

Task 1

Q1 Part a) Import Datasets

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The CONTENTS Procedure

Data Set Name	WORK.NASDAQ2	Observations	72
Member Type	DATA	Variables	14
Engine	V9	Indexes	0
Created	04/27/2022 21:54:04	Observation Length	200
Last Modified	04/27/2022 21:54:04	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	654
Obs in First Data Page	72
Number of Data Set Repairs	0
Filename	/saswork/SAS_work8AFB0000CA7D_odaws01-usw2-2.oda.sas.com/SAS_work32D30000CA7D_odaws01-usw2-2.oda.sas.com/nasdaq2.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	2214599253
Access Permission	rw-r--r--
Owner Name	u61397358
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
7	DividendYield	Num	8	BEST12.	BEST32.
12	EBITDA	Num	8	BEST12.	BEST32.
8	EarningsperShare	Num	8	BEST12.	BEST32.
1	Exchange	Char	30	\$30.	\$6.
9	FiftytwoWeekHigh	Num	8	BEST12.	BEST32.
10	FiftytwoWeekLow	Num	8	BEST12.	BEST32.

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Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
11	MarketCap_000s	Num	8	BEST12.	BEST32.
3	Name	Char	35	\$35.	\$26.
5	Price	Num	8	BEST12.	BEST32.
14	PricetoBook	Num	8	BEST12.	BEST32.
6	PricetoEarnings	Num	8	BEST12.	BEST32.
13	PricetoSales	Num	8	BEST12.	BEST32.
4	Sector	Char	22	\$22.	\$22.
2	Symbol	Char	30	\$30.	\$5.

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Data Set Name	WORK.NYSE2	Observations	359
Member Type	DATA	Variables	14
Engine	V9	Indexes	0
Created	04/27/2022 21:54:04	Observation Length	200
Last Modified	04/27/2022 21:54:04	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	131072
Number of Data Set Pages	1
First Data Page	1
Max Obs per Page	654
Obs in First Data Page	359
Number of Data Set Repairs	0
Filename	/saswork/SAS_work8AFB0000CA7D_odaws01-usw2-2.oda.sas.com/SAS_work32D30000CA7D_odaws01-usw2-2.oda.sas.com/nyse2.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	2214599255
Access Permission	rw-r--r--
Owner Name	u61397358
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
7	DividendYield	Num	8	BEST12.	BEST32.
12	EBITDA	Num	8	BEST12.	BEST32.
8	EarningsperShare	Num	8	BEST12.	BEST32.
1	Exchange	Char	30	\$30.	\$4.
9	FiftytwoWeekHigh	Num	8	BEST12.	BEST32.
10	FiftytwoWeekLow	Num	8	BEST12.	BEST32.

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Alphabetic List of Variables and Attributes					
#	Variable	Type	Len	Format	Informat
11	MarketCap_000s	Num	8	BEST12.	BEST32.
3	Name	Char	35	\$35.	\$35.
5	Price	Num	8	BEST12.	BEST32.
14	PricetoBook	Num	8	BEST12.	BEST32.
6	PricetoEarnings	Num	8	BEST12.	BEST32.
13	PricetoSales	Num	8	BEST12.	BEST32.
2	SYMBOL	Char	30	\$30.	\$4.
4	Sector	Char	22	\$22.	\$22.

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
1	NASDAQ	ATVI	Activision Blizzard	Information_Technology	65.83	31.8	0.43	1.28
2	NASDAQ	ADBE	Adobe Systems Inc	Information_Technology	185.16	52.31	0	3.39
3	NASDAQ	AMD	Advanced Micro Devices Inc	Information_Technology	11.22	187	.	0.03
4	NASDAQ	ALGN	Align Technology	Health_Care	220.71	56.59	.	2.84
5	NASDAQ	GOOGL	Alphabet Inc Class A	Information_Technology	1007.71	31.48	.	22.27
6	NASDAQ	GOOG	Alphabet Inc Class C	Information_Technology	1001.52	40.29	.	22.27
7	NASDAQ	AMZN	Amazon.com Inc	Consumer_Discretionary	1350.5	296.16	0	6.16
8	NASDAQ	AEP	American Electric Power	Utilities	63.38	17.32	3.85	1.24
9	NASDAQ	AMGN	Amgen Inc	Health_Care	173.12	13.76	2.98	2.57
10	NASDAQ	ADI	Analog Devices, Inc.	Information_Technology	82.68	17.67	2.11	2.11
11	NASDAQ	ANSS	ANSYS	Information_Technology	148.84	42.53	0	2.99
12	NASDAQ	AAPL	Apple Inc.	Information_Technology	155.15	16.86	1.58	9.2
13	NASDAQ	AMAT	Applied Materials Inc	Information_Technology	45.75	14.08	0.82	3.17
14	NASDAQ	ADSK	Autodesk Inc	Information_Technology	104.81	-77.07	0	-2.61
15	NASDAQ	ADP	Automatic Data Processing	Information_Technology	108.25	29.34	2.22	3.85
16	NASDAQ	BIIB	Biogen Inc.	Health_Care	311.79	14.3	0	11.94
17	NASDAQ	AVGO	Broadcom	Information_Technology	229.57	15.94	2.95	4.01

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
1	74.945	38.93	52518668	2704000000	10.59512	5.16
2	204.45	114.451	94550214	2538040000	13.092818	11.06
3	15.65	9.7	11191664	339000000	2.1091955	21.47
4	287.32	92.61	18788041	380326000	13.138819	16.44
5	1198	824.3	733823966	34217000000	6.801692	4.7
6	1186.89	803.1903	728535558	32714000000	6.772653	4.67
7	1498	812.5	685873375	16132000000	3.927053	24.28
8	78.07	62.69	31701917	4450800000	2.7489934	1.81
9	201.23	152.16	128133340	11945000000	5.58192	3.91
10	98.38	74.65	31811579	1663384000	8.00391	3.13
11	164.9	94.52	13155919	458515000	16.8134	5.79
12	180.1	131.12	809508034	79386000000	3.4586093	5.66
13	60.89	34.58	51296482	4336000000	4.7020154	5.44
14	131.1	81.75	24348295	-378100000	16.50682	224.13
15	125.24	95.5	50337702	2767400000	4.0483294	12.86
16	370.57	244.28	69157726	6511400000	5.737439	5.51
17	285.68	202.61	92791975	7016000000	6.961893	4.4

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
18	NASDAQ	CDNS	Cadence Design Systems	Information_Technology	36.82	34.09	0	0.74
19	NASDAQ	CERN	Cerner	Health_Care	61.22	27.09	0	1.84
20	NASDAQ	CHTR	Charter Communications	Consumer_Discretionary	348.65	162.92	0	34.08
21	NASDAQ	CTAS	Cintas Corporation	Industrials	149.32	32.75	1.03	4.38
22	NASDAQ	CSCO	Cisco Systems	Information_Technology	38.77	17.87	2.88	1.91
23	NASDAQ	CTSH	Cognizant Technology Solut	Information_Technology	75.16	22.44	1.05	2.54
24	NASDAQ	CMCSA	Comcast Corp.	Consumer_Discretionary	38.19	18.54	1.89	4.74
25	NASDAQ	COST	Costco Wholesale Corp.	Consumer_Staples	178.61	30.69	1.09	6.09
26	NASDAQ	CSX	CSX Corp.	Industrials	50.47	21.94	1.51	6.07
27	NASDAQ	DLTR	Dollar Tree	Consumer_Discretionary	101.58	26.66	0	3.77
28	NASDAQ	EBAY	eBay Inc.	Information_Technology	41.02	24.86	0	-1.07
29	NASDAQ	EA	Electronic Arts	Information_Technology	116.54	34.48	0	3.07
30	NASDAQ	EXC	Exelon Corp.	Utilities	35.98	14.51	3.82	1.23
31	NASDAQ	FB	Facebook, Inc.	Information_Technology	171.58	27.9	0	5.39
32	NASDAQ	FAST	Fastenal Co	Industrials	52.15	27.02	2.78	2.01
33	NASDAQ	FISV	Fiserv Inc	Information_Technology	133.05	27.32	0	4.14
34	NASDAQ	GILD	Gilead Sciences	Health_Care	78.22	8.16	2.75	9.95

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
18	46	29.01	10890625	455607000	5.751737	10.98
19	73.86	51.2617	21101698	1523440000	5.5560412	4.62
20	408.83	308.3	86708878	14694000000	2.1208634	2.27
21	169.96	113.79	16676146	1097295000	2.7614057	6.53
22	42.98	30.36	199425716	15447000000	5.484418	3.07
23	79.28	54.76	45119684	2946000000	3.9678397	3.94
24	44	34.78	186476997	28675000000	2.1797748	2.65
25	199.88	150	80439805	5679000000	0.61203885	7.24
26	60.04	45.41	47340512	5003000000	4.216355	4.27
27	116.65	65.63	25151198	2430300000	1.6097589	4.08
28	46.99	31.89	44216696	2941000000	4.6720185	3.8
29	131.01	81.27	37890227	1560000000	7.4415817	8.54
30	42.67	33.3	34734817	8548000000	1.3933871	1.26
31	195.32	132.44	523423037	23624000000	13.241967	7.08
32	57.815	39.79	15311373	1009600000	3.472977	7.39
33	144.2	106.2	26918950	1911000000	6.518713	11.54
34	89.54	63.759	108106822	17590000000	5.2087464	4.12

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
35	NASDAQ	HON	Honeywell Int'l Inc.	Industrials	146.02	20.68	1.97	2.08
36	NASDAQ	IDXX	IDEXX Laboratories	Health_Care	169.28	53.57	0	2.94
37	NASDAQ	ILMN	Illumina Inc	Health_Care	209.54	52.25	0	4.92
38	NASDAQ	INCY	Incyte	Health_Care	83.92	-119.89	0	0.54
39	NASDAQ	INTC	Intel Corp.	Information_Technology	42.75	12.32	2.65	1.98
40	NASDAQ	INTU	Intuit Inc.	Information_Technology	152.75	40.52	0.97	3.72
41	NASDAQ	ISRG	Intuitive Surgical Inc.	Health_Care	381.87	48.58	0	5.67
42	NASDAQ	KLAC	KLA-Tencor Corp.	Information_Technology	98.54	16.59	2.3	5.88
43	NASDAQ	KHC	Kraft Heinz Co	Consumer_Staples	71.58	20.11	3.4	2.81
44	NASDAQ	LRCX	Lam Research	Information_Technology	162.23	16.29	1.17	9.22
45	NASDAQ	MAR	Marriott Int'l.	Consumer_Discretionary	133.88	32.73	0.95	2.67
46	NASDAQ	MCHP	Microchip Technology	Information_Technology	79.9	21.77	1.75	0.66
47	NASDAQ	MU	Micron Technology	Information_Technology	40	9.01	0	4.36
48	NASDAQ	MSFT	Microsoft Corp.	Information_Technology	85.01	25.76	1.87	2.97
49	NASDAQ	MDLZ	Mondelez International	Consumer_Staples	42.68	19.85	2	1.91
50	NASDAQ	MNST	Monster Beverage	Consumer_Staples	61.99	42.17	0	1.19
51	NASDAQ	NFLX	Netflix Inc.	Information_Technology	250.1	200.08	0	1.25

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
35	165.13	119.31	114422169	8333000000	2.8267899	5.71
36	198.73	140.63	15422885	478307000	7.97525	196.21
37	248.97	158.0203	32295200	1192000000	11.713953	10.89
38	153.15	84.21	18220961	-81686000	17.02699	10.25
39	50.85	33.23	211536000	26247000000	3.348876	3.34
40	170.59	111.9	41233772	1654000000	9.633731	33.5
41	452	233.10643	44866621	1153700000	14.655261	9.48
42	121.65	86.33	16078622	1506642000	4.3395863	12.93
43	97.77	72.05	89618309	7832000000	4.6780853	1.54
44	219.7	113.1982	27967535	2967218000	3.0405293	4.52
45	149.21	85.3725	50910130	2620000000	2.9997249	11.02
46	99.17	69.76	19393096	997492000	7.4475183	5.9
47	49.89	22.64	48576792	12541000000	2.1912806	2.02
48	96.07	63.22	689978437	41079000000	7.1130967	9.49
49	47.23	39.19	65827818	4355000000	2.5708609	2.52
50	70.215	41.02	36403831	1229478000	14.152587	9.56
51	286.81	138.26	114805405	809028000	9.861594	30.8

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
52	NASDAQ	NVDA	Nvidia Corporation	Information_Technology	217.52	82.08	0.26
53	NASDAQ	ORLY	O'Reilly Automotive	Consumer_Discretionary	252.22	21.91	0
54	NASDAQ	PCAR	PACCAR Inc.	Industrials	66.98	15.72	1.46
55	NASDAQ	PAYX	Paychex Inc.	Information_Technology	61.86	27.49	3.09
56	NASDAQ	PYPL	PayPal	Information_Technology	72.32	49.53	0
57	NASDAQ	PEP	PepsiCo Inc.	Consumer_Staples	110.15	21.51	2.84
58	NASDAQ	QCOM	QUALCOMM Inc.	Information_Technology	62.42	16.51	3.51
59	NASDAQ	REGN	Regeneron	Health_Care	322.62	27.93	0
60	NASDAQ	ROST	Ross Stores	Consumer_Discretionary	75.06	26.52	0.82
61	NASDAQ	SWKS	Skyworks Solutions	Information_Technology	99.04	16.45	1.26
62	NASDAQ	SBUX	Starbucks Corp.	Consumer_Discretionary	53.77	25.98	2.2
63	NASDAQ	SNPS	Synopsys Inc.	Information_Technology	82.62	67.72	0
64	NASDAQ	TXN	Texas Instruments	Information_Technology	97.66	24.05	2.43
65	NASDAQ	FOXA	Twenty-First Century Fox C	Consumer_Discretionary	34.56	17.81	1
66	NASDAQ	FOX	Twenty-First Century Fox C	Consumer_Discretionary	34.09	17.57	1.01
67	NASDAQ	VRSN	Verisign Inc.	Information_Technology	105.62	29.5	0
68	NASDAQ	VRSK	Verisk Analytics	Industrials	92.28	28.84	0

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
52	2.57	249.27	95.17	138652800	3098000000	20.094294	20.39
53	10.73	279.23	169.43	21433782	1965187000	3.1934319	34.12
54	4.75	79.69	61.93	24152103	3619200000	1.28693	3.07
55	2.26	73.1	54.2	23253667	1414900000	7.248487	11.77
56	1.47	86.32	39.92	90708000	2932000000	6.935696	5.81
57	4.36	122.51	104.77	161413271	12843000000	3.6705062	.
58	1.65	69.28	48.92	96282829	4191000000	4.263658	3.82
59	7.74	543.5518	319.5	35950369	2043160000	8.48541	5.89
60	2.83	85.66	52.85	29803566	2247009000	2.9734495	10.28
61	5.41	117.65	90.53	18493081	1122900000	6.9704437	4.25
62	1.97	64.87	52.58	76548976	7361500000	3.4392443	13.36
63	0.87	94.8	64.75	12767068	579844000	6.276264	3.98
64	3.6	120.75	74.52	100262526	7013000000	6.9572234	9.32
65	1.59	39.135	24.81	44027095	5280000000	2.1080317	4.11
66	1.59	38.56	24.3	66135314	5280000000	3.1654842	4.04
67	3.43	118.28	81.17	10754984	767864000	12.401829	10.82
68	3.45	100.54	75.6	15594677	1011200000	9.935474	9.34

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
69	NASDAQ	VRTX	Vertex Pharmaceuticals Inc	Health_Care	151.6	252.67	0
70	NASDAQ	WBA	Walgreens Boots Alliance	Consumer_Staples	68.22	13.38	2.24
71	NASDAQ	XEL	Xcel Energy Inc	Utilities	42.44	18.14	3.39
72	NASDAQ	XLNX	Xilinx Inc	Information_Technology	62.82	27.19	2.09
73	NYSE	CHK	Chesapeake Energy	Energy	2.82	4.7	0
74	NYSE	CVX	Chevron Corp.	Energy	112.3	27.52	3.89
75	NYSE	CMG	Chipotle Mexican Grill	Consumer_Discretionary	266.01	45.86	0
76	NYSE	CB	Chubb Limited	Financials	140.39	17.5	1.93
77	NYSE	CHD	Church & Dwight	Consumer_Staples	47.38	24.42	1.84
78	NYSE	CI	CIGNA Corp.	Health_Care	189.27	18.11	0.02
79	NYSE	XEC	Cimarex Energy	Energy	100.19	26.37	0.3
80	NYSE	C	Citigroup Inc.	Financials	71.87	13.48	1.71
81	NYSE	CFG	Citizens Financial Group	Financials	42.19	16.04	1.96
82	NYSE	CMS	CMS Energy	Utilities	41.77	21.42	3.39
83	NYSE	KO	Coca-Cola Company (The)	Consumer_Staples	43.1	22.8	3.32
84	NYSE	CL	Colgate-Palmolive	Consumer_Staples	68.95	24.02	2.28
85	NYSE	CMA	Comerica Inc.	Financials	89.18	18.89	1.28

