

## VBA Challenge – The VBA of Wall Street – Report

Notably, I was simply unable to run my code on the Multiple\_year\_stock\_data.xlsx without my computer crashing. I ran the code on the alphabetical\_testing.xlsx and it worked successfully.

Screenshots from each sheet:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	A	20160101	41.81	41.81	41.81	41.81	0		A	3.75	8.97%	528576200		Greatest % Increase	ALR-B	51.70
2	A	20160104	41.06	41.19	40.34	40.69	3287300		AA	-1.53	-5.17%	5208239000		Greatest % Decrease	AGN-A	-266.53
3	A	20160105	40.73	40.95	40.34	40.55	2587200		AAC	-11.82	-62.01%	57179800		Greatest Total Volume	AA	5208239000
4	A	20160106	40.24	40.99	40.05	40.73	2103600		AAN	9.60	42.88%	184809000				
5	A	20160107	40.14	40.15	38.81	39	3504300		AAP	18.61	12.36%	262665300				
6	A	20160108	39.22	39.71	38.47	38.59	3736700		AAT	4.73	12.33%	49026400				
7	A	20160111	38.71	38.9	37.41	37.94	2818600		AAV	1.67	32.87%	27358200				
8	A	20160112	38.43	38.58	37.65	38.19	1989300		AB	-0.40	-1.68%	64736300				
9	A	20160113	38.35	38.47	36.72	36.86	4206600		ABB	3.34	18.84%	503779400				
10	A	20160114	36.94	37.88	36.55	37.61	2893300		ABBV	3.38	5.71%	2034231800				
11	A	20160115	36.67	37.56	36.55	37.11	2994300		ABC	-25.52	-24.61%	647239900				
12	A	20160118	37.11	37.11	37.11	37.11	0		ABEV	0.45	10.09%	4199335100				
13	A	20160119	37.64	37.92	36.79	37.2	2506500		ABG	-5.74	-8.51%	89828200				
14	A	20160120	36.68	37.61	36.13	37.26	2469000		ABM	12.37	43.45%	79787400				
15	A	20160121	37.35	37.83	36.81	37.23	2298300		ABR	0.31	4.34%	27556100				
16	A	20160122	37.91	38.18	37.58	37.98	1834400		ABR-A	0.57	2.33%	792500				
17	A	20160125	37.4	38.03	37.4	37.61	1831200		ABR-B	2.02	8.95%	795300				
18	A	20160126	37.89	37.96	37.36	37.51	1755000		ABR-C	0.18	0.72%	521300				
19	A	20160127	37.39	37.92	36.81	37.05	1479400		ABRN	0.70	2.85%	1759800				
20	A	20160128	37.27	37.27	36.01	36.11	3479400		ABT	-6.50	-14.47%	2298099600				
21	A	20160129	36.44	37.69	36.31	37.65	2959800		ABX	8.60	116.53%	4996990800				
22	A	20160201	37.37	37.95	37	37.69	2666500		AC	2.35	7.70%	6530000				
23	A	20160202	37.18	37.55	36.95	37.07	1742300		ACC	8.43	20.39%	258457600				
24	A	20160203	37.27	37.36	36.29	37.19	2128400		ACCO	5.92	83.03%	163653100				
25	A	20160204	37.15	37.79	36.97	37.42	2833400		ACH	1.97	23.91%	11563400				
26	A	20160205	37.26	37.31	35.83	36.04	4424600		ACM	6.33	21.08%	296759000				
27	A	20160206	36.63	36.63	35.78	36.28	2888600		ACN	12.88	11.08%	650155200				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	B	20160101	35.39	35.39	35.39	35.39	0		B	11.03	33.99%	56633600		Greatest % Increase	BRK.A	46321.00
