36000000	-50.00%	3935000	
853	AAC	20150407	30.75	32.75	30.7	32.32	202100		DYN.W	-3.44000000	-88.00%	1713500	
854	AAC	20150408	32.49	32.5	30.54	31.54	187900		E	-5.11000000	-15.00%	95825700	
855	AAC	20150409	31.68	32.68	31.29	31.86	88500		EAB	1.68000000	7.00%	3824000	
856	AAC	20150410	32.08	32.5	30.77	32.1	182100		EAE	2.32000000	10.00%	3255900	
857	AAC	20150413	32.27	32.27	30.91	31.16	106700		EARN	-3.92000000	-24.00%	11581200	
858	AAC	20150414	31.27	31.4	30.78	31.11	149900		EAT	-10.74000000	-18.00%	288691600	
859	AAC	20150415	31	32.79	30.94	32.02	252500		EBF	5.78000000	43.00%	31689100	
860	AAC	20150416	31.62	32.29	31.18	31.93	93500		EBR	-0.78000000	-36.00%	176180600	
861	AAC	20150417	31.65	31.87	31.5	31.62	96500		EBR.B	-0.29000000	-10.00%	40409200	
862	AAC	20150420	31.74	33.85	31.35	33	134500		EBS	12.78000000	47.00%	72517400	
863	AAC	20150421	33.14	33.35	32.68	33.11	67300		EC	-10.11000000	-59.00%	236418300	
864	AAC	20150422	33.1	33.39	32.5	33.25	71100		ECA	-8.78000000	-63.00%	2484374900	
865	AAC	20150423	33.46	34.5	32.86	33.04	190800		ECC	-3.67000000	-18.00%	3507100	
866	AAC	20150424	33	33.25	32.16	32.36	99100		ECCA	0.44000000	2.00%	1980700	
867	AAC	20150427	32.66	32.99	31.31	31.41	103700		ECCZ	0.35000000	1.00%	348900	
868	AAC	20150428	31.15	31.79	30.61	31.75	175300		ECL	9.86000000	9.00%	325688300	
869	AAC	20150429	31.66	32.01	30.4	31.31	205700		ECOM	-7.73000000	-36.00%	79285300	
870	AAC	20150430	34.75	35.4	33.19	34.66	721900		ECR	-5.21000000	-74.00%	318047500	
871	AAC	20150501	34.81	34.81	32.5	34.43	182500		ECT	-1.62000000	-52.00%	18057300	

	C	D	E	F	G	H	I	J	K	L	M	N	O
14209	156.4	158.54	156.25	157.42	1012100	IPI		-10.93000000	-79.00%	223692500			
14210	158.55	160.65	157.54	160.27	1170100	IPL-D		0.81000000	3.00%	3791700			
14221	160.31	161.08	159.68	160.53	4624000	IQI		0.20000000	2.00%	25167400			
14232	160.29	161.65	159.98	161.21	438500	IR		-8.10000000	-13.00%	558870100			
14245	160.12	160.68	158.12	158.32	600800	IRE-B		-0.35000000	-1.00%	1148100			
14255	158.41	159.59	157.87	159.05	524000	IRE-P		-1.05000000	-4.00%	396700			
14267	159.12	160.67	157.65	158.99	688500	IRET		-1.22000000	-15.00%	135444900			
14278	159.67	160.78	159.13	160.25	470800	IRL		1.31000000	10.00%	2117100			
14289	159.64	161.94	159.49	160.5	649700	IRM		-11.65000000	-30.00%	405730400			
14292	161.02	163.51	160.33	163.26	879600	IRR		-2.83000000	-34.00%	21214700			
14303	163.71	165	163.04	163.89	560200	IRS		-3.07000000	-20.00%	20664800			
14314	164	164.72	162.7	163.42	491200	ISD		-2.08000000	-12.00%	35149800			
14325	163.46	164.59	162.97	164.2	653300	ISF		0.24000000	1.00%	12005800			
14335	164.98	165.16	163.48	164.28	858600	ISG		0.27000000	1.00%	7636300			
14349	163.08	163.08	158.81	158.93	516300	ISP		0.26000000	1.00%	4767700			
14350	160.41	160.73	158.03	159.29	789600	IT		6.49000000	8.00%	102020200			
14361	160.59	162.85	160.31	162.65	675400	ITG		-3.80000000	-18.00%	101408400			
14372	163.58	164.3	161.18	162.11	414400	ITT		-4.14000000	-10.00%	172281000			
14388	162.11	162.11	162.11	162.11	0	ITUB		-6.50000000	-50.00%	4122341800			
14395	161.37	164.42	161.22	163.42	618200	ITW		-2.02000000	-2.00%	438518900			
14407	164.74	165.2	161.68	163.53	1345300	IVC		0.63000000	4.00%	37521700			
14418	162.63	163.82	159.12	159.99	14312300	IVH		-3.48000000	-22.00%	18281100			
14429	161.29	162.66	160.69	162.07	1909200	IVR		-3.07000000	-20.00%	319204700			
14430	163.95	164.98	162.96	164.11	505900	IVR-A		-2.37000000	-10.00%	3543600			
14440	160.72	161.97	160.23	160.99	1609100	IVV-A		-1.00000000	-5.00%	4844800			