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
69	1.04	174.955	84.39	39369386	97562000	16.185404	21.91
70	3.78	88	63.82	70862542	7083000000	0.5904388	3.06
71	2.21	52.22	41.16	21559612	3885828000	2.520456	1.94
72	2.32	77.26	54.99	17064976	845468000	7.101206	7.22
73	-6.44	6.59	2.8	2626102	1470000000	0.40765184	1.84
74	4.85	133.88	102.55	218978820	28877000000	1.6489863	1.71
75	0.8	499	263	7685284	401293000	2.5523853	6.11
76	8.2	157.5	130.17	68424671	0	2.0985637	1.35
77	2.92	54.1799	43.21	11838963	868000000	3.1682448	6.28
78	7.2	227.13	141.93	47680910	0	1.550762	3.39
79	-4.64	136.31	89.49	10089082	1061056000	7.556446	4.28
80	-3.1	80.7	56.14	192709302	0	2.1857586	0.9
81	3.27	48.23	31.51	22008051	0	3.3917346	1.08
82	1.99	50.85	41.07	11873961	2099000000	2.4711676	2.65
83	1.49	48.615	40.22	189855336	8589000000	6.822138	8.65
84	2.28	77.91	66.26	61616643	4064000000	4.000737	236.42
85	4.13	98.18	64.04	16274969	0	4.905472	1.96

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
86	NYSE	CAG	Conagra Brands	Consumer_Staples	35.49	18.2	2.37
87	NYSE	CXO	Concho Resources	Energy	140.09	84.39	0
88	NYSE	COP	ConocoPhillips	Energy	53.24	72.93	2.05
89	NYSE	ED	Consolidated Edison	Utilities	74.73	18.64	3.8
90	NYSE	STZ	Constellation Brands	Consumer_Staples	208.73	30.92	0.97
91	NYSE	GLW	Corning Inc.	Information_Technology	28.45	16.45	2.08
92	NYSE	COTY	Coty, Inc	Consumer_Staples	19.96	24.64	2.86
93	NYSE	CCI	Crown Castle International Corp.	Real_Estate	103.81	21.45	3.86
94	NYSE	CMI	Cummins Inc.	Industrials	165.73	16.83	2.5
95	NYSE	CVS	CVS Health	Consumer_Staples	70.55	12.36	2.69
96	NYSE	DHI	D. R. Horton	Consumer_Discretionary	44.55	16.32	1.08
97	NYSE	DHR	Danaher Corp.	Health_Care	92.16	22.87	0.59
98	NYSE	DRI	Darden Restaurants	Consumer_Discretionary	91.33	22.72	2.65
99	NYSE	DVA	DaVita Inc.	Health_Care	71.91	20.55	0
100	NYSE	DE	Deere & Co.	Industrials	153.66	23.14	1.49
101	NYSE	DAL	Delta Air Lines Inc.	Industrials	51.23	10.37	2.27
102	NYSE	DVN	Devon Energy Corp.	Energy	34.94	23.93	0.65

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
86	1.46	41.68	32.16	14379718	1281200000	1.8294994	3.86
87	-11.04	162.91	106.73	22021882	2151190000	12.271951	2.61
88	-0.65	61.315	42.265	65482462	5328000000	2.0764177	2.16
89	4.1	89.7	72.63	23335778	4288000000	2.960244	1.58
90	8.71	229.5	152.01	41697453	3033300000	5.145596	5.14
91	-0.78	35.1	26.31	25759280	2970000000	2.544682	1.71
92	-0.63	21.175	14.24	13101113	211400000	2.0061796	1.37
93	1.02	114.97	86.93	44183023	2292600000	10.125291	3.54
94	8.23	194.18	143.8301	28669231	2924000000	1.9406168	3.89
95	4.91	84	66.45	75323142	11704000000	0.549852	2.13
96	2.73	53.32	29.3716	17390874	1691000000	1.1931022	2.17
97	3.53	104.82	78.97	66351150	4339800000	3.688278	2.65
98	3.81	100.11	71.7	11745595	997600000	1.5278828	5.89
99	4.3	80.71	52.51	13685178	2252294000	1.1451397	2.79
100	6.64	171.96	106.72	52186629	4053300000	2.3746448	5.31
101	4.94	60.79	43.81	38393604	8348000000	0.91792434	2.67
102	-6.89	47.25	28.7947	19317380	3723000000	2.0660408	2.85

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
103	NYSE	DLR	Digital Realty Trust Inc	Real_Estate	98.96	16.55	3.57
104	NYSE	DFS	Discover Financial Services	Financials	72.4	12.13	1.83
105	NYSE	DG	Dollar General	Consumer_Discretionary	95.1	21.18	1.06
106	NYSE	D	Dominion Energy	Utilities	73.31	20.42	4.53
107	NYSE	DOV	Dover Corp.	Industrials	96.2	23.87	1.88
108	NYSE	DPS	Dr Pepper Snapple Group	Consumer_Staples	116.93	26.57	1.97
109	NYSE	DTE	DTE Energy Co.	Utilities	98.49	19.12	3.56
110	NYSE	DUK	Duke Energy	Utilities	74.32	16.7	4.78
111	NYSE	DRE	Duke Realty Corp	Real_Estate	24.52	19.77	3.15
112	NYSE	EMN	Eastman Chemical	Materials	93.57	12.28	2.26
113	NYSE	ETN	Eaton Corporation	Industrials	79.41	17.08	2.94
114	NYSE	ECL	Ecolab Inc.	Materials	127.76	28.08	1.23
115	NYSE	EIX	Edison Int'l	Utilities	58.07	13.23	4.05
116	NYSE	EW	Edwards Lifesciences	Health_Care	123.78	32.57	0
117	NYSE	EMR	Emerson Electric Company	Industrials	66.4	25.74	2.81
118	NYSE	ETR	Entergy Corp.	Utilities	72.02	10.65	4.89
119	NYSE	EVHC	Envision Healthcare	Health_Care	35.34	10.91	0

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
103	2.19	127.23	101.101	21400953	1260662000	12.434961	2.32
104	5.41	81.93	57.5	27433540	0	2.3610325	2.52
105	4.43	105.82	65.97	26580645	2457604000	1.5283886	4.53
106	4.91	85.3	71.59	47543572	6428000000	3.7954214	2.96
107	5.15	109.06	75.51	15566646	1513291000	1.986176	3.59
108	4.54	126.65	83.23	21209784	1507000000	4.2149186	9.99
109	4.82	116.74	96.56	17808074	2790000000	1.9091922	1.95
110	3.12	91.8	72.93	52078186	9895000000	2.9348857	1.27
111	0.88	30.14	24.73	9035293	529483000	16.077257	1.94
112	10.12	104.08	76.02	14226831	2152000000	1.4904785	2.78
113	6.68	89.85	69.45	35961772	4253000000	1.8161736	2.17
114	4.14	140.5	119.61	38460272	2848600000	3.7360687	5.28
115	3.96	83.38	58.76	19447671	4284000000	2.161095	1.59
116	2.88	138.48	89.2	27447100	1156700000	7.8283277	8.48
117	2.35	74.45	56.77	44040298	2542000000	3.6707752	5.01
118	-3.26	87.95	69.63	13116895	880700000	1.5543115	1.54
119	-0.48	73	23.77	4212729	827200000	1.227099	0.64

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
120	NYSE	EOG	EOG Resources	Energy	101.04	246.44	0.63
121	NYSE	EQT	EQT Corporation	Energy	46.25	53.16	0.25
122	NYSE	EFX	Equifax Inc.	Industrials	114	19.03	1.33
123	NYSE	EQR	Equity Residential	Real_Estate	55.26	17.6	3.54
124	NYSE	ESS	Essex Property Trust, Inc.	Real_Estate	218.28	18.66	3.21
125	NYSE	EL	Estee Lauder Cos.	Consumer_Staples	131.46	37.78	1.13
126	NYSE	RE	Everest Re Group Ltd.	Financials	241.06	27.24	2.11
127	NYSE	EXR	Extra Space Storage	Real_Estate	77.56	18.12	3.88
128	NYSE	XOM	Exxon Mobil Corp.	Energy	76.07	21.37	4
129	NYSE	FRT	Federal Realty Investment Trust	Real_Estate	108.11	18.35	3.59
130	NYSE	FDX	FedEx Corporation	Industrials	239.27	19.45	0.8
131	NYSE	FIS	Fidelity National Information Servi	Information_Technology	92.74	22.08	1.32
132	NYSE	FE	FirstEnergy Corp	Utilities	30.64	11.18	4.67
133	NYSE	FLS	Flowserve Corporation	Industrials	40.82	26.17	1.83
134	NYSE	FLR	Fluor Corp.	Industrials	55.31	19.9	1.47
135	NYSE	FMC	FMC Corporation	Materials	80.87	32.48	0.79
136	NYSE	FL	Foot Locker Inc	Consumer_Discretionary	45.88	9.5	2.58

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
120	-1.98	119	81.99	61164030	3692749000	8.02302	4.55
121	-2.69	67.84	47.13	12638829	1518305000	6.4987307	2.15
122	4.04	147.02	90.72	14121335	1141200000	5.6338058	4.59
123	1.63	70.455	56.07	20925508	1710686000	8.593619	2.09
124	6.27	270.04	214.03	14383525	1237886000	14.1830845	2.3
125	3.35	138.74	81.69	49543264	2478000000	3.9522583	10.82
126	23.71	277.17	208.81	10131893	0	2.0991988	1.16
127	2.92	88.56	71.34	10133548	717468000	12.204818	4.54
128	1.88	89.3	76.05	326148660	39052000000	1.7701944	1.85
129	3.5	143.79	109.74	8077369	540767000	12.898601	3.98
130	11.07	274.66	182.89	67280479	8062000000	1.0751684	3.9
131	1.72	103.65	77.63	32308460	2782000000	4.7038417	3.25
132	-14.49	35.22	27.93	13706075	-5067000000	1.2994481	2.19
133	1.12	51.92	37.51	5427885	463066000	2.0803037	3.15
134	1.99	62.09	37.0351	7978485	709756000	0.5516402	2.4
135	1.56	98.7	56.53	11273962	557800000	6.0089035	5.26
136	4.91	77.86	28.42	5819080	957000000	1.0362948	.

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
137	NYSE	F	Ford Motor	Consumer_Discretionary	10.43	5.89	6.78
138	NYSE	FBHS	Fortune Brands Home & Security	Industrials	62.44	20.27	1.26
139	NYSE	BEN	Franklin Resources	Financials	38	12.67	2.33
140	NYSE	FCX	Freeport-McMoRan Inc.	Materials	17.16	14.67	1.12
141	NYSE	GPS	Gap Inc.	Consumer_Discretionary	31.17	15.35	2.82
142	NYSE	IT	Gartner Inc	Information_Technology	114.26	36.86	0
143	NYSE	GD	General Dynamics	Industrials	206.05	20.71	1.56
144	NYSE	GE	General Electric	Industrials	14.45	13.76	3.15
145	NYSE	GGP	General Growth Properties Inc.	Real_Estate	21.62	13.86	4.01
146	NYSE	GIS	General Mills	Consumer_Staples	53.99	17.53	3.59
147	NYSE	GM	General Motors	Consumer_Discretionary	40.75	6.58	3.59
148	NYSE	GPC	Genuine Parts	Consumer_Discretionary	96.31	21.17	2.72
149	NYSE	GPN	Global Payments Inc.	Information_Technology	100.59	27.86	0.04
150	NYSE	GS	Goldman Sachs Group	Financials	246.35	12.44	1.17
151	NYSE	GWW	Grainger (W.W.) Inc.	Industrials	258.6	22.57	1.97
152	NYSE	HAL	Halliburton Co.	Energy	47.41	38.86	1.45
153	NYSE	HBI	Hanesbrands Inc	Consumer_Discretionary	19.57	10.04	2.73

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
137	1.9	13.48	10.19	42414328	9281000000	0.27054095	1.26
138	3.04	73.62	55.25	9624169	814500000	1.8434572	3.76
139	3	47.65	37.01	21759188	2711300000	3.399101	1.83
140	1.24	20.25	11.05	25853969	5347000000	1.6538345	3.66
141	1.69	35.68	21.02	12684518	1959000000	1.1289738	3.93
142	2.31	142.16	97.96	10828314	234935000	4.894499	13.47
143	9.55	229.54	181.94	64180391	4618000000	2.0481362	5.45
144	-0.72	30.59	14.71	132249296	-206000000	1.0887611	1.7
145	1.34	25.72	18.83	21018887	1740540000	17.003777	2.57
146	2.77	63.73	49.65	31098243	3107600000	2.0389178	7.26
147	6	46.76	31.92	61536606	23541000000	0.5633218	1.33
148	4.6	107.75	79.86	14554322	1201517000	1.212236	4.33
149	1.58	113.26	76.47	16920023	960345000	5.775833	4.73
150	8.61	273.79	209.62	96978500	0	2.309415	1.25
151	10.02	298.145	155	14639308	1279846000	1.3995146	8.1
152	-0.53	57.86	38.181	43356557	2910000000	2.1424224	4.74
153	1.41	25.73	18.9	8006269	926153000	1.6339768	6.17

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
154	NYSE	HOG	Harley-Davidson	Consumer_Discretionary	47.54	13.7	3.02
155	NYSE	HRS	Harris Corporation	Information_Technology	149.84	26.38	1.49
156	NYSE	HIG	Hartford Financial Svc.Gp.	Financials	53.34	14.34	1.79
157	NYSE	HCA	HCA Holdings	Health_Care	95.97	14.07	1.42
158	NYSE	HCP	HCP Inc.	Real_Estate	22.64	10.99	6.33
159	NYSE	HP	Helmerich & Payne	Energy	64.87	-54.51	4.15
160	NYSE	HES	Hess Corporation	Energy	43	-9.33	2.27
161	NYSE	HLT	Hilton Worldwide Holdings Inc	Consumer_Discretionary	78.66	36.42	0.73
162	NYSE	HD	Home Depot	Consumer_Discretionary	181.22	28.1	1.86
163	NYSE	HRL	Hormel Foods Corp.	Consumer_Staples	32.21	20.39	2.29
164	NYSE	HST	Host Hotels & Resorts	Real_Estate	18.75	11.23	4.11
165	NYSE	HPQ	HP Inc.	Information_Technology	19.92	12.07	2.63
166	NYSE	HUM	Humana Inc.	Health_Care	262.37	22.39	0.6
167	NYSE	HII	Huntington Ingalls Industries	Industrials	225.37	18.75	1.23
168	NYSE	ITW	Illinois Tool Works	Industrials	156.15	23.62	1.91
169	NYSE	IR	Ingersoll-Rand PLC	Industrials	87.6	19.38	1.97
170	NYSE	ICE	Intercontinental Exchange	Financials	67	22.95	5.43

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
154	2.98	63.4	44.52	8158950	1058817000	1.66195	4.31
155	4.43	160.67	104.16	18140727	1368000000	2.9516637	5.88
156	2.27	59.2	46.35	19926306	0	1.3939538	1.15
157	5.94	106.84	71.18	34449053	8202000000	0.7251921	.
158	1.33	33.67	22.8	10967756	1412684000	8.127109	1.97
159	-1.2	75.02	42.16	7345244	483673000	3.7385862	1.62
160	-19.94	55.48	37.25	14016130	-819000000	3.780475	1.08
161	1.05	88.11	55.79	26242416	2815000000	3.7628453	17.67
162	6.46	207.605	136.82	223378633	16513000000	2.8964398	84.08
163	1.57	38	29.75	17338613	1422305000	2.5174792	3.49
164	1.02	21.53	17.26	14394715	1547000000	3.5549128	2.02
165	1.49	24.1	15.39	34895294	3700000000	0.8954903	0.66
166	4.06	293.35	189.01	36973617	0	0.9256895	3.33
167	12.15	253.44	183.42	10628248	1107000000	1.8924941	6.04
168	4.86	179.07	126.52	55994378	3924000000	3.9286149	10.99
169	5.07	97.67	77.26	22785451	1987100000	1.6147361	3.34
170	2.37	76.1378	56.8	41373051	3103000000	9.619987	2.62