2	B	20160104	34.67	35.12	34.06	34.31	277300		BA	11.09	7.67%	1111660700		Greatest % Decrease	BMI	-21.64
3	B	20160105	34.33	34.39	33.87	34.12	204300		BABA	6.54	8.05%	3742094000		Greatest Total Volume	BAC	2.7429E+10
4	B	20160106	33.59	33.92	33.5	33.86	229900		BAC	5.27	31.31%	27428529600				
5	B	20160107	33.16	33.34	32.57	32.64	234400		BAC-A	-0.23	-0.92%	43727700				
6	B	20160108	32.85	32.85	32.19	32.26	229400		BAC-C	-0.06	-0.24%	43552600				
7	B	20160111	32.48	32.65	31.71	32.56	152900		BAC-D	-0.74	-2.86%	12479800				
8	B	20160112	33.53	33.93	32.34	32.98	303200		BAC-E	-0.56	-2.50%	15098400				
9	B	20160113	33.15	33.32	31.53	31.65	228100		BAC-I	-1.44	-5.38%	5943700				
10	B	20160114	31.86	32.47	31.22	32.1	196400		BAC-L	73.53	6.73%	2481300				
11	B	20160115	31.06	31.6	30.85	31.49	312900		BAC-W	-1.03	-3.85%	23599700				
12	B	20160118	31.49	31.49	31.49	31.49	0		BAC-Y	-1.20	-4.49%	25334000				
13	B	20160119	31.87	31.87	30.84	31.27	203400		BAC.A	4.13	70.96%	165623300				
14	B	20160120	30.85	31.79	30.43	31.38	210200		BAC.B	0.69	255.56%	54083700				
15	B	20160121	31.42	31.53	30.79	30.87	222800		BAF	-0.52	-3.52%	6221300				
16	B	20160122	31.33	31.94	31.03	31.54	138200		BAH	5.22	16.92%	263732400				
17	B	20160125	31.36	31.48	30.64	30.74	139800		BAK	7.67	56.65%	137314000				
18	B	20160126	30.98	31.69	30.98	31.6	199000		BAM	1.48	4.69%	285278900				
19	B	20160127	31.45	31.94	31.17	31.35	173200		BAN-C	-0.76	-2.86%	930500				
20	B	20160128	31.7	31.99	31.2	31.41	85300		BAN-D	-0.58	-2.23%	3546200				
21	B	20160129	31.49	32.58	31.4	32.51	309200		BAN-E	0.12	0.48%	7550200				
22	B	20160201	32.23	32.41	31.8	32.2	153100		BANC	2.73	18.67%	247132700				
23	B	20160202	31.82	31.85	31.11	31.17	183900		BAP	60.54	62.21%	90719600				
24	B	20160203	31.52	31.52	30.65	31.22	223800		BAS	32.67	1219.03%	601319000				
25	B	20160204	31.18	32.08	31.05	31.43	369300		BAX	6.19	16.23%	1488815900				
26	B	20160205	31.27	31.47	30.95	30.98	455000		BBD	3.90	81.08%	3423802200				
27	B	20160206	30.67	31.31	30.44	30.88	246300		BRDO	5.63	68.54%	821600				

alphabetical\_testing - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	C	20160101	51.75	51.75	51.75	51.75	0		C	7.68	14.84%	5606480500			CABO	188.07
2	C	20160104	50.75	51.19	50.19	51.13	23440100		C-C	-1.34	-4.39%	14039900			CMG	-102.53
3	C	20160105	51.54	51.61	50.41	50.86	17444900		C-J	-0.03	-0.11%	27549800			CHK	1.1706E+10
4	C	20160106	50.1	50.58	49.76	50.12	22501800		C-K	-0.51	-1.83%	37907700				
5	C	20160107	49.07	49.38	47.5	47.56	37902900		C-L	-1.29	-4.70%	11071400				
6	C	20160108	48.73	48.74	46.03	46.13	30642900		C-N	-0.17	-0.65%	48171600				
7	C	20160111	46.56	46.99	45.93	46.85	26284500		C-P	-0.78	-2.76%	2123700				