Multiple_year_stock_data_moderate challenge

	C	D	E	F	G	H	I	J	K	L	M	N
2983	0604	111.91	112.6	111.1	111.49	1562400	YELP	-25.93000000	-47.00%	880142100		
2984	0605	111.21	111.65	110.25	111.5	1382000	YGE	-18.97000000	-81.00%	437094200		
2985	0608	111.32	111.81	110.21	110.22	1335500	YPF	-10.75000000	-41.00%	328304200		
2986	0609	110.74	110.74	108.61	109.12	1917900	YRD	-0.55000000	-6.00%	7627500		
2987	0610	109.04	109.18	108.28	108.75	1980500	YUM	0.20000000	0.00%	1030359900		
2988	0611	108.92	111.14	108.8	110.41	1906300	YUME	-1.53000000	-30.00%	37170300		
2989	0612	111	111	109.81	110.15	1162900	YZC	-3.85000000	-46.00%	21847900		
2990	0615	109.77	112.33	109	110.63	2277500	ZAYO	-3.98000000	-13.00%	256466600		
2991	0616	110.68	112.09	110.17	111.18	1671100	ZB-A	0.53000000	2.00%	847300		
2992	0617	111.38	112.13	110.87	111.51	1597600	ZB-F	-0.39000000	-1.00%	2725200		
2993	0618	111.5	112.63	110.72	111.92	1329900	ZB-G	0.24000000	1.00%	3276500		
2994	0619	111.72	112.31	111.34	111.47	4169700	ZB-H	0.56000000	2.00%	3701100		
2995	0622	112.58	113.19	111.65	111.79	902800	ZBH	-4.41000000	-4.00%	166602100		
2996	0623	112.18	112.47	111.58	111.81	1035500	ZBK	1.37000000	5.00%	1429100		
2997	0624	111.5	111.6	109.57	109.6	1558200	ZEN	2.07000000	8.00%	162237400		
2998	0625	109.49	109.7	107.31	107.61	3239300	ZF	-2.32000000	-15.00%	12951300		
2999	0626	108.07	108.56	107.32	107.84	1622800	ZFC	-2.17000000	-13.00%	6065500		
3000	0629	106.81	107.62	105.78	106.1	1730500	ZNH	14.25000000	60.00%	22641000		
3001	0630	106.3	107.31	106.15	106.34	1958500	ZOES	-1.93000000	-6.00%	119611900		
3002	0701	107.17	108.07	106.87	107.71	1897500	ZPIN	0.14000000	1.00%	29891800		
3003	0702	107.71	108.32	107.03	107.1	1269000	ZTR	-1.83000000	-13.00%	19215900		
3004	0703	107.1	107.1	107.1	107.1	0	ZTS	4.89000000	11.00%	870003400		
3005	0706	106.47	108.57	106	108.03	1634500	ZX	-0.64000000	-45.00%	3333800		
3006	0707	108.74	108.79	107.01	108.63	1298400						