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
171	NYSE	IBM	International Business Machines	Information_Technology	147.59	10.67	3.9
172	NYSE	IP	International Paper	Materials	56.05	15.57	3.21
173	NYSE	IPG	Interpublic Group	Consumer_Discretionary	21.34	15.46	3.38
174	NYSE	IFF	Intl Flavors & Fragrances	Materials	138	24.17	1.93
175	NYSE	IVZ	Invesco Ltd.	Financials	31.92	11.87	3.47
176	NYSE	IRM	Iron Mountain Incorporated	Real_Estate	32.07	15.42	7.08
177	NYSE	JEC	Jacobs Engineering Group	Industrials	62.82	19.45	0.91
178	NYSE	SJM	JM Smucker	Consumer_Staples	118.37	15.35	2.6
179	NYSE	JNJ	Johnson & Johnson	Health_Care	126.36	17.31	2.56
180	NYSE	JCI	Johnson Controls International	Industrials	36.55	14	2.77
181	NYSE	JPM	JPMorgan Chase & Co.	Financials	107.88	15.43	1.98
182	NYSE	JNPR	Juniper Networks	Information_Technology	24.66	14.09	1.58
183	NYSE	KSU	Kansas City Southern	Industrials	103.53	19.8	1.34
184	NYSE	K	Kellogg Co.	Consumer_Staples	65.98	16.5	3.36
185	NYSE	KEY	KeyCorp	Financials	20.08	14.66	1.99
186	NYSE	KMB	Kimberly-Clark	Consumer_Staples	111.69	17.93	3.56
187	NYSE	KIM	Kimco Realty	Real_Estate	14.01	9.28	7.71

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
171	6.11	182.79	139.13	142433004	16557000000	1.817167	7.7
172	5.14	66.94	49.6	24465996	3004000000	1.0738261	4.99
173	1.49	25.71	18.3	8277363	1074900000	1.4712903	4.01
174	5.05	157.4	116.3	11270040	699963000	4.4208813	6.34
175	2.74	38.43	29.36	13620848	1606200000	2.6513786	1.62
176	0.46	41.53	32.05	9410249	1116140000	3.2898626	4.97
177	2.43	72.18	49.31	9326484	409832000	1.2129636	2.01
178	5.1	143.68	99.565	13612395	1411300000	2.496677	1.88
179	0.39	148.32	113.15	353062465	22430000000	4.6326222	4.74
180	1.71	44.37	34.51	34822225	4295000000	1.1415336	1.69
181	6.3	117.3529	81.635	386613611	0	3.3714993	1.6
182	0.78	30.96	23.87	9267350	1115500000	1.8543326	1.78
183	9.16	114.85	81.54	11037041	1295400000	4.281897	2.39
184	1.95	76.69	58.76	22182795	1827000000	2.3173764	11.5
185	1.12	22.22	16.28	22589745	0	3.270451	1.55
186	6.41	136.21	109.67	39449596	4033000000	2.1947837	151.66
187	0.8	25.15	14.33	6180487	701190000	7.0508943	1.2

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
188	NYSE	KMI	Kinder Morgan	Energy	16.8	25.07	2.89
189	NYSE	KSS	Kohl's Corp.	Consumer_Discretionary	60.34	16.01	3.5
190	NYSE	KR	Kroger Co.	Consumer_Staples	27.57	13.07	1.73
191	NYSE	LB	L Brands Inc.	Consumer_Discretionary	47.77	12.77	4.89
192	NYSE	LLL	L-3 Communications Holdings	Industrials	198.79	23.14	1.44
193	NYSE	LH	Laboratory Corp. of America Holding	Health_Care	165.46	17.79	0
194	NYSE	LEG	Leggett & Platt	Consumer_Discretionary	43.99	17.88	3.15
195	NYSE	LEN	Lennar Corp.	Consumer_Discretionary	59.11	15.35	0.26
196	NYSE	LUK	Leucadia National Corp.	Financials	23.86	15.39	1.6
197	NYSE	LLY	Lilly (Eli) & Co.	Health_Care	74.21	17.34	2.93
198	NYSE	LNC	Lincoln National	Financials	73.86	9.49	1.68
199	NYSE	LMT	Lockheed Martin Corp.	Industrials	334.3	24.28	2.32
200	NYSE	L	Loews Corp.	Financials	46.05	15.99	4.51
201	NYSE	LOW	Lowe's Cos.	Consumer_Discretionary	95.01	23.87	1.64
202	NYSE	LYB	LyondellBasell	Materials	105.79	10.35	3.26
203	NYSE	MTB	M&T Bank Corp.	Financials	178.35	18.91	1.62
204	NYSE	MAC	Macerich	Real_Estate	58.36	14.81	4.92

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
188	0.01	22.75	16.56	38612712	5981000000	2.823936	1.07
189	3.12	69.14	35.16	10570861	2286000000	0.8557757	2.04
190	2.05	34.75	19.69	25471356	5342000000	0.27961263	4.02
191	3.98	63.1	35	13862043	2329000000	1.7060977	1403.38
192	8.51	218.705	159.43	16229343	1137000000	1.4884604	3.12
193	7.02	181.715	130.292	17271388	1861200000	2.2459624	2.71
194	2.76	54.97	42	6034600	447000000	2.0302901	4.89
195	3.38	72.17	43.647053	14615967	1405319000	1.1468264	1.76
196	0.33	28.3	22.23	8910389	2201336000	1.0410156	0.84
197	-0.2	89.09	75.71	84475986	3459800000	3.754678	5.73
198	9.24	86.68	61.45	17123031	0	1.201944	1.04
199	6.83	361.79	256.4	98102120	7115000000	1.8781451	45.55
200	1.93	53.59	45.01	16111167	0	1.5809761	0.85
201	3.46	108.98	70.76	82909679	7858000000	1.5653384	14.1
202	12.25	121.95	78.01	43556650	6851000000	1.3037612	5.86
203	8.69	193.85	141.12	27840827	0	4.6277885	1.79
204	3.43	69.73	52.12	8473119	503183000	11.394877	2.24

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
205	NYSE	M	Macy's Inc.	Consumer_Discretionary	24	7.67	6.1
206	NYSE	MRO	Marathon Oil Corp.	Energy	15.68	-32	1.22
207	NYSE	MPC	Marathon Petroleum	Energy	62.79	16.06	2.83
208	NYSE	MMC	Marsh & McLennan	Financials	79.31	20.23	1.83
209	NYSE	MLM	Martin Marietta Materials	Materials	208.42	30.38	0.8
210	NYSE	MAS	Masco Corp.	Industrials	40.7	22.12	0.98
211	NYSE	MA	Mastercard Inc.	Information_Technology	160.62	34.99	0.59
212	NYSE	MKC	McCormick & Co.	Consumer_Staples	101.36	23.91	2.03
213	NYSE	MCD	McDonald's Corp.	Consumer_Discretionary	158.97	23.83	2.44
214	NYSE	MCK	McKesson Corp.	Health_Care	150.23	11.68	0.89
215	NYSE	MDT	Medtronic plc	Health_Care	78.38	17.04	2.26
216	NYSE	MRK	Merck & Co.	Health_Care	54.73	13.75	3.44
217	NYSE	MET	MetLife Inc.	Financials	44.28	8.52	3.46
218	NYSE	MTD	Mettler Toledo	Health_Care	601	35.56	0
219	NYSE	MGM	MGM Resorts International	Consumer_Discretionary	33.5	29.65	1.27
220	NYSE	KORS	Michael Kors Holdings	Consumer_Discretionary	60.03	14.29	0
221	NYSE	MAA	Mid-America Apartments	Real_Estate	85.39	14.38	4.2

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
205	1.98	33.73	17.405	7541063	2446000000	0.45503208	1.69
206	-2.65	19.52	10.55	13875005	2266000000	4.6578755	.
207	6.85	73.53	47.39	31633740	5978000000	0.42713487	2.43
208	2.87	86.54	69.33	41819440	3236000000	2.9848945	5.85
209	6.63	244.32	191.09	13756813	975223000	4.416998	3.03
210	1.47	46.445	31.29	13428792	1179000000	2.308266	11.93
211	3.65	177.11	105.8	187102014	7113000000	15.020556	26.93
212	3.73	109.67	90.25	13459353	815700000	2.7788277	5.2
213	6.36	178.7	124.36	132101624	10515400000	5.770237	146.07
214	22.74	178.86	133.82	31534840	7232000000	0.15318617	2.68
215	2.89	89.72	75.44	110107062	9204000000	4.944542	2.14
216	1.4	66.8	53.63	152241530	8715000000	5.0893345	4.02
217	0.63	56.58	44.58	48679364	0	1.0496864	0.85
218	14.24	697.26	459.34	16420774	666706000	8.372307	31.69
219	1.92	38.41	25.15	19633674	2680385000	2.2276719	3.09
220	3.31	69.95	32.38	10053919	456600000	3.1455927	5.4
221	2.86	110.95	86.95	9992629	871483000	6.6291075	1.6

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
222	NYSE	MHK	Mohawk Industries	Consumer_Discretionary	256.57	19.08	0
223	NYSE	TAP	Molson Coors Brewing Company	Consumer_Staples	74.51	17.66	2.15
224	NYSE	MON	Monsanto Co.	Materials	119.08	21.53	1.79
225	NYSE	MCO	Moody's Corp	Financials	152.14	26.55	1.11
226	NYSE	MS	Morgan Stanley	Financials	51.79	14.23	1.83
227	NYSE	MSI	Motorola Solutions Inc.	Information_Technology	98.74	19.03	2.03
228	NYSE	NOV	National Oilwell Varco Inc.	Energy	32.64	-77.71	0.59
229	NYSE	NWL	Newell Brands	Consumer_Discretionary	27.91	9.72	3.12
230	NYSE	NFX	Newfield Exploration Co	Energy	26.38	13.12	0
231	NYSE	NEM	Newmont Mining Corporation	Materials	36.61	26.34	0.81
232	NYSE	NEE	NextEra Energy	Utilities	145.29	21.65	2.65
233	NYSE	NLSN	Nielsen Holdings	Industrials	33.9	18.73	3.62
234	NYSE	NKE	Nike	Consumer_Discretionary	62.49	24.9	1.22
235	NYSE	NI	NiSource Inc.	Utilities	22.51	19.57	3.38
236	NYSE	NBL	Noble Energy Inc	Energy	25.43	105.96	1.48
237	NYSE	JWN	Nordstrom	Consumer_Discretionary	47.23	15.04	3
238	NYSE	NSC	Norfolk Southern Corp.	Industrials	136.89	20.65	2.02

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
222	12.48	286.85	209.9	19897356	1750393000	2.7977824	2.88
223	9.27	102.14	75.79	12396862	4708400000	1.2371694	1.34
224	5.09	123.15	106.97	53076824	4217000000	3.589782	7.96
225	1.35	167.23	106.48	30189978	1238000000	9.932974	73.84
226	3.09	58.05	40.06	97535400	0	2.2258842	1.33
227	-1.08	107.78	77.23	16626040	1629000000	2.6092634	6.81
228	-6.4	41.895	29.9	12940097	353000000	2.5209634	0.91
229	1.17	55.08	23.85	14438346	2021400000	1.2810479	1.01
230	-6.5	43.74	24.41	5695123	896000000	4.703259	4.51
231	-1.18	42.04	31.42	19749449	1509000000	3.7076392	1.81
232	11.39	159.64	124.18	69661178	9018000000	4.091698	2.75
233	1.39	45.73	34.22	13377670	1836000000	2.7288198	3.02
234	2.51	68.83	50.35	106776114	5162000000	3.0549932	8.91
235	1.02	27.76	21.93	7776566	1448600000	2.2361343	1.82
236	-2.32	39.6	22.985	13177325	-518000000	4.6976447	1.44
237	2.02	53	37.7924	8212510	1448000000	0.74603415	9.1
238	18.73	157.1499	109.27	40543547	4737000000	3.8525908	3.09

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Q1 Part c) Combine NASDAQ and NYSE Datasets

Wednesday, April 27, 2022 09:58:50 PM 19

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
239	NYSE	NOC	Northrop Grumman Corp.	Industrials	324.01	24.4	1.3
240	NYSE	NRG	NRG Energy	Utilities	24	17.78	1.42
241	NYSE	NUE	Nucor Corp.	Materials	60.38	17.01	2.42
242	NYSE	OXY	Occidental Petroleum	Energy	68.47	195.63	4.41
243	NYSE	OMC	Omnicom Group	Consumer_Discretionary	75.91	15.27	3.18
244	NYSE	OKE	ONEOK	Energy	54.4	34	5.44
245	NYSE	ORCL	Oracle Corp.	Information_Technology	46.84	18.81	1.56
246	NYSE	PKG	Packaging Corporation of America	Materials	111.95	18.57	2.15
247	NYSE	PH	Parker-Hannifin	Industrials	174.51	21.6	1.44
248	NYSE	PNR	Pentair Ltd.	Industrials	66.67	18.89	2.04
249	NYSE	PKI	PerkinElmer	Health_Care	72.06	24.68	0.37
250	NYSE	PRGO	Perrigo	Health_Care	84.44	.	0.73
251	NYSE	PFE	Pfizer Inc.	Health_Care	33.63	12.69	3.89
252	NYSE	PCG	PG&E Corp.	Utilities	38.24	8.75	0
253	NYSE	PM	Philip Morris International	Consumer_Staples	100.39	22.36	4.33
254	NYSE	PSX	Phillips 66	Energy	92.44	21.11	2.93
255	NYSE	PNW	Pinnacle West Capital	Utilities	74.34	16.06	3.7

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
239	11.47	349.18	231.98	58782414	3884000000	2.209576	7.96
240	-2.23	29.78	14.52	8030036	1774000000	0.9933021	6.73
241	4.1	70.48	51.67	20003317	2648729000	0.99837583	2.34
242	-0.75	78.09	57.2	53467692	5205000000	6.044895	.
243	4.79	86.71	65.32	17377552	2366000000	1.5327156	6.66
244	1.66	61.36	47.14	21988472	1851783000	2.6159565	4.03
245	2.2	53.14	40.01	202302350	16545000000	5.2561646	3.56
246	7.07	131.1316	88.47	11051274	1214900000	1.741522	5.54
247	7.24	212.8	145.38	24421669	2092089000	1.8652664	4.39
248	3.63	74.84	57.63	12466661	863700000	2.5191512	2.48
249	2.64	84.49	52.63	8351767	445658000	3.7116463	3.25
250	-28.01	95.93	63.68	12326380	0	3.3850067	2.03
251	3.51	39.43	31.67	208505542	20569000000	4.0020885	3.4
252	2.78	71.57	38.45	20309412	6471000000	1.5730644	1.09
253	4.48	123.55	96.66	153580672	11802000000	2.7574685	1318.7
254	9.93	107.47	75.135	47996220	5311000000	0.47499472	2.12
255	3.95	92.48	73.81	8397610	1614399000	2.9931207	1.65

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
256	NYSE	PXD	Pioneer Natural Resources	Energy	169.16	118.29	0.18
257	NYSE	PNC	PNC Financial Services	Financials	149.38	17.55	1.94
258	NYSE	RL	Polo Ralph Lauren Corp.	Consumer_Discretionary	101.32	17.74	1.86
259	NYSE	PPG	PPG Industries	Materials	110.3	18.73	1.58
260	NYSE	PPL	PPL Corp.	Utilities	29.52	12.83	5.22
261	NYSE	PX	Praxair Inc.	Materials	144.07	24.63	2.2
262	NYSE	PFG	Principal Financial Group	Financials	60.38	11.96	3.19
263	NYSE	PG	Procter & Gamble	Consumer_Staples	80.22	20.46	3.37
264	NYSE	PGR	Progressive Corp.	Financials	51.07	20.76	2.11
265	NYSE	PLD	Prologis	Real_Estate	58.33	20.76	2.93
266	NYSE	PRU	Prudential Financial	Financials	103.38	9.99	2.7
267	NYSE	PEG	Public Serv. Enterprise Inc.	Utilities	46.73	16.11	3.61
268	NYSE	PSA	Public Storage	Real_Estate	180.49	18.21	4.32
269	NYSE	PHM	Pulte Homes Inc.	Consumer_Discretionary	28.67	12.86	1.2
270	NYSE	PVH	PVH Corp.	Consumer_Discretionary	142.68	20.98	0.1
271	NYSE	PWR	Quanta Services Inc.	Industrials	33.51	17.54	0
272	NYSE	DGX	Quest Diagnostics	Health_Care	96.42	17.07	1.99