8	C	20160112	47.49	47.5	46.27	46.88	26309900		C-S	0.65	2.64%	50086600				
9	C	20160113	47.32	47.35	44.97	45.19	27925800		C-A	-0.03	-16.67%	158592500				
10	C	20160114	45.42	45.81	44.56	45.38	30129500		C-AA	-3.91	-10.31%	373575200				
11	C	20160115	42.51	43.69	41.85	42.47	52452500		CAB	11.82	25.29%	237011500				
12	C	20160118	42.47	42.47	42.47	42.47	0		CABO	188.07	43.37%	9902800				
13	C	20160119	42.85	43.12	41.66	41.94	39032700		CACI	31.52	33.97%	48164400				
14	C	20160120	40.52	41.03	39.44	40.49	49905400		CAE	2.88	25.97%	18387100				
15	C	20160121	40.51	41.39	40.03	40.15	34976700		CAF	-2.92	-14.67%	40320700				
16	C	20160122	41.05	41.35	40.82	41.06	30187100		CAG	-2.61	-6.19%	771793500				
17	C	20160125	40.81	40.96	39.45	39.55	31924000		CAH	-17.30	-19.38%	628679300				
18	C	20160126	39.6	40.79	39.5	40.5	23508400		CAI	-1.41	-13.99%	25173400				
19	C	20160127	40.37	41.69	40.23	40.56	28274700		CAJ	-1.99	-6.60%	73608500				
20	C	20160128	41.2	41.39	40.07	40.39	23212800		CAL	6.00	22.37%	83017600				
21	C	20160129	40.8	42.59	40.78	42.58	36107600		CALX	-0.17	-2.16%	48517800				
22	C	20160201	42.36	42.83	42	42.48	22860300		CAPL	-0.73	-2.82%	20861700				
23	C	20160202	41.86	41.86	40.28	40.42	31460900		CAT	24.78	36.46%	138391100				
24	C	20160203	40.65	40.71	38.04	40.36	43680200		CATO	-6.74	-18.31%	36666000				
25	C	20160204	40.11	41.57	40.05	40.79	26697300		CB	-0.52	-0.39%	447803800				
26	C	20160205	41.02	41.44	39.55	39.86	23599600		CBA	0.99	12.09%	55111900				
27	C	20160206	38.14	38.18	37.18	37.81	25323100		CBB	1.44	3.74%	178058000				

alphabetical\_testing - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	D	20160101	67.64	67.64	67.64	67.64	0		D	8.95	13.23%	721121300			DPZ	47.99
2	D	20160104	66.97	67.51	66.33	67.47	3896700		DAC	-3.34	-55.76%	17895900			DATA	-52.07
3	D	20160105	67.29	68.12	66.25	68.05	2476000		DAL	-1.50	-2.96%	2611801700			DNR	3189586900
4	D	20160106	67.57	68.87	67.33	68.47	2670700		DAN	5.18	37.54%	481995200				
5	D	20160107	67.67	68.71	67.6	68.51	4011800		DAR	2.39	22.72%	409384800				
6	D	20160108	68.48	69.9	68.38	69.52	5391400		DATA	-52.07	-55.26%	411703100				
7	D	20160111	69.59	69.93	69.31	69.41	3989700		DB	-6.05	-25.05%	1560765100				
8	D	20160112	69.64	69.88	68.51	68.9	4318300		DBD	-4.94	-16.42%	214045800				
9	D	20160113	69.04	69.49	68.86	69.02	3646400		DBL	-2.21	-8.73%	22900200				
10	D	20160114	68.97	69.97	68.85	69.67	3265900		DCA	0.66	17.32%	30151100				
11	D	20160115	69	69.44	68.18	68.88	3964100		DCI	13.42	46.82%	209073500				
12	D	20160118	68.88	68.88	68.88	68.88	0		DCM	2.25	10.98%	48031400				
13	D	20160119	69.23	70.06	68.69	69.9	3037000		DCO	9.34	57.58%	13701600				