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>	Ticker	Yearly Change	Percent Change	Total Stock Amount			
2	A	20140101	57.19	57.19	57.19	57.19	0	A	-16.2500000	-28.00%	572978100			
3	A	20140102	57.1	57.1	56.15	56.21	1916100	AA	15.4800000	49.00%	5161412000			
4	A	20140103	56.39	57.35	56.26	56.92	1866600	AA-B	1.3400000	3.00%	21618200			
5	A	20140106	57.4	57.7	56.56	56.64	1777400	AAC	10.9200000	55.00%	9789700			
6	A	20140107	56.95	57.63	56.93	57.45	1463200	AAN	1.1700000	4.00%	237929300			
7	A	20140108	57.33	58.54	57.17	58.39	2659400	AAP	48.6000000	44.00%	200376400			
8	A	20140109	58.4	58.68	57.87	58.41	1757600	AAT	8.3800000	27.00%	40207800			
9	A	20140110	58.51	59.01	58.14	58.93	1623300	AAV	0.4500000	10.00%	86658700			
10	A	20140113	58.77	59.1	58.6	58.93	2946700	AB	4.4900000	21.00%	83051600			
11	A	20140114	59.16	59.95	59.02	59.88	2562200	ABB	-5.4100000	-20.00%	466820000			
12	A	20140115	59.82	60.37	59.59	60.34	2335100	ABBV	12.6300000	24.00%	2303237600			
13	A	20140116	60.24	60.5	60.04	60.5	1835900	ABC	19.8500000	28.00%	428969000			
14	A	20140117	60.83	60.83	60.33	60.71	1699500	ABEV	-1.1300000	-15.00%	3208014300			
15	A	20140120	60.71	60.71	60.71	60.71	0	ABG	22.1800000	41.00%	81065600			
16	A	20140121	60.69	60.88	59.86	60.85	3008400	ABM	0.0600000	0.00%	52403000			
17	A	20140122	60.82	61.22	60.71	60.93	2769300	ABR	0.1100000	2.00%	28348400			
18	A	20140123	60.48	60.51	59.4	59.47	3063500	ABR-A	0.7700000	3.00%	1798500			
19	A	20140124	59.46	59.46	57.71	57.87	2656300	ABR-B	2.0900000	9.00%	1722000			
20	A	20140127	57.9	58.37	56.98	58.3	4669000	ABR-C	0.9400000	4.00%	1758200			
21	A	20140128	58.5	58.88	57.91	58.1	2536200	ABRN	0.4900000	2.00%	3451100			
22	A	20140129	57.67	58.22	57.41	57.65	2163000	ABT	6.6900000	17.00%	1516024700			
23	A	20140130	58.42	60.11	58.42	59.51	3743100	ABX	-6.8800000	-39.00%	3085372400			
24	A	20140131	58.61	59.15	58.05	58.15	3529000	ACC	9.1500000	28.00%	180543400			
25	A	20140203	58.15	58.48	56.08	56.15	2929200	ACCO	2.2900000	34.00%	223248000			
26	A	20140204	56.32	57.88	56.09	57.81	2911800	ACH	2.8200000	32.00%	34117500			
27	A	20140205	57.59	57.7	56.96	57.42	2282800	ACM	0.9400000	-2.00%	202303900			