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
256	-3.39	199.83	125.46	29983120	1717000000	6.7890477	2.76
257	10.4	160.07	115.25	73315000	0	4.04653	1.53
258	-1.19	119.33	66.06	8753430	506100000	1.3948758	2.44
259	6.31	122.0697	99.57	29043338	2585000000	1.9551051	4.83
260	2.79	40.2	29.205	20839815	3937000000	3.7497053	1.95
261	4.32	166.95	115.53	42948664	3632000000	3.887915	6.88
262	4.5	75.585	58.9401	18457200	0	1.7167546	1.53
263	5.6	94.67	80.1	206318943	17249000000	3.1595004	3.85
264	2.73	58.25	36.84	31062780	0	1.1458876	3.25
265	3.06	67.53	48.69	31953288	2969194000	14.380373	2.11
266	9.73	127.14	97.88	47136080	0	1.083727	0.93
267	1.75	53.28	41.67	24138050	3613000000	3.4491453	1.88
268	6.81	232.21	180.9254	32258540	1924803000	16.16417	6.56
269	1.44	35.21	21.06	8792572	992811000	1.0341544	1.99
270	6.77	157.96	84.53	11478626	1057500000	1.7617522	2.14
271	1.28	40.105	30.23	5330131	649404000	0.77893436	1.43
272	5.5	112.965	90.1	13578300	1453000000	1.7709883	2.82

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
273	NYSE	RRC	Range Resources Corp.	Energy	12.82	35.61	0.61
274	NYSE	RJF	Raymond James Financial Inc.	Financials	86.06	16.94	1.1
275	NYSE	RTN	Raytheon Co.	Industrials	198.74	25.78	1.56
276	NYSE	O	Realty Income Corporation	Real_Estate	47.56	15.54	5.37
277	NYSE	RHT	Red Hat Inc.	Information_Technology	124.65	79.9	0
278	NYSE	REG	Regency Centers Corporation	Real_Estate	55.58	15.27	3.69
279	NYSE	RF	Regions Financial Corp.	Financials	17.9	17.9	1.9
280	NYSE	RSG	Republic Services Inc	Industrials	62.72	26.13	2.14
281	NYSE	RMD	ResMed	Health_Care	89.26	31.54	1.51
282	NYSE	RHI	Robert Half International	Industrials	52.26	20.18	1.71
283	NYSE	ROK	Rockwell Automation Inc.	Industrials	178.73	26.48	1.77
284	NYSE	COL	Rockwell Collins	Industrials	133.31	22.29	0.97
285	NYSE	ROP	Roper Technologies	Industrials	259.4	27.57	0.62
286	NYSE	RCL	Royal Caribbean Cruises Ltd	Consumer_Discretionary	122.45	16.26	1.87
287	NYSE	CRM	Salesforce.com	Information_Technology	104.03	520.15	0
288	NYSE	SCG	SCANA Corp	Utilities	35.6	8.75	6.68
289	NYSE	SLB	Schlumberger Ltd.	Energy	67.4	44.93	2.87

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
273	-2.79	34.09	12.7	3255588	820095000	1.9624339	0.59
274	4.12	99.1	71.35	13216272	0	1.9734555	2.34
275	6.95	213.45	147.86	59066256	3868000000	2.2938328	5.28
276	1.12	63.6	48.89	13784942	1075568000	15.588069	1.92
277	1.68	135.77	78.48	22799924	541809000	8.202077	15.69
278	1.43	72.05	56.66	9858367	487636000	13.762162	1.51
279	1	19.9	13	21500640	0	3.474771	1.32
280	1.77	69.4	57.53	21590904	2734000000	2.8841186	2.83
281	2.41	104.78	67.04	13233623	636942000	6.1640687	6.61
282	2.32	60.59	42.92	7047165	565196000	1.3330402	5.98
283	6.35	210.72	147.67	24123216	1323200000	3.760594	10.94
284	4.8	139.63	89.9	22197871	1696000000	3.781273	3.46
285	9.38	290.415	191.22	27247790	1555209000	5.9715905	4.23
286	7.53	135.65	93.4	27418147	2876309000	3.1026611	2.56
287	0.27	114.52	79.63	79489115	925804000	10.3738785	8.81
288	4.16	71.28	35.31	5229449	1459000000	1.651705	0.92
289	-1.08	82.71	61.02	96529311	3222000000	3.2297828	2.64

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
290	NYSE	SNI	Scripps Networks Interactive Inc.	Consumer_Discretionary	86.46	16.04	1.38
291	NYSE	SEE	Sealed Air	Materials	42.62	21.31	1.44
292	NYSE	SRE	Sempra Energy	Utilities	103.36	19.14	3.16
293	NYSE	SHW	Sherwin-Williams	Materials	387.65	26.75	0.84
294	NYSE	SIG	Signet Jewelers	Consumer_Discretionary	49.38	6.65	2.47
295	NYSE	SPG	Simon Property Group Inc	Real_Estate	152.18	13.56	5.04
296	NYSE	SLG	SL Green Realty	Real_Estate	90.61	14.07	3.5
297	NYSE	SNA	Snap-On Inc.	Consumer_Discretionary	156.72	15.81	1.97
298	NYSE	SO	Southern Co.	Utilities	43.4	15.78	5.35
299	NYSE	LUV	Southwest Airlines	Industrials	55.63	15.89	0.86
300	NYSE	SWK	Stanley Black & Decker	Consumer_Discretionary	152.86	20.57	1.58
301	NYSE	STT	State Street Corp.	Financials	98.54	15.35	1.62
302	NYSE	SYK	Stryker Corp.	Health_Care	148.01	23.46	1.22
303	NYSE	STI	SunTrust Banks	Financials	65.8	16.25	2.32
304	NYSE	SYF	Synchrony Financial	Financials	34.98	13.35	1.6
305	NYSE	SYZ	Sysco Corp.	Consumer_Staples	57	22.98	2.46
306	NYSE	TGT	Target Corp.	Consumer_Discretionary	71.11	14.19	3.39

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
290	5.18	88.87	64.87	11328642	1351059000	4.374079	4.22
291	2.46	50.62	41.22	8001938	969700000	2.4700067	10.55
292	5.45	122.975	100.63	26163862	3763000000	3.15303	1.98
293	18.61	435.15	302.0101	37730995	2160668000	2.5276077	13.42
294	7.03	77.94	46.09	3034276	852700000	0.7564699	1.38
295	6.25	187.35	150.15	48139840	4411515000	8.754495	13.24
296	0.88	115.34	91.2	8617714	795889000	6.5820084	1.32
297	9.2	185.47	140.83	9499108	982200000	3.5114813	3.21
298	2.53	53.51	42.63	43497224	6012000000	2.5080602	1.82
299	5.82	66.985	49.76	34351212	4533000000	1.6294897	3.84
300	8.05	176.62	121.09	24496400	2264600000	1.944325	3.34
301	5.23	114.27	75.27	38059113	0	3.263072	1.95
302	2.68	170	122.01	57509097	2863000000	4.635566	5.54
303	4.48	72.06	51.96	32498948	0	3.3089445	1.38
304	2.41	40.59	26.01	28893750	0	2.1096623	1.97
305	2.08	64.27	48.85	30445321	2988725000	0.7295535	13.4
306	4.71	78.7	48.56	39816697	7105000000	0.8047394	3.45

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
307	NYSE	TEL	TE Connectivity Ltd.	Information_Technology	95.27	19.72	1.61
308	NYSE	FTI	TechnipFMC	Energy	29.1	18.77	1.71
309	NYSE	TXT	Textron Inc.	Industrials	55.54	22.13	0.14
310	NYSE	BK	The Bank of New York Mellon Corp.	Financials	53.29	14.76	1.73
311	NYSE	CLX	The Clorox Company	Consumer_Staples	127.76	23.44	2.63
312	NYSE	COO	The Cooper Companies	Health_Care	223.17	22.96	0.03
313	NYSE	HSY	The Hershey Company	Consumer_Staples	97.65	20.51	2.65
314	NYSE	MOS	The Mosaic Company	Materials	24.13	23.66	0.4
315	NYSE	TRV	The Travelers Companies Inc.	Financials	135.01	16.48	2.03
316	NYSE	DIS	The Walt Disney Company	Consumer_Discretionary	101.35	17.78	1.6
317	NYSE	TMO	Thermo Fisher Scientific	Health_Care	198.73	21.84	0.33
318	NYSE	TIF	Tiffany & Co.	Consumer_Discretionary	99.62	27	1.94
319	NYSE	TWX	Time Warner Inc.	Consumer_Discretionary	93.02	15.35	1.69
320	NYSE	TJX	TJX Companies Inc.	Consumer_Discretionary	74.36	21.01	1.64
321	NYSE	TMK	Torchmark Corp.	Financials	80.52	17.02	0.72
322	NYSE	TSS	Total System Services	Information_Technology	81.17	25.85	0.61
323	NYSE	TDG	TransDigm Group	Industrials	283	23.76	0

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
307	4.71	108.23	71.93	34983666	2797000000	2.5734365	3.6
308	0	35	24.53	14163064	540167833.4	1.561575	1.06
309	1.14	62.19	45	15254672	1454000000	1.0645695	2.57
310	3.73	58.99	44.91	56083905	0	3.3834257	1.49
311	5.33	150.4	124.09	16540418	1295000000	2.798683	21.62
312	7.52	256.39	187.02	11297958	615700000	6.8538465	3.57
313	3.66	116.49	98.851	20867272	1404123000	2.8396711	25.64
314	0.85	34.36	19.23	9726962	1165100000	1.8161958	0.94
315	7.31	150.55	113.76	38903132	0	1.33382	1.63
316	5.7	116.1	96.2	157817273	12544000000	3.9635563	3.82
317	5.6	226.44	151.69	83226586	4751300000	4.015666	3.38
318	3.55	111.44	77.93	12810515	949500000	4.516748	3.97
319	6.62	103.9	85.88	74185800	7671000000	2.3735986	2.73
320	3.46	81.46	66.44	48181451	4600216000	1.9293598	10.35
321	4.5	93.595	73.53	9614412	0	3.1079664	1.88
322	3.16	89.92	50.96	15694951	1097534000	3.175548	6.57
323	7.92	321.38	203.72	15241204	1635916000	4.268832	.

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
324	NYSE	TSN	Tyson Foods	Consumer_Staples	73.92	13.92	1.64
325	NYSE	USB	U.S. Bancorp	Financials	52.65	15.35	2.19
326	NYSE	UDR	UDR Inc	Real_Estate	32.92	17.79	3.67
327	NYSE	UA	Under Armour Class C	Consumer_Discretionary	11.95	29.15	0
328	NYSE	UNP	Union Pacific	Industrials	124.86	22.06	2.06
329	NYSE	UAL	United Continental Holdings	Industrials	63.37	8.85	0
330	NYSE	UNH	United Health Group Inc.	Health_Care	216.46	21.47	1.33
331	NYSE	UPS	United Parcel Service	Industrials	109.28	18.27	2.97
332	NYSE	URI	United Rentals, Inc.	Industrials	161.99	16.33	0
333	NYSE	UTX	United Technologies	Industrials	127.48	19.26	2.12
334	NYSE	UHS	Universal Health Services, Inc.	Health_Care	114.87	15.36	0.34
335	NYSE	UNM	Unum Group	Financials	47.87	11.51	1.82
336	NYSE	VFC	V.F. Corp.	Consumer_Discretionary	78.75	25.9	2.29
337	NYSE	VLO	Valero Energy	Energy	86.77	18.74	3.56
338	NYSE	VAR	Varian Medical Systems	Health_Care	112.82	29.93	0
339	NYSE	VTR	Ventas Inc	Real_Estate	50.92	12.21	5.97
340	NYSE	VZ	Verizon Communications	Telecomm_Services	49.04	13.08	4.63

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
324	4.79	84.65	57.2	26957527	2521000000	0.93730986	2.55
325	3.52	58.5	49.535	90940116	0	3.7773547	2.09
326	1.08	40.71	33.31	9050154	665141000	12.365829	3.27
327	0.45	21.805	10.36	5366629	399277000	1.4738787	2.5
328	13.52	143.05	101.06	101513290	10169000000	4.8605075	.
329	7.05	83.04	56.51	19363059	5929000000	0.5020496	2.09
330	10.71	250.79	156.49	218834811	17454000000	1.0903316	4.71
331	5.62	135.53	102.12	96436357	7919000000	1.4744618	64.7
332	15.72	189	100.621	14654954	2760000000	2.1782618	4.53
333	5.7	139.24	107.05	105387272	10584000000	1.7324123	3.4
334	7.14	129.74	95.26	11116075	1676204000	1.3158662	2.21
335	4.38	58.73	43.55	11256432	0	0.9984924	1.19
336	2.55	82.95	48.05	31797646	1624441000	3.7110944	7.89
337	9.24	99.95	60.69	39312309	5401000000	0.4211918	1.93
338	2.69	130.29	77.73	10692682	500600000	3.9652252	7.32
339	1.86	72.36	51.8	18865999	1935931000	7.0740495	1.76
340	7.36	54.77	42.8	208092277	45745000000	1.6452544	7.96

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
341	NYSE	V	Visa Inc.	Information_Technology	113.86	32.72	0.7
342	NYSE	VNO	Vornado Realty Trust	Real_Estate	66.18	16.22	3.74
343	NYSE	VMC	Vulcan Materials	Materials	121.47	40.9	0.78
344	NYSE	WMT	Wal-Mart Stores	Consumer_Staples	100.02	23.1	1.98
345	NYSE	WM	Waste Management Inc.	Industrials	79.12	25.36	2.08
346	NYSE	WAT	Waters Corporation	Health_Care	191.79	26.64	0
347	NYSE	WEC	Wec Energy Group Inc	Utilities	59.5	19.57	3.69
348	NYSE	WFC	Wells Fargo	Financials	55.4	13.58	2.71
349	NYSE	HCN	Welltower Inc.	Real_Estate	54.67	12.74	6.15
350	NYSE	WU	Western Union Co	Information_Technology	18.81	10.17	3.59
351	NYSE	WY	Weyerhaeuser Corp.	Real_Estate	33.6	34.29	3.71
352	NYSE	WHR	Whirlpool Corp.	Consumer_Discretionary	164.95	11.77	2.57
353	NYSE	WMB	Williams Cos.	Energy	28.56	48.41	4
354	NYSE	WYN	Wyndham Worldwide	Consumer_Discretionary	113.56	18.77	1.95
355	NYSE	XRX	Xerox Corp.	Information_Technology	29.8	8.87	3.21
356	NYSE	XL	XL Capital	Financials	41.26	-19.93	2.1
357	NYSE	XYL	Xylem Inc.	Industrials	70.24	30.94	1.17

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
341	2.8	126.88	84.88	270038723	13086000000	14.433654	9.4
342	4.33	111.72	66.0101	12778780	0	7.1491003	3.63
343	3.1	141.2	108.95	16964162	970976000	5.7576876	3.54
344	4.39	109.98	66.89	304680932	30721000000	0.82099426	3.89
345	2.66	89.73	69.55	35488487	3896000000	3.2787669	6.73
346	0.19	220.2	145.94	16064079	773932000	6.9824114	6.15
347	3.79	70.09	56.63	18890297	2736500000	2.4834197	2.1
348	4.07	66.31	49.27	281463621	0	2.8728192	1.58
349	2.81	78.17	55.29	20943679	1908253000	6.725218	1.49
350	0.51	22.21	18.39	8951609	694600000	2.22677	12.65
351	0.77	37.89	30.9504	26070298	1365000000	3.6396794	2.9
352	4.51	202.99	158.8	12177920	1842000000	0.58064795	2.57
353	-0.57	33.67	26.8188	24802396	3955000000	4.2982845	3.01
354	5.53	127.96	80.11	11993836	1232000000	2.7332082	18.91
355	0.59	37.42	26.64	7938833	1191000000	0.7877656	1.49
356	-2.24	47.27	33.77	10753424	0	0.84394187	0.97
357	1.83	76.81	46.86	12915021	722000000	2.7262094	5.31