14	D	20160120	69.45	69.75	67.94	68.73	3773700		DCT	10.51	28.12%	218363600				
15	D	20160121	69.05	69.05	67.97	68.49	2268600		DCUC	1.98	4.12%	21213100				
16	D	20160122	69.14	69.83	68.52	69.76	2117900		DCUD	-0.80	-1.56%	18748400				
17	D	20160125	69.79	70.14	69.27	69.56	2287300		DD	6.80	10.21%	857358000				
18	D	20160126	69.58	70.56	69.44	69.72	2075800		DD-A	9.50	12.18%	353800				
19	D	20160127	69.61	70.12	69.17	69.71	2320100		DD-B	3.20	3.30%	327700				
20	D	20160128	69.7	71.51	69.43	70.94	3579700		DDC	-0.55	-5.38%	87305900				
21	D	20160129	71.48	72.2	71.03	72.17	3498500		DDD	4.60	52.93%	850322300				
22	D	20160201	70.27	71.42	69.94	70.18	10798500		DDE	0.06	6.19%	6445400				
23	D	20160202	69.24	70.11	68.62	69.89	6008700		DDF	1.16	13.15%	5107400				
24	D	20160203	70.05	70.42	69.28	69.93	5527600		DDR	-1.57	-9.32%	748520000				
25	D	20160204	70.07	71.15	69.62	70.43	4016000		DDR-J	-0.48	-1.90%	4997700				
26	D	20160205	70.34	71.43	69.69	71.06	3758800		DDR-K	-1.27	-5.06%	4569400				
27	D	20160206	70.12	70.88	69.08	69.48	5694700		DDK	4.60	4.60%	146040700				

alphabetical\_testing - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	E	20160101	29.8	29.8	29.8	29.8	0	E	EAB	3.44	8.19%	117078300			EXP	38.10
2	E	20160104	29.39	29.56	28.89	29.42	431800	EAB	EAB	-1.21	-12.92%	6576200			EQR	-17.23
3	E	20160105	29.22	29.28	28.85	29.19	250200	EAE	EAE	-1.65	-14.80%	2815000			ECA	4105117800
4	E	20160106	28.28	28.47	28.18	28.47	199900	EAI	EAI	-3.68	-14.81%	15266500				
5	E	20160107	27.71	28.59	27.7	28.2	395600	EARN	EARN	0.66	5.34%	9501100				
6	E	20160108	28.07	28.13	27.55	27.55	331500	EAT	EAT	1.58	3.30%	332615500				
7	E	20160111	28.14	28.16	27.41	27.65	329400	EBF	EBF	-1.90	-9.87%	40526700				
8	E	20160112	28	28.09	27.39	27.73	662500	EBR	EBR	5.50	404.41%	64003200				
9	E	20160113	27.98	28.25	27.45	27.47	421100	EBR.B	EBR.B	5.30	205.43%	16496200				
10	E	20160114	28.09	28.85	27.97	28.81	260800	EBS	EBS	-7.17	-17.92%	139423100				
11	E	20160115	27.72	27.93	27.31	27.52	242100	EC	EC	2.04	29.10%	293810700				
12	E	20160118	27.52	27.52	27.52	27.52	0	ECA	ECA	6.65	130.65%	4105117800				
13	E	20160119	27.6	27.69	27.14	27.37	406700	ECC	ECC	0.28	1.70%	8697500				
14	E	20160120	26.87	27.06	26.22	26.82	478100	ECCA	ECCA	0.35	1.38%	975900				
15	E	20160121	26.84	27.55	26.57	27.46	407700	ECCB	ECCB	0.15	0.59%	565300				
16	E	20160122	28.44	28.48	28.02	28.44	302700	ECCZ	ECCZ	0.85	3.42%	2115900				
17	E	20160125	28	28.16	27.44	27.64	419100	ECL	ECL	2.84	2.48%	284477200				
18	E	20160126	28.03	28.62	27.79	28.48	195300	ECOM	ECOM	0.50	3.61%	30689600				
19	E	20160127	28.23	28.75	28.15	28.36	323000	ECR	ECR	0.85	46.70%	327713100				