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A	B	C	D	E	F	G	H	I	J	K	L	M	N
798 AAN	20140714	33.48	33.7	33.29	33.53	442100	DX-B	3.77000000	18.00%	1692400			
799 AAN	20140715	31.4	32.4	30.06	30.34	2466100	DXB	1.34000000	5.00%	14264500			
800 AAN	20140716	30	30.04	29.22	29.71	1983100	DY	7.30000000	26.00%	64229600			
801 AAN	20140717	29.71	29.75	29.31	29.56	871400	DYN	8.83000000	41.00%	342642700			
802 AAN	20140718	29.6	29.7	29.4	29.58	487800	DYN-A	11.03000000	12.00%	1238000			
803 AAN	20140721	29.25	29.42	28.35	28.46	944300	DYN.W	2.55000000	188.00%	10857500			
804 AAN	20140722	28.5	29	28.5	28.81	610900	E	-13.58000000	-28.00%	67617200			
805 AAN	20140723	28.84	29.2	28.74	29.08	496100	EAB	3.08000000	15.00%	4174600			
806 AAN	20140724	29.01	29.57	28.91	29.54	787300	EAE	3.24000000	17.00%	3758700			
807 AAN	20140725	28.67	29.53	28.49	28.66	679000	EARN	0.89000000	6.00%	17178200			
808 AAN	20140728	28.51	28.7	28.24	28.29	855000	EAT	12.35000000	27.00%	240165100			
809 AAN	20140729	28.29	28.54	27.85	27.94	938200	EBF	-4.23000000	-24.00%	23946000			
810 AAN	20140730	28.09	28.14	27.6	27.62	706400	EBR	-0.45000000	-17.00%	273266800			
811 AAN	20140731	27.47	27.52	26.28	26.38	1135400	EBR.B	-1.53000000	-35.00%	50335000			
812 AAN	20140801	26.4	26.67	26.22	26.4	1528700	EBS	4.24000000	18.00%	74005800			
813 AAN	20140804	26.57	26.92	26.42	26.66	967500	EC	-21.33000000	-55.00%	153621500			
814 AAN	20140805	26.5	26.69	25.79	25.82	805300	ECA	-4.18000000	-23.00%	1357346700			
815 AAN	20140806	25.71	26.15	25.56	25.77	1015400	ECC	0.90000000	5.00%	4369200			
816 AAN	20140807	25.9	25.94	24.96	25.05	1116700	ECL	0.25000000	0.00%	267533100			
817 AAN	20140808	25.2	25.4	24.75	25.29	1305800	ECOM	-20.13000000	-48.00%	138438500			
818 AAN	20140811	25.33	25.55	25.11	25.5	1085200	ECR	-19.97000000	-74.00%	154117900			
819 AAN	20140812	25.4	25.84	25.3	25.8	1026800	ECT	-4.54000000	-59.00%	34176400			
820 AAN	20140813	25.8	25.89	25.5	25.81	616900	ED	10.73000000	19.00%	569209600			
821 AAN	20140814	25.87	25.94	25.49	25.92	501200	EDD	-2.46000000	-19.00%	91780900			
822 AAN	20140815	25.91	25.95	25	25	839200	EDE	7.05000000	31.00%	48219700			
823 AAN	20140818	25.12	25.84	25.12	25.79	739000	EDF	-2.80000000	-15.00%	23239900			
824 AAN	20140819	25.02	26.12	25.81	25.96	1096700	EDI	-3.72000000	-20.00%	11131100			

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L19

C	D	E	F	G	H	I	J	K	L	M	N	O
1455 17	4.19	4.35	4.19	4.33	84900	KMM	-0.87000000	-9.00%	14432400			
1456 20	4.33	4.33	4.33	4.33	0	KMPA	0.07000000	0.00%	5786700			
1457 21	4.29	4.37	4.27	4.31	67000	KMPR	-4.77000000	-12.00%	47719000			
1458 22	4.31	4.41	4.27	4.29	110500	KMT	-16.28000000	-31.00%	163135200			
1459 23	4.27	4.3	4.24	4.28	147100	KMX	19.56000000	42.00%	465612900			
1460 24	4.25	4.32	4.19	4.31	76200	KN	-7.82000000	-25.00%	307737900			
1461 27	4.28	4.29	4.06	4.15	129400	KND	-1.56000000	-8.00%	199748300			
1462 28	4.17	4.2	4.08	4.19	112900	KNL	2.86000000	16.00%	47548000			
1463 29	4.18	4.18	4.07	4.11	116500	KNOP	-5.86000000	-21.00%	16512600			
1464 30	4.13	4.16	4.07	4.1	137800	KNX	15.32000000	84.00%	166042000			
1465 31	4.07	4.09	4.02	4.07	58400	KO	0.91000000	2.00%	3859707300			
1466 03	4.06	4.07	3.91	3.95	114600	KOD.W	-12.12000000	-61.00%	351500			
1467 04	3.96	4	3.95	3.96	82900	KODK	-13.00000000	-37.00%	31453900			
1468 05	3.51	3.82	3.47	3.72	508800	KOF	-35.25000000	-29.00%	18659000			
1469 06	3.71	3.88	3.71	3.85	138500	KOP	-19.77000000	-43.00%	29886200			
1470 07	3.84	3.98	3.84	3.97	222600	KORS	-6.09000000	-8.00%	862352800			
1471 10	3.99	4.06	3.85	3.86	103400	KOS	-2.79000000	-25.00%	325861500			
1472 11	3.89	4.04	3.86	3.93	156300	KR	12.34000000	62.00%	876664100			
1473 12	3.93	4	3.85	3.88	128400	KRA	-2.26000000	-10.00%	56084200			
1474 13	3.86	3.97	3.84	3.93	144700	KRC	18.89000000	38.00%	130499000			
1475 14	3.92	3.95	3.85	3.88	85600	KRC-G	4.21000000	19.00%	2925400			
1476 17	3.88	3.88	3.88	3.88	0	KRC-H	4.43000000	22.00%	2926000			
1477 18	3.9	3.96	3.85	3.92	105900	KRG	2.46000000	9.00%	488686100			
1478 19	3.93	4.02	3.93	3.96	65300	KRO	-6.03000000	-32.00%	60244100			
1479 20	3.98	4.06	3.97	4.01	87500	KS	1.38000000	5.00%	243690900			
1480 21	4	4.06	4	4.02	98800	KSM	1.42000000	12.00%	6386500			
1481 24	4.06	4.18	4.02	4.14	258500	KSS	4.29000000	8.00%	694919500			