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Q1 Part c) Combine NASDAQ and NYSE Datasets

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Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield
358	NYSE	YUM	Yum! Brands Inc	Consumer_Discretionary	76.3	27.25	1.8
359	NYSE	ZTS	Zoetis	Health_Care	71.51	32.8	0.68

Obs	EarningsperShare	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook
358	4.07	86.93	62.85	27003303	2289000000	6.3136363	212.08
359	1.65	80.13	52	35991110	1734000000	9.280896	18.09

Q1 Part e) Create the dataset SectorVolatility

Obs	Sector	Sector_Volatility
1	Materials	Low
2	Information Technology	High
3	Consumer Discretionary	High
4	Health Care	Moderate
5	Consumer Staples	Moderate
6	Telecomm Services	High
7	Financials	High
8	Industrials	Low
9	Energy	High
10	Utilities	Moderate
11	Real Estate	Low

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
1	NASDAQ	AMZN	Amazon.com Inc	Consumer Discretionary	1350.5	296.16	0	6.16
2	NASDAQ	CHTR	Charter Communications	Consumer Staples	348.65	162.92	0	34.08
3	NASDAQ	CMCSA	Comcast Corp.	Energy	38.19	18.54	1.89	4.74
4	NASDAQ	DLTR	Dollar Tree	Financials	101.58	26.66	0	3.77
5	NASDAQ	MAR	Marriott Int'l.	Health Care	133.88	32.73	0.95	2.67
6	NASDAQ	ORLY	O'Reilly Automotive	Industrials	252.22	21.91	0	10.73
7	NASDAQ	ROST	Ross Stores	Information Technology	75.06	26.52	0.82	2.83
8	NASDAQ	SBUX	Starbucks Corp.	Materials	53.77	25.98	2.2	1.97
9	NASDAQ	FOXA	Twenty-First Century Fox C	Real Estate	34.56	17.81	1	1.59
10	NASDAQ	FOX	Twenty-First Century Fox C	Telecomm Services	34.09	17.57	1.01	1.59
11	NYSE	CMG	Chipotle Mexican Grill	Utilities	266.01	45.86	0	0.8
12	NYSE	DHI	D. R. Horton	Consumer_Discretionary	44.55	16.32	1.08	2.73
13	NYSE	DRI	Darden Restaurants	Consumer_Discretionary	91.33	22.72	2.65	3.81
14	NYSE	DG	Dollar General	Consumer_Discretionary	95.1	21.18	1.06	4.43
15	NYSE	FL	Foot Locker Inc	Consumer_Discretionary	45.88	9.5	2.58	4.91
16	NYSE	F	Ford Motor	Consumer_Discretionary	10.43	5.89	6.78	1.9
17	NYSE	GPS	Gap Inc.	Consumer_Discretionary	31.17	15.35	2.82	1.69

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
1	1498	812.5	685873375	16132000000	3.927053	24.28	High
2	408.83	308.3	86708878	14694000000	2.1208634	2.27	Moderate
3	44	34.78	186476997	28675000000	2.1797748	2.65	High
4	116.65	65.63	25151198	2430300000	1.6097589	4.08	High
5	149.21	85.3725	50910130	2620000000	2.9997249	11.02	Moderate
6	279.23	169.43	21433782	1965187000	3.1934319	34.12	Low
7	85.66	52.85	29803566	2247009000	2.9734495	10.28	High
8	64.87	52.58	76548976	7361500000	3.4392443	13.36	Low
9	39.135	24.81	44027095	5280000000	2.1080317	4.11	Low
10	38.56	24.3	66135314	5280000000	3.1654842	4.04	High
11	499	263	7685284	401293000	2.5523853	6.11	Moderate
12	53.32	29.3716	17390874	1691000000	1.1931022	2.17	
13	100.11	71.7	11745595	997600000	1.5278828	5.89	
14	105.82	65.97	26580645	2457604000	1.5283886	4.53	
15	77.86	28.42	5819080	957000000	1.0362948	.	
16	13.48	10.19	42414328	9281000000	0.27054095	1.26	
17	35.68	21.02	12684518	1959000000	1.1289738	3.93	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
18	NYSE	GM	General Motors	Consumer_Discretionary	40.75	6.58	3.59	6
19	NYSE	GPC	Genuine Parts	Consumer_Discretionary	96.31	21.17	2.72	4.6
20	NYSE	HBI	Hanesbrands Inc	Consumer_Discretionary	19.57	10.04	2.73	1.41
21	NYSE	HOG	Harley-Davidson	Consumer_Discretionary	47.54	13.7	3.02	2.98
22	NYSE	HLT	Hilton Worldwide Holdings Inc	Consumer_Discretionary	78.66	36.42	0.73	1.05
23	NYSE	HD	Home Depot	Consumer_Discretionary	181.22	28.1	1.86	6.46
24	NYSE	IPG	Interpublic Group	Consumer_Discretionary	21.34	15.46	3.38	1.49
25	NYSE	KSS	Kohl's Corp.	Consumer_Discretionary	60.34	16.01	3.5	3.12
26	NYSE	LB	L Brands Inc.	Consumer_Discretionary	47.77	12.77	4.89	3.98
27	NYSE	LEG	Leggett & Platt	Consumer_Discretionary	43.99	17.88	3.15	2.76
28	NYSE	LEN	Lennar Corp.	Consumer_Discretionary	59.11	15.35	0.26	3.38
29	NYSE	LOW	Lowe's Cos.	Consumer_Discretionary	95.01	23.87	1.64	3.46
30	NYSE	M	Macy's Inc.	Consumer_Discretionary	24	7.67	6.1	1.98
31	NYSE	MCD	McDonald's Corp.	Consumer_Discretionary	158.97	23.83	2.44	6.36
32	NYSE	MGM	MGM Resorts International	Consumer_Discretionary	33.5	29.65	1.27	1.92
33	NYSE	KORS	Michael Kors Holdings	Consumer_Discretionary	60.03	14.29	0	3.31
34	NYSE	MHK	Mohawk Industries	Consumer_Discretionary	256.57	19.08	0	12.48

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
18	46.76	31.92	61536606	23541000000	0.5633218	1.33	
19	107.75	79.86	14554322	1201517000	1.212236	4.33	
20	25.73	18.9	8006269	926153000	1.6339768	6.17	
21	63.4	44.52	8158950	1058817000	1.66195	4.31	
22	88.11	55.79	26242416	2815000000	3.7628453	17.67	
23	207.605	136.82	223378633	16513000000	2.8964398	84.08	
24	25.71	18.3	8277363	1074900000	1.4712903	4.01	
25	69.14	35.16	10570861	2286000000	0.8557757	2.04	
26	63.1	35	13862043	2329000000	1.7060977	1403.38	
27	54.97	42	6034600	447000000	2.0302901	4.89	
28	72.17	43.647053	14615967	1405319000	1.1468264	1.76	
29	108.98	70.76	82909679	7858000000	1.5653384	14.1	
30	33.73	17.405	7541063	2446000000	0.45503208	1.69	
31	178.7	124.36	132101624	10515400000	5.770237	146.07	
32	38.41	25.15	19633674	2680385000	2.2276719	3.09	
33	69.95	32.38	10053919	456600000	3.1455927	5.4	
34	286.85	209.9	19897356	1750393000	2.7977824	2.88	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
35	NYSE	NWL	Newell Brands	Consumer_Discretionary	27.91	9.72	3.12	1.17
36	NYSE	NKE	Nike	Consumer_Discretionary	62.49	24.9	1.22	2.51
37	NYSE	JWN	Nordstrom	Consumer_Discretionary	47.23	15.04	3	2.02
38	NYSE	OMC	Omnicom Group	Consumer_Discretionary	75.91	15.27	3.18	4.79
39	NYSE	RL	Polo Ralph Lauren Corp.	Consumer_Discretionary	101.32	17.74	1.86	-1.19
40	NYSE	PHM	Pulte Homes Inc.	Consumer_Discretionary	28.67	12.86	1.2	1.44
41	NYSE	PVH	PVH Corp.	Consumer_Discretionary	142.68	20.98	0.1	6.77
42	NYSE	RCL	Royal Caribbean Cruises Ltd	Consumer_Discretionary	122.45	16.26	1.87	7.53
43	NYSE	SNI	Scripps Networks Interactive Inc.	Consumer_Discretionary	86.46	16.04	1.38	5.18
44	NYSE	SIG	Signet Jewelers	Consumer_Discretionary	49.38	6.65	2.47	7.03
45	NYSE	SNA	Snap-On Inc.	Consumer_Discretionary	156.72	15.81	1.97	9.2
46	NYSE	SWK	Stanley Black & Decker	Consumer_Discretionary	152.86	20.57	1.58	8.05
47	NYSE	TGT	Target Corp.	Consumer_Discretionary	71.11	14.19	3.39	4.71
48	NYSE	DIS	The Walt Disney Company	Consumer_Discretionary	101.35	17.78	1.6	5.7
49	NYSE	TIF	Tiffany & Co.	Consumer_Discretionary	99.62	27	1.94	3.55
50	NYSE	TWX	Time Warner Inc.	Consumer_Discretionary	93.02	15.35	1.69	6.62
51	NYSE	TJX	TJX Companies Inc.	Consumer_Discretionary	74.36	21.01	1.64	3.46

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
35	55.08	23.85	14438346	2021400000	1.2810479	1.01	
36	68.83	50.35	106776114	5162000000	3.0549932	8.91	
37	53	37.7924	8212510	1448000000	0.74603415	9.1	
38	86.71	65.32	17377552	2366000000	1.5327156	6.66	
39	119.33	66.06	8753430	506100000	1.3948758	2.44	
40	35.21	21.06	8792572	992811000	1.0341544	1.99	
41	157.96	84.53	11478626	1057500000	1.7617522	2.14	
42	135.65	93.4	27418147	2876309000	3.1026611	2.56	
43	88.87	64.87	11328642	1351059000	4.374079	4.22	
44	77.94	46.09	3034276	852700000	0.7564699	1.38	
45	185.47	140.83	9499108	982200000	3.5114813	3.21	
46	176.62	121.09	24496400	2264600000	1.944325	3.34	
47	78.7	48.56	39816697	7105000000	0.8047394	3.45	
48	116.1	96.2	157817273	12544000000	3.9635563	3.82	
49	111.44	77.93	12810515	949500000	4.516748	3.97	
50	103.9	85.88	74185800	7671000000	2.3735986	2.73	
51	81.46	66.44	48181451	4600216000	1.9293598	10.35	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
52	NYSE	UA	Under Armour Class C	Consumer_Discretionary	11.95	29.15	0	0.45
53	NYSE	VFC	V.F. Corp.	Consumer_Discretionary	78.75	25.9	2.29	2.55
54	NYSE	WHR	Whirlpool Corp.	Consumer_Discretionary	164.95	11.77	2.57	4.51
55	NYSE	WYN	Wyndham Worldwide	Consumer_Discretionary	113.56	18.77	1.95	5.53
56	NYSE	YUM	Yum! Brands Inc	Consumer_Discretionary	76.3	27.25	1.8	4.07
57	NASDAQ	COST	Costco Wholesale Corp.	Consumer_Staples	178.61	30.69	1.09	6.09
58	NASDAQ	KHC	Kraft Heinz Co	Consumer_Staples	71.58	20.11	3.4	2.81
59	NASDAQ	MDLZ	Mondelez International	Consumer_Staples	42.68	19.85	2	1.91
60	NASDAQ	MNST	Monster Beverage	Consumer_Staples	61.99	42.17	0	1.19
61	NASDAQ	PEP	PepsiCo Inc.	Consumer_Staples	110.15	21.51	2.84	4.36
62	NASDAQ	WBA	Walgreens Boots Alliance	Consumer_Staples	68.22	13.38	2.24	3.78
63	NYSE	CHD	Church & Dwight	Consumer_Staples	47.38	24.42	1.84	2.92
64	NYSE	KO	Coca-Cola Company (The)	Consumer_Staples	43.1	22.8	3.32	1.49
65	NYSE	CL	Colgate-Palmolive	Consumer_Staples	68.95	24.02	2.28	2.28
66	NYSE	CAG	Conagra Brands	Consumer_Staples	35.49	18.2	2.37	1.46
67	NYSE	STZ	Constellation Brands	Consumer_Staples	208.73	30.92	0.97	8.71
68	NYSE	COTY	Coty, Inc	Consumer_Staples	19.96	24.64	2.86	-0.63

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
52	21.805	10.36	5366629	399277000	1.4738787	2.5	
53	82.95	48.05	31797646	1624441000	3.7110944	7.89	
54	202.99	158.8	12177920	1842000000	0.58064795	2.57	
55	127.96	80.11	11993836	1232000000	2.7332082	18.91	
56	86.93	62.85	27003303	2289000000	6.3136363	212.08	
57	199.88	150	80439805	5679000000	0.61203885	7.24	
58	97.77	72.05	89618309	7832000000	4.6780853	1.54	
59	47.23	39.19	65827818	4355000000	2.5708609	2.52	
60	70.215	41.02	36403831	1229478000	14.152587	9.56	
61	122.51	104.77	161413271	12843000000	3.6705062	.	
62	88	63.82	70862542	7083000000	0.5904388	3.06	
63	54.1799	43.21	11838963	868000000	3.1682448	6.28	
64	48.615	40.22	189855336	8589000000	6.822138	8.65	
65	77.91	66.26	61616643	4064000000	4.000737	236.42	
66	41.68	32.16	14379718	1281200000	1.8294994	3.86	
67	229.5	152.01	41697453	3033300000	5.145596	5.14	
68	21.175	14.24	13101113	211400000	2.0061796	1.37	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
69	NYSE	CVS	CVS Health	Consumer_Staples	70.55	12.36	2.69	4.91
70	NYSE	DPS	Dr Pepper Snapple Group	Consumer_Staples	116.93	26.57	1.97	4.54
71	NYSE	EL	Estee Lauder Cos.	Consumer_Staples	131.46	37.78	1.13	3.35
72	NYSE	GIS	General Mills	Consumer_Staples	53.99	17.53	3.59	2.77
73	NYSE	HRL	Hormel Foods Corp.	Consumer_Staples	32.21	20.39	2.29	1.57
74	NYSE	SJM	JM Smucker	Consumer_Staples	118.37	15.35	2.6	5.1
75	NYSE	K	Kellogg Co.	Consumer_Staples	65.98	16.5	3.36	1.95
76	NYSE	KMB	Kimberly-Clark	Consumer_Staples	111.69	17.93	3.56	6.41
77	NYSE	KR	Kroger Co.	Consumer_Staples	27.57	13.07	1.73	2.05
78	NYSE	MKC	McCormick & Co.	Consumer_Staples	101.36	23.91	2.03	3.73
79	NYSE	TAP	Molson Coors Brewing Company	Consumer_Staples	74.51	17.66	2.15	9.27
80	NYSE	PM	Philip Morris International	Consumer_Staples	100.39	22.36	4.33	4.48
81	NYSE	PG	Procter & Gamble	Consumer_Staples	80.22	20.46	3.37	5.6
82	NYSE	SYN	Sysco Corp.	Consumer_Staples	57	22.98	2.46	2.08
83	NYSE	CLX	The Clorox Company	Consumer_Staples	127.76	23.44	2.63	5.33
84	NYSE	HSY	The Hershey Company	Consumer_Staples	97.65	20.51	2.65	3.66
85	NYSE	TSN	Tyson Foods	Consumer_Staples	73.92	13.92	1.64	4.79