20	E	20160128	29.39	29.4	28.47	29	371500	ECT	ECT	0.64	42.38%	15936300				
21	E	20160129	28.9	29.15	28.49	28.95	387000	ED	ED	9.41	14.64%	508875300				
22	E	20160201	28.58	28.78	28.36	28.75	331400	EDD	EDD	0.37	5.44%	75135600				
23	E	20160202	27.53	27.59	27.06	27.17	269400	EDE	EDE	6.02	21.45%	73595300				
24	E	20160203	27.55	28.18	26.93	28.15	625500	EDF	EDF	2.59	21.49%	23705000				
25	E	20160204	28.43	28.99	28.4	28.65	289400	EDI	EDI	2.38	20.93%	17030100				
26	E	20160205	28.13	28.24	27.82	27.87	252400	EDN	EDN	10.32	58.87%	13321700				
27	E	20160206	27.31	27.35	26.87	27.19	555000	EDP	EDP	4.43	11.67%	180186400				

alphabetical\_testing - Microsoft Excel

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	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			Ticker	Value
1	F	20160101	14.09	14.09	14.09	14.09	0	F	F	-1.96	-13.91%	9032398200			FDX	37.21
2	F	20160104	13.87	14	13.75	13.97	38618500	FAC	FAC	-1.34	-56.30%	7133900			FIT	-22.27
3	F	20160105	13.97	14	13.51	13.72	50267500	FAF	FAF	0.73	2.03%	191366100			FCX	1.0511E+10
4	F	20160106	13.56	13.56	13.05	13.11	61285400	FAM	FAM	1.03	10.17%	9892100				
5	F	20160107	12.9	13.04	12.6	12.7	57846600	FBC	FBC	3.83	16.57%	45608200				
6	F	20160108	13.05	13.1	12.5	12.54	46199400	FBH\$	FBH\$	-2.04	-3.68%	378644600				
7	F	20160111	12.8	12.82	12.55	12.77	41269100	FBK	FBK	4.80	22.70%	10334400				
8	F	20160112	13.03	13.04	12.58	12.85	50983600	FBP	FBP	3.36	103.38%	236500500				
9	F	20160113	12.73	12.84	12.06	12.2	102174600	FBR	FBR	-3.08	-24.27%	414224100				
10	F	20160114	12.19	12.31	11.82	12.19	62938600	FC	FC	3.41	20.37%	11467300				
11	F	20160115	11.81	12	11.58	11.97	69029900	FCAU	FCAU	-4.87	-34.81%	1831803100				
12	F	20160118	11.97	11.97	11.97	11.97	0	FCB	FCB	11.91	33.28%	59370400				
13	F	20160119	12.15	12.16	11.82	11.95	41142600	FCE.A	FCE.A	-1.09	-4.97%	400064100				
14	F	20160120	11.79	12.07	11.47	11.9	59879000	FCE.B	FCE.B	5.06	23.14%	392800				
15	F	20160121	12.01	12.28	11.86	12.01	48841700	FCF	FCF	5.11	56.34%	71437800				
16	F	20160122	12.26	12.36	12.03	12.14	44537800	FCFS	FCFS	-5.49	-10.46%	21569900				
17	F	20160125	12.3	12.31	11.93	11.98	96738500	FCH	FCH	0.71	9.73%	303898200				
18	F	20160126	12.14	12.29	12.04	12.26	45969700	FCH-A	FCH-A	-0.24	-0.95%	4592200				
19	F	20160127	12.05	12.1	11.73	11.85	42064200	FCN	FCN	10.42	30.06%	60545400				
20	F	20160128	12.03	12.06	11.2	11.71	75699700	FCPT	FCPT	-3.64	-15.07%	151872600				
21	F	20160129	11.83	11.94	11.65	11.94	52137300	FCT	FCT	1.48	11.98%	17457900				
22	F	20160201	11.92	12.14	11.73	12.07	37301100	FCX	FCX	6.42	94.83%	10511104500				