Multiple_year_stock_data moderate challenge

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	B	C	D	E	F	G	H	I	J	K	L	M	N
2811	20140331	7.45	7.5	7.39	7.41	7004800		XRS	6.1000000	28.00%	144130000		
2812	20140401	7.42	7.5	7.41	7.5	6733500		XRX	1.6900000	14.00%	2377968500		
2813	20140402	7.51	7.63	7.5	7.58	8190000		XYL	3.4700000	10.00%	255413000		
2814	20140403	7.56	7.57	7.41	7.5	8998000		Y	63.5400000	16.00%	14656600		
2815	20140404	7.66	7.7	7.46	7.49	17869500		YDKN	0.3600000	2.00%	9045100		
2816	20140407	7.54	7.59	7.47	7.54	14765300		YELP	-14.2200000	-21.00%	1064674100		
2817	20140408	7.6	7.63	7.5	7.56	16607500		YGE	-27.0000000	-53.00%	1160066200		
2818	20140409	7.55	7.65	7.45	7.59	9466100		YPF	-6.4900000	-20.00%	479353100		
2819	20140410	7.6	7.72	7.55	7.64	11181700		YUM	-2.7600000	-4.00%	798971400		
2820	20140411	7.58	7.82	7.54	7.8	13422800		YUME	-2.4100000	-32.00%	54411500		
2821	20140414	7.82	7.83	7.72	7.77	8128200		YZC	-0.8000000	-9.00%	34270000		
2822	20140415	7.74	7.76	7.53	7.7	10131800		ZAYO	9.0600000	42.00%	34293200		
2823	20140416	7.75	7.76	7.65	7.73	9579200		ZB-A	1.0300000	5.00%	1516900		
2824	20140417	7.72	7.78	7.67	7.77	9064700		ZB-F	0.3500000	1.00%	1975600		
2825	20140418	7.77	7.77	7.77	7.77	0		ZB-G	2.6200000	11.00%	6021300		
2826	20140421	7.8	8.67	7.7	7.8	6138200		ZB-H	4.7000000	24.00%	3510000		
2827	20140422	7.75	7.91	7.69	7.9	9724500		ZBK	0.5700000	2.00%	1512800		
2828	20140423	7.86	7.88	7.77	7.86	9331100		ZEN	12.9700000	114.00%	69795300		
2829	20140424	7.89	7.89	7.69	7.81	9920900		ZF	0.6000000	4.00%	13517600		
2830	20140425	7.77	7.78	7.6	7.67	9585200		ZFC	1.2200000	8.00%	11673900		
2831	20140428	7.69	7.74	7.63	7.7	8870600		ZNH	4.1600000	21.00%	11406800		
2832	20140429	7.78	7.8	7.62	7.64	10633500		ZOES	4.2600000	17.00%	81302300		
2833	20140430	7.34	7.36	7.17	7.25	39653300		ZPIN	0.6700000	5.00%	31461100		
2834	20140501	7.31	7.31	7.09	7.15	10807000		ZTR	0.0700000	1.00%	16506100		
2835	20140502	7.2	7.33	7.13	7.24	27250500		ZTS	10.3400000	32.00%	1014176200		
2836	20140505	7.2	7.35	7.19	7.32	11521300		ZX	-1.1700000	-45.00%	13149300		