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
69	84	66.45	75323142	11704000000	0.549852	2.13	
70	126.65	83.23	21209784	1507000000	4.2149186	9.99	
71	138.74	81.69	49543264	2478000000	3.9522583	10.82	
72	63.73	49.65	31098243	3107600000	2.0389178	7.26	
73	38	29.75	17338613	1422305000	2.5174792	3.49	
74	143.68	99.565	13612395	1411300000	2.496677	1.88	
75	76.69	58.76	22182795	1827000000	2.3173764	11.5	
76	136.21	109.67	39449596	4033000000	2.1947837	151.66	
77	34.75	19.69	25471356	5342000000	0.27961263	4.02	
78	109.67	90.25	13459353	815700000	2.7788277	5.2	
79	102.14	75.79	12396862	4708400000	1.2371694	1.34	
80	123.55	96.66	153580672	11802000000	2.7574685	1318.7	
81	94.67	80.1	206318943	17249000000	3.1595004	3.85	
82	64.27	48.85	30445321	2988725000	0.7295535	13.4	
83	150.4	124.09	16540418	1295000000	2.798683	21.62	
84	116.49	98.851	20867272	1404123000	2.8396711	25.64	
85	84.65	57.2	26957527	2521000000	0.93730986	2.55	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
86	NYSE	WMT	Wal-Mart Stores	Consumer_Staples	100.02	23.1	1.98	4.39
87	NYSE	CHK	Chesapeake Energy	Energy	2.82	4.7	0	-6.44
88	NYSE	CVX	Chevron Corp.	Energy	112.3	27.52	3.89	4.85
89	NYSE	XEC	Cimarex Energy	Energy	100.19	26.37	0.3	-4.64
90	NYSE	CXO	Concho Resources	Energy	140.09	84.39	0	-11.04
91	NYSE	COP	ConocoPhillips	Energy	53.24	72.93	2.05	-0.65
92	NYSE	DVN	Devon Energy Corp.	Energy	34.94	23.93	0.65	-6.89
93	NYSE	EOG	EOG Resources	Energy	101.04	246.44	0.63	-1.98
94	NYSE	EQT	EQT Corporation	Energy	46.25	53.16	0.25	-2.69
95	NYSE	XOM	Exxon Mobil Corp.	Energy	76.07	21.37	4	1.88
96	NYSE	HAL	Halliburton Co.	Energy	47.41	38.86	1.45	-0.53
97	NYSE	HP	Helmerich & Payne	Energy	64.87	-54.51	4.15	-1.2
98	NYSE	HES	Hess Corporation	Energy	43	-9.33	2.27	-19.94
99	NYSE	KMI	Kinder Morgan	Energy	16.8	25.07	2.89	0.01
100	NYSE	MRO	Marathon Oil Corp.	Energy	15.68	-32	1.22	-2.65
101	NYSE	MPC	Marathon Petroleum	Energy	62.79	16.06	2.83	6.85
102	NYSE	NOV	National Oilwell Varco Inc.	Energy	32.64	-77.71	0.59	-6.4

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
86	109.98	66.89	304680932	30721000000	0.82099426	3.89	
87	6.59	2.8	2626102	1470000000	0.40765184	1.84	
88	133.88	102.55	218978820	28877000000	1.6489863	1.71	
89	136.31	89.49	10089082	1061056000	7.556446	4.28	
90	162.91	106.73	22021882	2151190000	12.271951	2.61	
91	61.315	42.265	65482462	5328000000	2.0764177	2.16	
92	47.25	28.7947	19317380	3723000000	2.0660408	2.85	
93	119	81.99	61164030	3692749000	8.02302	4.55	
94	67.84	47.13	12638829	1518305000	6.4987307	2.15	
95	89.3	76.05	326148660	39052000000	1.7701944	1.85	
96	57.86	38.181	43356557	2910000000	2.1424224	4.74	
97	75.02	42.16	7345244	483673000	3.7385862	1.62	
98	55.48	37.25	14016130	-819000000	3.780475	1.08	
99	22.75	16.56	38612712	5981000000	2.823936	1.07	
100	19.52	10.55	13875005	2266000000	4.6578755	.	
101	73.53	47.39	31633740	5978000000	0.42713487	2.43	
102	41.895	29.9	12940097	353000000	2.5209634	0.91	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
103	NYSE	NFX	Newfield Exploration Co	Energy	26.38	13.12	0	-6.5
104	NYSE	NBL	Noble Energy Inc	Energy	25.43	105.96	1.48	-2.32
105	NYSE	OXY	Occidental Petroleum	Energy	68.47	195.63	4.41	-0.75
106	NYSE	OKE	ONEOK	Energy	54.4	34	5.44	1.66
107	NYSE	PSX	Phillips 66	Energy	92.44	21.11	2.93	9.93
108	NYSE	PXD	Pioneer Natural Resources	Energy	169.16	118.29	0.18	-3.39
109	NYSE	RRC	Range Resources Corp.	Energy	12.82	35.61	0.61	-2.79
110	NYSE	SLB	Schlumberger Ltd.	Energy	67.4	44.93	2.87	-1.08
111	NYSE	FTI	TechnipFMC	Energy	29.1	18.77	1.71	0
112	NYSE	VLO	Valero Energy	Energy	86.77	18.74	3.56	9.24
113	NYSE	WMB	Williams Cos.	Energy	28.56	48.41	4	-0.57
114	NYSE	CB	Chubb Limited	Financials	140.39	17.5	1.93	8.2
115	NYSE	C	Citigroup Inc.	Financials	71.87	13.48	1.71	-3.1
116	NYSE	CFG	Citizens Financial Group	Financials	42.19	16.04	1.96	3.27
117	NYSE	CMA	Comerica Inc.	Financials	89.18	18.89	1.28	4.13
118	NYSE	DFS	Discover Financial Services	Financials	72.4	12.13	1.83	5.41
119	NYSE	RE	Everest Re Group Ltd.	Financials	241.06	27.24	2.11	23.71

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
103	43.74	24.41	5695123	896000000	4.703259	4.51	
104	39.6	22.985	13177325	-518000000	4.6976447	1.44	
105	78.09	57.2	53467692	5205000000	6.044895	.	
106	61.36	47.14	21988472	1851783000	2.6159565	4.03	
107	107.47	75.135	47996220	5311000000	0.47499472	2.12	
108	199.83	125.46	29983120	1717000000	6.7890477	2.76	
109	34.09	12.7	3255588	820095000	1.9624339	0.59	
110	82.71	61.02	96529311	3222000000	3.2297828	2.64	
111	35	24.53	14163064	540167833.4	1.561575	1.06	
112	99.95	60.69	39312309	5401000000	0.4211918	1.93	
113	33.67	26.8188	24802396	3955000000	4.2982845	3.01	
114	157.5	130.17	68424671	0	2.0985637	1.35	
115	80.7	56.14	192709302	0	2.1857586	0.9	
116	48.23	31.51	22008051	0	3.3917346	1.08	
117	98.18	64.04	16274969	0	4.905472	1.96	
118	81.93	57.5	27433540	0	2.3610325	2.52	
119	277.17	208.81	10131893	0	2.0991988	1.16	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
120	NYSE	BEN	Franklin Resources	Financials	38	12.67	2.33	3
121	NYSE	GS	Goldman Sachs Group	Financials	246.35	12.44	1.17	8.61
122	NYSE	HIG	Hartford Financial Svc.Gp.	Financials	53.34	14.34	1.79	2.27
123	NYSE	ICE	Intercontinental Exchange	Financials	67	22.95	5.43	2.37
124	NYSE	IVZ	Invesco Ltd.	Financials	31.92	11.87	3.47	2.74
125	NYSE	JPM	JPMorgan Chase & Co.	Financials	107.88	15.43	1.98	6.3
126	NYSE	KEY	KeyCorp	Financials	20.08	14.66	1.99	1.12
127	NYSE	LUK	Leucadia National Corp.	Financials	23.86	15.39	1.6	0.33
128	NYSE	LNC	Lincoln National	Financials	73.86	9.49	1.68	9.24
129	NYSE	L	Loews Corp.	Financials	46.05	15.99	4.51	1.93
130	NYSE	MTB	M&T Bank Corp.	Financials	178.35	18.91	1.62	8.69
131	NYSE	MMC	Marsh & McLennan	Financials	79.31	20.23	1.83	2.87
132	NYSE	MET	MetLife Inc.	Financials	44.28	8.52	3.46	0.63
133	NYSE	MCO	Moody's Corp	Financials	152.14	26.55	1.11	1.35
134	NYSE	MS	Morgan Stanley	Financials	51.79	14.23	1.83	3.09
135	NYSE	PNC	PNC Financial Services	Financials	149.38	17.55	1.94	10.4
136	NYSE	PFG	Principal Financial Group	Financials	60.38	11.96	3.19	4.5

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
120	47.65	37.01	21759188	2711300000	3.399101	1.83	
121	273.79	209.62	96978500	0	2.309415	1.25	
122	59.2	46.35	19926306	0	1.3939538	1.15	
123	76.1378	56.8	41373051	3103000000	9.619987	2.62	
124	38.43	29.36	13620848	1606200000	2.6513786	1.62	
125	117.3529	81.635	386613611	0	3.3714993	1.6	
126	22.22	16.28	22589745	0	3.270451	1.55	
127	28.3	22.23	8910389	2201336000	1.0410156	0.84	
128	86.68	61.45	17123031	0	1.201944	1.04	
129	53.59	45.01	16111167	0	1.5809761	0.85	
130	193.85	141.12	27840827	0	4.6277885	1.79	
131	86.54	69.33	41819440	3236000000	2.9848945	5.85	
132	56.58	44.58	48679364	0	1.0496864	0.85	
133	167.23	106.48	30189978	1238000000	9.932974	73.84	
134	58.05	40.06	97535400	0	2.2258842	1.33	
135	160.07	115.25	73315000	0	4.04653	1.53	
136	75.585	58.9401	18457200	0	1.7167546	1.53	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
137	NYSE	PGR	Progressive Corp.	Financials	51.07	20.76	2.11	2.73
138	NYSE	PRU	Prudential Financial	Financials	103.38	9.99	2.7	9.73
139	NYSE	RJF	Raymond James Financial Inc.	Financials	86.06	16.94	1.1	4.12
140	NYSE	RF	Regions Financial Corp.	Financials	17.9	17.9	1.9	1
141	NYSE	STT	State Street Corp.	Financials	98.54	15.35	1.62	5.23
142	NYSE	STI	SunTrust Banks	Financials	65.8	16.25	2.32	4.48
143	NYSE	SYF	Synchrony Financial	Financials	34.98	13.35	1.6	2.41
144	NYSE	BK	The Bank of New York Mellon Corp.	Financials	53.29	14.76	1.73	3.73
145	NYSE	TRV	The Travelers Companies Inc.	Financials	135.01	16.48	2.03	7.31
146	NYSE	TMK	Torchmark Corp.	Financials	80.52	17.02	0.72	4.5
147	NYSE	USB	U.S. Bancorp	Financials	52.65	15.35	2.19	3.52
148	NYSE	UNM	Unum Group	Financials	47.87	11.51	1.82	4.38
149	NYSE	WFC	Wells Fargo	Financials	55.4	13.58	2.71	4.07
150	NYSE	XL	XL Capital	Financials	41.26	-19.93	2.1	-2.24
151	NASDAQ	ALGN	Align Technology	Health_Care	220.71	56.59	.	2.84
152	NASDAQ	AMGN	Amgen Inc	Health_Care	173.12	13.76	2.98	2.57
153	NASDAQ	BIIB	Biogen Inc.	Health_Care	311.79	14.3	0	11.94

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
137	58.25	36.84	31062780	0	1.1458876	3.25	
138	127.14	97.88	47136080	0	1.083727	0.93	
139	99.1	71.35	13216272	0	1.9734555	2.34	
140	19.9	13	21500640	0	3.474771	1.32	
141	114.27	75.27	38059113	0	3.263072	1.95	
142	72.06	51.96	32498948	0	3.3089445	1.38	
143	40.59	26.01	28893750	0	2.1096623	1.97	
144	58.99	44.91	56083905	0	3.3834257	1.49	
145	150.55	113.76	38903132	0	1.33382	1.63	
146	93.595	73.53	9614412	0	3.1079664	1.88	
147	58.5	49.535	90940116	0	3.7773547	2.09	
148	58.73	43.55	11256432	0	0.9984924	1.19	
149	66.31	49.27	281463621	0	2.8728192	1.58	
150	47.27	33.77	10753424	0	0.84394187	0.97	
151	287.32	92.61	18788041	380326000	13.138819	16.44	
152	201.23	152.16	128133340	11945000000	5.58192	3.91	
153	370.57	244.28	69157726	6511400000	5.737439	5.51	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
154	NASDAQ	CERN	Cerner	Health_Care	61.22	27.09	0	1.84
155	NASDAQ	GILD	Gilead Sciences	Health_Care	78.22	8.16	2.75	9.95
156	NASDAQ	IDXX	IDEXX Laboratories	Health_Care	169.28	53.57	0	2.94
157	NASDAQ	ILMN	Illumina Inc	Health_Care	209.54	52.25	0	4.92
158	NASDAQ	INCY	Incyte	Health_Care	83.92	-119.89	0	0.54
159	NASDAQ	ISRG	Intuitive Surgical Inc.	Health_Care	381.87	48.58	0	5.67
160	NASDAQ	REGN	Regeneron	Health_Care	322.62	27.93	0	7.74
161	NASDAQ	VRTX	Vertex Pharmaceuticals Inc	Health_Care	151.6	252.67	0	1.04
162	NYSE	CI	CIGNA Corp.	Health_Care	189.27	18.11	0.02	7.2
163	NYSE	DHR	Danaher Corp.	Health_Care	92.16	22.87	0.59	3.53
164	NYSE	DVA	DaVita Inc.	Health_Care	71.91	20.55	0	4.3
165	NYSE	EW	Edwards Lifesciences	Health_Care	123.78	32.57	0	2.88
166	NYSE	EVHC	Envision Healthcare	Health_Care	35.34	10.91	0	-0.48
167	NYSE	HCA	HCA Holdings	Health_Care	95.97	14.07	1.42	5.94
168	NYSE	HUM	Humana Inc.	Health_Care	262.37	22.39	0.6	4.06
169	NYSE	JNJ	Johnson & Johnson	Health_Care	126.36	17.31	2.56	0.39
170	NYSE	LH	Laboratory Corp. of America Holding	Health_Care	165.46	17.79	0	7.02

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
154	73.86	51.2617	21101698	1523440000	5.5560412	4.62	
155	89.54	63.759	108106822	17590000000	5.2087464	4.12	
156	198.73	140.63	15422885	478307000	7.97525	196.21	
157	248.97	158.0203	32295200	1192000000	11.713953	10.89	
158	153.15	84.21	18220961	-81686000	17.02699	10.25	
159	452	233.10643	44866621	1153700000	14.655261	9.48	
160	543.5518	319.5	35950369	2043160000	8.48541	5.89	
161	174.955	84.39	39369386	97562000	16.185404	21.91	
162	227.13	141.93	47680910	0	1.550762	3.39	
163	104.82	78.97	66351150	4339800000	3.688278	2.65	
164	80.71	52.51	13685178	2252294000	1.1451397	2.79	
165	138.48	89.2	27447100	1156700000	7.8283277	8.48	
166	73	23.77	4212729	827200000	1.227099	0.64	
167	106.84	71.18	34449053	8202000000	0.7251921	.	
168	293.35	189.01	36973617	0	0.9256895	3.33	
169	148.32	113.15	353062465	22430000000	4.6326222	4.74	
170	181.715	130.292	17271388	1861200000	2.2459624	2.71	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
171	NYSE	LLY	Lilly (Eli) & Co.	Health_Care	74.21	17.34	2.93	-0.2
172	NYSE	MCK	McKesson Corp.	Health_Care	150.23	11.68	0.89	22.74
173	NYSE	MDT	Medtronic plc	Health_Care	78.38	17.04	2.26	2.89
174	NYSE	MRK	Merck & Co.	Health_Care	54.73	13.75	3.44	1.4
175	NYSE	MTD	Mettler Toledo	Health_Care	601	35.56	0	14.24
176	NYSE	PKI	PerkinElmer	Health_Care	72.06	24.68	0.37	2.64
177	NYSE	PRGO	Perrigo	Health_Care	84.44	.	0.73	-28.01
178	NYSE	PFE	Pfizer Inc.	Health_Care	33.63	12.69	3.89	3.51
179	NYSE	DGX	Quest Diagnostics	Health_Care	96.42	17.07	1.99	5.5
180	NYSE	RMD	ResMed	Health_Care	89.26	31.54	1.51	2.41
181	NYSE	SYK	Stryker Corp.	Health_Care	148.01	23.46	1.22	2.68
182	NYSE	COO	The Cooper Companies	Health_Care	223.17	22.96	0.03	7.52
183	NYSE	TMO	Thermo Fisher Scientific	Health_Care	198.73	21.84	0.33	5.6
184	NYSE	UNH	United Health Group Inc.	Health_Care	216.46	21.47	1.33	10.71
185	NYSE	UHS	Universal Health Services, Inc.	Health_Care	114.87	15.36	0.34	7.14
186	NYSE	VAR	Varian Medical Systems	Health_Care	112.82	29.93	0	2.69
187	NYSE	WAT	Waters Corporation	Health_Care	191.79	26.64	0	0.19