23	F	20160202	11.95	12.08	11.45	11.51	55649100	FDC	FDC	-1.83	-11.42%	1200612100				
24	F	20160203	11.67	11.68	11.02	11.46	69454500	FDEU	FDEU	-1.64	-9.56%	20368300				
25	F	20160204	11.37	11.69	11.26	11.53	40223100	FDP	FDP	21.75	55.94%	58711300				
26	F	20160205	11.52	11.7	11.42	11.45	33322100	FDS	FDS	0.86	0.53%	83300100				
27	F	20160206	11.38	11.68	11.35	11.58	45274500	FDV	FDV	22.94	24.67%	420221000				

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	<ticker>	<date>	<open>	<high>	<low>	<close>	<vol>		Ticker	Yearly Change	Percent Change	Total Stock Volume			
2	P	20140101	26.6	26.6	26.6	26.6	0	P	-8.77	-32.97%	2087326500			Greatest % Increase	PBYI
3	P	20140102	26.46	27.23	26.26	26.76	6227100	PAA	-0.45	-0.87%	265764400			Greatest % Decrease	PACD
4	P	20140103	26.9	27.69	26.77	27.59	6102100	PAC	9.98	18.75%	15869800			Greatest Total Volume	PBR
5	P	20140106	29.1	32.45	29	31.49	29006500	PACD	-68.20	-59.51%	143918500				
6	P	20140107	31.22	33.7	31.2	32.44	20493000	PAG	1.91	4.05%	88908800				
7	P	20140108	32.66	34.46	32.6	32.7	18484900	PAGP	-3.27	-4.07%	259521900				
8	P	20140109	32.88	33.47	31.94	32.78	10140000	PAH	8.23	54.80%	173849700				
9	P	20140110	32.84	33.53	32.15	33.47	8242700	PAI	0.27	2.05%	5172200				
10	P	20140113	33.36	34.07	32.06	32.53	9779100	PAM	4.78	91.22%	56387900				
11	P	20140114	33.25	34.41	32.95	34.13	8840400	PANW	65.10	113.28%	452349800				
12	P	20140115	34.39	35.48	34.34	35.05	9958100	PAR	0.70	12.84%	5169600				
13	P	20140116	34.99	36.3	34.64	35.74	7323000	PAY	10.38	38.70%	405653900				
14	P	20140117	35.74	36.02	34.61	35.12	6073700	PAYC	8.43	47.09%	27249800				
15	P	20140120	35.12	35.12	35.12	35.12	0	PB	-8.03	-12.67%	93218300				
16	P	20140121	35.67	35.99	34.54	35.01	5920400	PBA	1.18	3.35%	57831200				
17	P	20140122	35.34	35.7	34.47	34.62	4626900	PBF	-4.87	-15.32%	414276800				
18	P	20140123	34.72	34.87	33.57	34.64	4375000	PBFX	-6.65	-23.75%	24815700				
19	P	20140124	34.58	34.58	33.37	33.55	5481100	PBH	-1.08	-3.02%	87008100				
20	P	20140127	33.85	34.2	32.36	33.12	5644200	PBI	1.07	4.59%	555659700				
21	P	20140128	33.55	34.05	33.33	33.94	4065700	PBI-B	2.19	8.95%	7698900				
22	P	20140129	33.51	34.2	32.78	32.92	4881300	PBR	-6.48	-47.02%	7733747800				
23	P	20140130	35.18	37.95	34.8	36.53	13030000	PBR.A	-7.11	-48.40%	3233705500				
24	P	20140131	36.71	36.8	35.6	36.07	6497300	PBT	-3.31	-25.74%	39823900				
25	P	20140203	36.68	37.73	34.39	34.98	10863900	PBYI	85.74	82.82%	99964400				
26	P	20140204	35.97	36.03	34.77	35.8	5768500	PCF	-0.15	-1.82%	10939400				
27	P	20140205	36	36.3	34.06	35.83	13650600	PCG	12.96	32.17%	763105900				
28	P	20140206	33.18	34	30.83	31.23	12851000	PCI	-4.83	-8.14%	142840200				