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
171	89.09	75.71	84475986	3459800000	3.754678	5.73	
172	178.86	133.82	31534840	7232000000	0.15318617	2.68	
173	89.72	75.44	110107062	9204000000	4.944542	2.14	
174	66.8	53.63	152241530	8715000000	5.0893345	4.02	
175	697.26	459.34	16420774	666706000	8.372307	31.69	
176	84.49	52.63	8351767	445658000	3.7116463	3.25	
177	95.93	63.68	12326380	0	3.3850067	2.03	
178	39.43	31.67	208505542	20569000000	4.0020885	3.4	
179	112.965	90.1	13578300	1453000000	1.7709883	2.82	
180	104.78	67.04	13233623	636942000	6.1640687	6.61	
181	170	122.01	57509097	2863000000	4.635566	5.54	
182	256.39	187.02	11297958	615700000	6.8538465	3.57	
183	226.44	151.69	83226586	4751300000	4.015666	3.38	
184	250.79	156.49	218834811	17454000000	1.0903316	4.71	
185	129.74	95.26	11116075	1676204000	1.3158662	2.21	
186	130.29	77.73	10692682	500600000	3.9652252	7.32	
187	220.2	145.94	16064079	773932000	6.9824114	6.15	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
188	NYSE	ZTS	Zoetis	Health_Care	71.51	32.8	0.68	1.65
189	NASDAQ	CTAS	Cintas Corporation	Industrials	149.32	32.75	1.03	4.38
190	NASDAQ	CSX	CSX Corp.	Industrials	50.47	21.94	1.51	6.07
191	NASDAQ	FAST	Fastenal Co	Industrials	52.15	27.02	2.78	2.01
192	NASDAQ	HON	Honeywell Int'l Inc.	Industrials	146.02	20.68	1.97	2.08
193	NASDAQ	PCAR	PACCAR Inc.	Industrials	66.98	15.72	1.46	4.75
194	NASDAQ	VRSK	Verisk Analytics	Industrials	92.28	28.84	0	3.45
195	NYSE	CMI	Cummins Inc.	Industrials	165.73	16.83	2.5	8.23
196	NYSE	DE	Deere & Co.	Industrials	153.66	23.14	1.49	6.64
197	NYSE	DAL	Delta Air Lines Inc.	Industrials	51.23	10.37	2.27	4.94
198	NYSE	DOV	Dover Corp.	Industrials	96.2	23.87	1.88	5.15
199	NYSE	ETN	Eaton Corporation	Industrials	79.41	17.08	2.94	6.68
200	NYSE	EMR	Emerson Electric Company	Industrials	66.4	25.74	2.81	2.35
201	NYSE	EFX	Equifax Inc.	Industrials	114	19.03	1.33	4.04
202	NYSE	FDX	FedEx Corporation	Industrials	239.27	19.45	0.8	11.07
203	NYSE	FLS	Flowserve Corporation	Industrials	40.82	26.17	1.83	1.12
204	NYSE	FLR	Fluor Corp.	Industrials	55.31	19.9	1.47	1.99

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
188	80.13	52	35991110	1734000000	9.280896	18.09	
189	169.96	113.79	16676146	1097295000	2.7614057	6.53	
190	60.04	45.41	47340512	5003000000	4.216355	4.27	
191	57.815	39.79	15311373	1009600000	3.472977	7.39	
192	165.13	119.31	114422169	8333000000	2.8267899	5.71	
193	79.69	61.93	24152103	3619200000	1.28693	3.07	
194	100.54	75.6	15594677	1011200000	9.935474	9.34	
195	194.18	143.8301	28669231	2924000000	1.9406168	3.89	
196	171.96	106.72	52186629	4053300000	2.3746448	5.31	
197	60.79	43.81	38393604	8348000000	0.91792434	2.67	
198	109.06	75.51	15566646	1513291000	1.986176	3.59	
199	89.85	69.45	35961772	4253000000	1.8161736	2.17	
200	74.45	56.77	44040298	2542000000	3.6707752	5.01	
201	147.02	90.72	14121335	1141200000	5.6338058	4.59	
202	274.66	182.89	67280479	8062000000	1.0751684	3.9	
203	51.92	37.51	5427885	463066000	2.0803037	3.15	
204	62.09	37.0351	7978485	709756000	0.5516402	2.4	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
205	NYSE	FBHS	Fortune Brands Home & Security	Industrials	62.44	20.27	1.26	3.04
206	NYSE	GD	General Dynamics	Industrials	206.05	20.71	1.56	9.55
207	NYSE	GE	General Electric	Industrials	14.45	13.76	3.15	-0.72
208	NYSE	GWV	Grainger (W.W.) Inc.	Industrials	258.6	22.57	1.97	10.02
209	NYSE	HII	Huntington Ingalls Industries	Industrials	225.37	18.75	1.23	12.15
210	NYSE	ITW	Illinois Tool Works	Industrials	156.15	23.62	1.91	4.86
211	NYSE	IR	Ingersoll-Rand PLC	Industrials	87.6	19.38	1.97	5.07
212	NYSE	JEC	Jacobs Engineering Group	Industrials	62.82	19.45	0.91	2.43
213	NYSE	JCI	Johnson Controls International	Industrials	36.55	14	2.77	1.71
214	NYSE	KSU	Kansas City Southern	Industrials	103.53	19.8	1.34	9.16
215	NYSE	LLL	L-3 Communications Holdings	Industrials	198.79	23.14	1.44	8.51
216	NYSE	LMT	Lockheed Martin Corp.	Industrials	334.3	24.28	2.32	6.83
217	NYSE	MAS	Masco Corp.	Industrials	40.7	22.12	0.98	1.47
218	NYSE	NLSN	Nielsen Holdings	Industrials	33.9	18.73	3.62	1.39
219	NYSE	NSC	Norfolk Southern Corp.	Industrials	136.89	20.65	2.02	18.73
220	NYSE	NOC	Northrop Grumman Corp.	Industrials	324.01	24.4	1.3	11.47
221	NYSE	PH	Parker-Hannifin	Industrials	174.51	21.6	1.44	7.24

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
205	73.62	55.25	9624169	814500000	1.8434572	3.76	
206	229.54	181.94	64180391	4618000000	2.0481362	5.45	
207	30.59	14.71	132249296	-206000000	1.0887611	1.7	
208	298.145	155	14639308	1279846000	1.3995146	8.1	
209	253.44	183.42	10628248	1107000000	1.8924941	6.04	
210	179.07	126.52	55994378	3924000000	3.9286149	10.99	
211	97.67	77.26	22785451	1987100000	1.6147361	3.34	
212	72.18	49.31	9326484	409832000	1.2129636	2.01	
213	44.37	34.51	34822225	4295000000	1.1415336	1.69	
214	114.85	81.54	11037041	1295400000	4.281897	2.39	
215	218.705	159.43	16229343	1137000000	1.4884604	3.12	
216	361.79	256.4	98102120	7115000000	1.8781451	45.55	
217	46.445	31.29	13428792	1179000000	2.308266	11.93	
218	45.73	34.22	13377670	1836000000	2.7288198	3.02	
219	157.1499	109.27	40543547	4737000000	3.8525908	3.09	
220	349.18	231.98	58782414	3884000000	2.209576	7.96	
221	212.8	145.38	24421669	2092089000	1.8652664	4.39	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
222	NYSE	PNR	Pentair Ltd.	Industrials	66.67	18.89	2.04	3.63
223	NYSE	PWR	Quanta Services Inc.	Industrials	33.51	17.54	0	1.28
224	NYSE	RTN	Raytheon Co.	Industrials	198.74	25.78	1.56	6.95
225	NYSE	RSG	Republic Services Inc	Industrials	62.72	26.13	2.14	1.77
226	NYSE	RHI	Robert Half International	Industrials	52.26	20.18	1.71	2.32
227	NYSE	ROK	Rockwell Automation Inc.	Industrials	178.73	26.48	1.77	6.35
228	NYSE	COL	Rockwell Collins	Industrials	133.31	22.29	0.97	4.8
229	NYSE	ROP	Roper Technologies	Industrials	259.4	27.57	0.62	9.38
230	NYSE	LUV	Southwest Airlines	Industrials	55.63	15.89	0.86	5.82
231	NYSE	TXT	Textron Inc.	Industrials	55.54	22.13	0.14	1.14
232	NYSE	TDG	TransDigm Group	Industrials	283	23.76	0	7.92
233	NYSE	UNP	Union Pacific	Industrials	124.86	22.06	2.06	13.52
234	NYSE	UAL	United Continental Holdings	Industrials	63.37	8.85	0	7.05
235	NYSE	UPS	United Parcel Service	Industrials	109.28	18.27	2.97	5.62
236	NYSE	URI	United Rentals, Inc.	Industrials	161.99	16.33	0	15.72
237	NYSE	UTX	United Technologies	Industrials	127.48	19.26	2.12	5.7
238	NYSE	WM	Waste Management Inc.	Industrials	79.12	25.36	2.08	2.66

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
222	74.84	57.63	12466661	863700000	2.5191512	2.48	
223	40.105	30.23	5330131	649404000	0.77893436	1.43	
224	213.45	147.86	59066256	3868000000	2.2938328	5.28	
225	69.4	57.53	21590904	2734000000	2.8841186	2.83	
226	60.59	42.92	7047165	565196000	1.3330402	5.98	
227	210.72	147.67	24123216	1323200000	3.760594	10.94	
228	139.63	89.9	22197871	1696000000	3.781273	3.46	
229	290.415	191.22	27247790	1555209000	5.9715905	4.23	
230	66.985	49.76	34351212	4533000000	1.6294897	3.84	
231	62.19	45	15254672	1454000000	1.0645695	2.57	
232	321.38	203.72	15241204	1635916000	4.268832	.	
233	143.05	101.06	101513290	10169000000	4.8605075	.	
234	83.04	56.51	19363059	5929000000	0.5020496	2.09	
235	135.53	102.12	96436357	7919000000	1.4744618	64.7	
236	189	100.621	14654954	2760000000	2.1782618	4.53	
237	139.24	107.05	105387272	10584000000	1.7324123	3.4	
238	89.73	69.55	35488487	3896000000	3.2787669	6.73	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
239	NYSE	XYL	Xylem Inc.	Industrials	70.24	30.94	1.17	1.83
240	NASDAQ	ATVI	Activision Blizzard	Information_Technology	65.83	31.8	0.43	1.28
241	NASDAQ	ADBE	Adobe Systems Inc	Information_Technology	185.16	52.31	0	3.39
242	NASDAQ	AMD	Advanced Micro Devices Inc	Information_Technology	11.22	187	.	0.03
243	NASDAQ	GOOGL	Alphabet Inc Class A	Information_Technology	1007.71	31.48	.	22.27
244	NASDAQ	GOOG	Alphabet Inc Class C	Information_Technology	1001.52	40.29	.	22.27
245	NASDAQ	ADI	Analog Devices, Inc.	Information_Technology	82.68	17.67	2.11	2.11
246	NASDAQ	ANSS	ANSYS	Information_Technology	148.84	42.53	0	2.99
247	NASDAQ	AAPL	Apple Inc.	Information_Technology	155.15	16.86	1.58	9.2
248	NASDAQ	AMAT	Applied Materials Inc	Information_Technology	45.75	14.08	0.82	3.17
249	NASDAQ	ADSK	Autodesk Inc	Information_Technology	104.81	-77.07	0	-2.61
250	NASDAQ	ADP	Automatic Data Processing	Information_Technology	108.25	29.34	2.22	3.85
251	NASDAQ	AVGO	Broadcom	Information_Technology	229.57	15.94	2.95	4.01
252	NASDAQ	CDNS	Cadence Design Systems	Information_Technology	36.82	34.09	0	0.74
253	NASDAQ	CSCO	Cisco Systems	Information_Technology	38.77	17.87	2.88	1.91
254	NASDAQ	CTSH	Cognizant Technology Solut	Information_Technology	75.16	22.44	1.05	2.54
255	NASDAQ	EBAY	eBay Inc.	Information_Technology	41.02	24.86	0	-1.07

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
239	76.81	46.86	12915021	722000000	2.7262094	5.31	
240	74.945	38.93	52518668	2704000000	10.59512	5.16	
241	204.45	114.451	94550214	2538040000	13.092818	11.06	
242	15.65	9.7	11191664	339000000	2.1091955	21.47	
243	1198	824.3	733823966	34217000000	6.801692	4.7	
244	1186.89	803.1903	728535558	32714000000	6.772653	4.67	
245	98.38	74.65	31811579	1663384000	8.00391	3.13	
246	164.9	94.52	13155919	458515000	16.8134	5.79	
247	180.1	131.12	809508034	79386000000	3.4586093	5.66	
248	60.89	34.58	51296482	4336000000	4.7020154	5.44	
249	131.1	81.75	24348295	-378100000	16.50682	224.13	
250	125.24	95.5	50337702	2767400000	4.0483294	12.86	
251	285.68	202.61	92791975	7016000000	6.961893	4.4	
252	46	29.01	10890625	455607000	5.751737	10.98	
253	42.98	30.36	199425716	15447000000	5.484418	3.07	
254	79.28	54.76	45119684	2946000000	3.9678397	3.94	
255	46.99	31.89	44216696	2941000000	4.6720185	3.8	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
256	NASDAQ	EA	Electronic Arts	Information_Technology	116.54	34.48	0	3.07
257	NASDAQ	FB	Facebook, Inc.	Information_Technology	171.58	27.9	0	5.39
258	NASDAQ	FISV	Fiserv Inc	Information_Technology	133.05	27.32	0	4.14
259	NASDAQ	INTC	Intel Corp.	Information_Technology	42.75	12.32	2.65	1.98
260	NASDAQ	INTU	Intuit Inc.	Information_Technology	152.75	40.52	0.97	3.72
261	NASDAQ	KLAC	KLA-Tencor Corp.	Information_Technology	98.54	16.59	2.3	5.88
262	NASDAQ	LRCX	Lam Research	Information_Technology	162.23	16.29	1.17	9.22
263	NASDAQ	MCHP	Microchip Technology	Information_Technology	79.9	21.77	1.75	0.66
264	NASDAQ	MU	Micron Technology	Information_Technology	40	9.01	0	4.36
265	NASDAQ	MSFT	Microsoft Corp.	Information_Technology	85.01	25.76	1.87	2.97
266	NASDAQ	NFLX	Netflix Inc.	Information_Technology	250.1	200.08	0	1.25
267	NASDAQ	NVDA	Nvidia Corporation	Information_Technology	217.52	82.08	0.26	2.57
268	NASDAQ	PAYX	Paychex Inc.	Information_Technology	61.86	27.49	3.09	2.26
269	NASDAQ	PYPL	PayPal	Information_Technology	72.32	49.53	0	1.47
270	NASDAQ	QCOM	QUALCOMM Inc.	Information_Technology	62.42	16.51	3.51	1.65
271	NASDAQ	SWKS	Skyworks Solutions	Information_Technology	99.04	16.45	1.26	5.41
272	NASDAQ	SNPS	Synopsys Inc.	Information_Technology	82.62	67.72	0	0.87

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
256	131.01	81.27	37890227	1560000000	7.4415817	8.54	
257	195.32	132.44	523423037	23624000000	13.241967	7.08	
258	144.2	106.2	26918950	1911000000	6.518713	11.54	
259	50.85	33.23	211536000	26247000000	3.348876	3.34	
260	170.59	111.9	41233772	1654000000	9.633731	33.5	
261	121.65	86.33	16078622	1506642000	4.3395863	12.93	
262	219.7	113.1982	27967535	2967218000	3.0405293	4.52	
263	99.17	69.76	19393096	997492000	7.4475183	5.9	
264	49.89	22.64	48576792	12541000000	2.1912806	2.02	
265	96.07	63.22	689978437	41079000000	7.1130967	9.49	
266	286.81	138.26	114805405	809028000	9.861594	30.8	
267	249.27	95.17	138652800	3098000000	20.094294	20.39	
268	73.1	54.2	23253667	1414900000	7.248487	11.77	
269	86.32	39.92	90708000	2932000000	6.935696	5.81	
270	69.28	48.92	96282829	4191000000	4.263658	3.82	
271	117.65	90.53	18493081	1122900000	6.9704437	4.25	
272	94.8	64.75	12767068	579844000	6.276264	3.98	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
273	NASDAQ	TXN	Texas Instruments	Information_Technology	97.66	24.05	2.43	3.6
274	NASDAQ	VRSN	Verisign Inc.	Information_Technology	105.62	29.5	0	3.43
275	NASDAQ	XLNX	Xilinx Inc	Information_Technology	62.82	27.19	2.09	2.32
276	NYSE	GLW	Corning Inc.	Information_Technology	28.45	16.45	2.08	-0.78
277	NYSE	FIS	Fidelity National Information Servi	Information_Technology	92.74	22.08	1.32	1.72
278	NYSE	IT	Gartner Inc	Information_Technology	114.26	36.86	0	2.31
279	NYSE	GPN	Global Payments Inc.	Information_Technology	100.59	27.86	0.04	1.58
280	NYSE	HRS	Harris Corporation	Information_Technology	149.84	26.38	1.49	4.43
281	NYSE	HPQ	HP Inc.	Information_Technology	19.92	12.07	2.63	1.49
282	NYSE	IBM	International Business Machines	Information_Technology	147.59	10.67	3.9	6.11
283	NYSE	JNPR	Juniper Networks	Information_Technology	24.66	14.09	1.58	0.78
284	NYSE	MA	Mastercard Inc.	Information_Technology	160.62	34.99	0.59	3.65
285	NYSE	MSI	Motorola Solutions Inc.	Information_Technology	98.74	19.03	2.03	-1.08
286	NYSE	ORCL	Oracle Corp.	Information_Technology	46.84	18.81	1.56	2.2
287	NYSE	RHT	Red Hat Inc.	Information_Technology	124.65	79.9	0	1.68
288	NYSE	CRM	Salesforce.com	Information_Technology	104.03	520.15	0	0.27

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
273	120.75	74.52	100262526	7013000000	6.9572234	9.32	
274	118.28	81.17	10754984	767864000	12.401829	10.82	
275	77.26	54.99	17064976	845468000	7.101206	7.22	
276	35.1	26.31	25759280	2970000000	2.544682	1.71	
277	103.65	77.63	32308460	2782000000	4.7038417	3.25	
278	142.16	97.96	10828314	234935000	4.894499	13.47	
279	113.26	76.47	16920023	960345000	5.775833	4.73	
280	160.67	104.16	18140727	1368000000	2.9516637	5.88	
281	24.1	15.39	34895294	3700000000	0.8954903	0.66	
282	182.79	139.13	142433004	16557000000	1.817167	7.7	
283	30.96	23.87	9267350	1115500000	1.8543326	1.78	
284	177.11	105.8	187102014	7113000000	15.020556	26.93	
285	107.78	77.23	16626040	1629000000	2.6092634	6.81	
286	53.14	40.01	202302350	16545000000	5.2561646	3.56	
287	135.77	78.48	22799924	541809000	8.202077	15.69	
288	114.52	79.63	79489115	925804000	10.3738785	8.81	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
289	NYSE	TEL	TE Connectivity Ltd.	Information_Technology	95.27	19.72	1.61	4.71
290	NYSE	TSS	Total System Services	Information_Technology	81.17	25.85	0.61	3.16
291	NYSE	V	Visa Inc.	Information_Technology	113.86	32.72	0.7	2.8
292	NYSE	WU	Western Union Co	Information_Technology	18.81	10.17	3.59	0.51
293	NYSE	XRX	Xerox Corp.	Information_Technology	29.8	8.87	3.21	0.59
294	NYSE	EMN	Eastman Chemical	Materials	93.57	12.28	2.26	10.12
295	NYSE	ECL	Ecolab Inc.	Materials	127.76	28.08	1.23	4.14
296	NYSE	FMC	FMC Corporation	Materials	80.87	32.48	0.79	1.56
297	NYSE	FCX	Freeport-McMoRan Inc.	Materials	17.16	14.67	1.12	1.24
298	NYSE	IP	International Paper	Materials	56.05	15.57	3.21	5.14
299	NYSE	IFF	Intl Flavors & Fragrances	Materials	138	24.17	1.93	5.05
300	NYSE	LYB	LyondellBasell	Materials	105.79	10.35	3.26	12.25
301	NYSE	MLM	Martin Marietta Materials	Materials	208.42	30.38	0.8	6.63
302	NYSE	MON	Monsanto Co.	Materials	119.08	21.53	1.79	5.09
303	NYSE	NEM	Newmont Mining Corporation	Materials	36.61	26.34	0.81	-1.18
304	NYSE	NUE	Nucor Corp.	Materials	60.38	17.01	2.42	4.1
305	NYSE	PKG	Packaging Corporation of America	Materials	111.95	18.57	2.15	7.07

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
289	108.23	71.93	34983666	2797000000	2.5734365	3.6	
290	89.92	50.96	15694951	1097534000	3.175548	6.57	
291	126.88	84.88	270038723	13086000000	14.433654	9.4	
292	22.21	18.39	8951609	694600000	2.22677	12.65	
293	37.42	26.64	7938833	1191000000	0.7877656	1.49	
294	104.08	76.02	14226831	2152000000	1.4904785	2.78	
295	140.5	119.61	38460272	2848600000	3.7360687	5.28	
296	98.7	56.53	11273962	557800000	6.0089035	5.26	
297	20.25	11.05	25853969	5347000000	1.6538345	3.66	
298	66.94	49.6	24465996	3004000000	1.0738261	4.99	
299	157.4	116.3	11270040	699963000	4.4208813	6.34	
300	121.95	78.01	43556650	6851000000	1.3037612	5.86	
301	244.32	191.09	13756813	975223000	4.416998	3.03	
302	123.15	106.97	53076824	4217000000	3.589782	7.96	
303	42.04	31.42	19749449	1509000000	3.7076392	1.81	
304	70.48	51.67	20003317	2648729000	0.99837583	2.34	
305	131.1316	88.47	11051274	1214900000	1.741522	5.54	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
306	NYSE	PPG	PPG Industries	Materials	110.3	18.73	1.58	6.31
307	NYSE	PX	Praxair Inc.	Materials	144.07	24.63	2.2	4.32
308	NYSE	SEE	Sealed Air	Materials	42.62	21.31	1.44	2.46
309	NYSE	SHW	Sherwin-Williams	Materials	387.65	26.75	0.84	18.61
310	NYSE	MOS	The Mosaic Company	Materials	24.13	23.66	0.4	0.85
311	NYSE	VMC	Vulcan Materials	Materials	121.47	40.9	0.78	3.1
312	NYSE	CCI	Crown Castle International Corp.	Real_Estate	103.81	21.45	3.86	1.02
313	NYSE	DLR	Digital Realty Trust Inc	Real_Estate	98.96	16.55	3.57	2.19
314	NYSE	DRE	Duke Realty Corp	Real_Estate	24.52	19.77	3.15	0.88
315	NYSE	EQR	Equity Residential	Real_Estate	55.26	17.6	3.54	1.63
316	NYSE	ESS	Essex Property Trust, Inc.	Real_Estate	218.28	18.66	3.21	6.27
317	NYSE	EXR	Extra Space Storage	Real_Estate	77.56	18.12	3.88	2.92
318	NYSE	FRT	Federal Realty Investment Trust	Real_Estate	108.11	18.35	3.59	3.5
319	NYSE	GGP	General Growth Properties Inc.	Real_Estate	21.62	13.86	4.01	1.34
320	NYSE	HCP	HCP Inc.	Real_Estate	22.64	10.99	6.33	1.33
321	NYSE	HST	Host Hotels & Resorts	Real_Estate	18.75	11.23	4.11	1.02
322	NYSE	IRM	Iron Mountain Incorporated	Real_Estate	32.07	15.42	7.08	0.46

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
306	122.0697	99.57	29043338	2585000000	1.9551051	4.83	
307	166.95	115.53	42948664	3632000000	3.887915	6.88	
308	50.62	41.22	8001938	969700000	2.4700067	10.55	
309	435.15	302.0101	37730995	2160668000	2.5276077	13.42	
310	34.36	19.23	9726962	1165100000	1.8161958	0.94	
311	141.2	108.95	16964162	970976000	5.7576876	3.54	
312	114.97	86.93	44183023	2292600000	10.125291	3.54	
313	127.23	101.101	21400953	1260662000	12.434961	2.32	
314	30.14	24.73	9035293	529483000	16.077257	1.94	
315	70.455	56.07	20925508	1710686000	8.593619	2.09	
316	270.04	214.03	14383525	1237886000	14.1830845	2.3	
317	88.56	71.34	10133548	717468000	12.204818	4.54	
318	143.79	109.74	8077369	540767000	12.898601	3.98	
319	25.72	18.83	21018887	1740540000	17.003777	2.57	
320	33.67	22.8	10967756	1412684000	8.127109	1.97	
321	21.53	17.26	14394715	1547000000	3.5549128	2.02	
322	41.53	32.05	9410249	1116140000	3.2898626	4.97	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
323	NYSE	KIM	Kimco Realty	Real_Estate	14.01	9.28	7.71	0.8
324	NYSE	MAC	Macerich	Real_Estate	58.36	14.81	4.92	3.43
325	NYSE	MAA	Mid-America Apartments	Real_Estate	85.39	14.38	4.2	2.86
326	NYSE	PLD	Prologis	Real_Estate	58.33	20.76	2.93	3.06
327	NYSE	PSA	Public Storage	Real_Estate	180.49	18.21	4.32	6.81
328	NYSE	O	Realty Income Corporation	Real_Estate	47.56	15.54	5.37	1.12
329	NYSE	REG	Regency Centers Corporation	Real_Estate	55.58	15.27	3.69	1.43
330	NYSE	SPG	Simon Property Group Inc	Real_Estate	152.18	13.56	5.04	6.25
331	NYSE	SLG	SL Green Realty	Real_Estate	90.61	14.07	3.5	0.88
332	NYSE	UDR	UDR Inc	Real_Estate	32.92	17.79	3.67	1.08
333	NYSE	VTR	Ventas Inc	Real_Estate	50.92	12.21	5.97	1.86
334	NYSE	VNO	Vornado Realty Trust	Real_Estate	66.18	16.22	3.74	4.33
335	NYSE	HCN	Welltower Inc.	Real_Estate	54.67	12.74	6.15	2.81
336	NYSE	WY	Weyerhaeuser Corp.	Real_Estate	33.6	34.29	3.71	0.77
337	NYSE	VZ	Verizon Communications	Telecomm_Services	49.04	13.08	4.63	7.36
338	NASDAQ	AEP	American Electric Power	Utilities	63.38	17.32	3.85	1.24
339	NASDAQ	EXC	Exelon Corp.	Utilities	35.98	14.51	3.82	1.23

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
323	25.15	14.33	6180487	701190000	7.0508943	1.2	
324	69.73	52.12	8473119	503183000	11.394877	2.24	
325	110.95	86.95	9992629	871483000	6.6291075	1.6	
326	67.53	48.69	31953288	2969194000	14.380373	2.11	
327	232.21	180.9254	32258540	1924803000	16.16417	6.56	
328	63.6	48.89	13784942	1075568000	15.588069	1.92	
329	72.05	56.66	9858367	487636000	13.762162	1.51	
330	187.35	150.15	48139840	4411515000	8.754495	13.24	
331	115.34	91.2	8617714	795889000	6.5820084	1.32	
332	40.71	33.31	9050154	665141000	12.365829	3.27	
333	72.36	51.8	18865999	1935931000	7.0740495	1.76	
334	111.72	66.0101	12778780	0	7.1491003	3.63	
335	78.17	55.29	20943679	1908253000	6.725218	1.49	
336	37.89	30.9504	26070298	1365000000	3.6396794	2.9	
337	54.77	42.8	208092277	45745000000	1.6452544	7.96	
338	78.07	62.69	31701917	4450800000	2.7489934	1.81	
339	42.67	33.3	34734817	8548000000	1.3933871	1.26	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
340	NASDAQ	XEL	Xcel Energy Inc	Utilities	42.44	18.14	3.39	2.21
341	NYSE	CMS	CMS Energy	Utilities	41.77	21.42	3.39	1.99
342	NYSE	ED	Consolidated Edison	Utilities	74.73	18.64	3.8	4.1
343	NYSE	D	Dominion Energy	Utilities	73.31	20.42	4.53	4.91
344	NYSE	DTE	DTE Energy Co.	Utilities	98.49	19.12	3.56	4.82
345	NYSE	DUK	Duke Energy	Utilities	74.32	16.7	4.78	3.12
346	NYSE	EIX	Edison Int'l	Utilities	58.07	13.23	4.05	3.96
347	NYSE	ETR	Entergy Corp.	Utilities	72.02	10.65	4.89	-3.26
348	NYSE	FE	FirstEnergy Corp	Utilities	30.64	11.18	4.67	-14.49
349	NYSE	NEE	NextEra Energy	Utilities	145.29	21.65	2.65	11.39
350	NYSE	NI	NiSource Inc.	Utilities	22.51	19.57	3.38	1.02
351	NYSE	NRG	NRG Energy	Utilities	24	17.78	1.42	-2.23
352	NYSE	PCG	PG&E Corp.	Utilities	38.24	8.75	0	2.78
353	NYSE	PNW	Pinnacle West Capital	Utilities	74.34	16.06	3.7	3.95
354	NYSE	PPL	PPL Corp.	Utilities	29.52	12.83	5.22	2.79
355	NYSE	PEG	Public Serv. Enterprise Inc.	Utilities	46.73	16.11	3.61	1.75
356	NYSE	SCG	SCANA Corp	Utilities	35.6	8.75	6.68	4.16

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
340	52.22	41.16	21559612	3885828000	2.520456	1.94	
341	50.85	41.07	11873961	2099000000	2.4711676	2.65	
342	89.7	72.63	23335778	4288000000	2.960244	1.58	
343	85.3	71.59	47543572	6428000000	3.7954214	2.96	
344	116.74	96.56	17808074	2790000000	1.9091922	1.95	
345	91.8	72.93	52078186	9895000000	2.9348857	1.27	
346	83.38	58.76	19447671	4284000000	2.161095	1.59	
347	87.95	69.63	13116895	880700000	1.5543115	1.54	
348	35.22	27.93	13706075	-5067000000	1.2994481	2.19	
349	159.64	124.18	69661178	9018000000	4.091698	2.75	
350	27.76	21.93	7776566	1448600000	2.2361343	1.82	
351	29.78	14.52	8030036	1774000000	0.9933021	6.73	
352	71.57	38.45	20309412	6471000000	1.5730644	1.09	
353	92.48	73.81	8397610	1614399000	2.9931207	1.65	
354	40.2	29.205	20839815	3937000000	3.7497053	1.95	
355	53.28	41.67	24138050	3613000000	3.4491453	1.88	
356	71.28	35.31	5229449	1459000000	1.651705	0.92	

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Q1 Part g) Merge the stocks dataset and the SectorVolatility dataset to create stocks2

Obs	Exchange	SYMBOL	Name	Sector	Price	PricetoEarnings	DividendYield	EarningsperShare
357	NYSE	SRE	Sempra Energy	Utilities	103.36	19.14	3.16	5.45
358	NYSE	SO	Southern Co.	Utilities	43.4	15.78	5.35	2.53
359	NYSE	WEC	Wec Energy Group Inc	Utilities	59.5	19.57	3.69	3.79

Obs	FiftytwoWeekHigh	FiftytwoWeekLow	MarketCap_000s	EBITDA	PricetoSales	PricetoBook	Sector_Volatility
357	122.975	100.63	26163862	3763000000	3.15303	1.98	
358	53.51	42.63	43497224	6012000000	2.5080602	1.82	
359	70.09	56.63	18890297	2736500000	2.4834197	2.1	