

Theoretical price of stock			
Trading day	Stock-i		
	Company 1	Company 2	Company 3
	1	100	200
2	110	210	1050
3	121	205	1080
4	95	150	1020
5	98	210	950

1-day returns

r_i r_i r_i var
 Company 1 Company 2 Company 3

0.09531018 0.04879016 0.04879 0.010072
 0.09531018 -0.0240976 0.028171 0.010072
 -0.2419137 -0.3123747 -0.05716 0.056104
 0.03109059 0.33647224 -0.0711 0.001306

E(r_i) -0.0050507 0.01219754 -0.01282 Variance 0.025852

sigma 0.160784

fce 0.025852

0.160784

2-day returns

var

var

0.001339	0.003796						
0.001317	0.001681		0.19062	0.024693	0.076961		0.060625 0.014541
0.105347	0.001966		-0.1466	-0.33647	-0.02899		0.008281 0.057878
0.105154	0.003396		-0.21082	0.024098	-0.12825		0.024094 0.014398
0.071053	0.003613	E(ri)	-0.0556	-0.09589	-0.02676	Variance	0.0465 0.043408
0.266557	0.060106					sigma	0.215639 0.208347
0.071053	0.003613					fce	0.0465 0.043408
0.266557	0.060106						0.215639 0.208347

0.010758

4.96E-06

0.010301

0.010532

0.102626

0.010532

0.102626

Compa ny	Year							
	2014				2015			
	I.	II.	III.	IV.	I.	II.	III.	IV.
A	1010	1055	1100	1031	988	1065	918	1060
B	2650	3000	3848	3228	3638	4205	3979	4731
C	1505	2030	2190	2325	2250	2443	1700	1796
D	178	300	325	396	351	370	335	327
E	281	372	358	494	460	539	443	468
F	2645	3125	3400	3330	3400	3425	3475	4100
G	547	800	803	1070	975	952	997	944

q-returns

							E(ri)	
	0.04359	0.041769	-0.06478	-0.0426	0.075047	-0.14853	0.143827	0.006903
	0.124053	0.248941	-0.17569	0.119571	0.14484	-0.05524	0.173106	0.082797
	0.299243	0.075866	0.059818	-0.03279	0.082297	-0.3626	0.054934	0.025253
	0.521999	0.080043	0.197589	-0.12063	0.052717	-0.09937	-0.02417	0.086882
	0.280539	-0.03836	0.322003	-0.07131	0.158489	-0.19615	0.054899	0.072873
	0.166763	0.084341	-0.0208	0.020803	0.007326	0.014493	0.165392	0.062617
	0.380163	0.003743	0.287059	-0.09298	-0.02387	0.046186	-0.05462	0.077954

two-years returns

A	0.048319
B	0.579577
C	0.176769
D	0.608177
E	0.510114
F	0.438316
G	0.545677

							Var
0.001346	0.001216	0.005139	0.002451	0.004644	0.02416	0.018748	0.009617
0.001702	0.027604	0.066816	0.001352	0.003849	0.019055	0.008156	0.021422
0.075071	0.002562	0.001195	0.003369	0.003254	0.150429	0.000881	0.03946
0.189326	4.68E-05	0.012256	0.043061	0.001167	0.034691	0.012333	0.048813
0.043125	0.012373	0.062065	0.020789	0.00733	0.072371	0.000323	0.036396
0.010847	0.000472	0.006959	0.001748	0.003057	0.002316	0.010563	0.005994
0.09133	0.005507	0.043725	0.029217	0.010369	0.001009	0.017577	0.033122

sigma function of excel

0.098067 0.009617

0.146364 0.021422

0.198645 0.03946

0.220938 0.048813

0.190778 0.036396

0.077418 0.005994

0.181996 0.033122

Date	Close	ri	var	monthly returns	
2/19/2019	78.230003				
2/20/2019	78.529999	0.003827	2.34798E-05		
2/21/2019	77.82	-0.00908	6.50298E-05		
2/22/2019	78.419998	0.007681	7.56663E-05		
2/25/2019	78.5	0.00102	4.15258E-06		
2/26/2019	78.660004	0.002036	9.32892E-06		
2/27/2019	79.470001	0.010245	0.000126853		
2/28/2019	79.029999	-0.00555	2.05568E-05		
3/1/2019	80	0.012199	0.000174696		
3/4/2019	80.309998	0.003867	2.38693E-05		
3/5/2019	80.190002	-0.0015	2.27666E-07		
3/6/2019	79.279999	-0.01141	0.000108053		
3/7/2019	80.160004	0.011039	0.00014537		
3/8/2019	79.010002	-0.01445	0.000180421		
3/11/2019	79.779999	0.009698	0.000114844		
3/12/2019	80	0.002754	1.42275E-05		
3/13/2019	80.709999	0.008836	9.71007E-05		
3/14/2019	80.440002	-0.00335	5.44171E-06		
3/15/2019	80.150002	-0.00361	6.72651E-06		
3/18/2019	81.080002	0.011536	0.000157617		
3/19/2019	80.870003	-0.00259	2.48141E-06	0.03319	0.0028
3/20/2019	81.32	0.005549	4.31276E-05	0.034911	0.002985
3/21/2019	81.790001	0.005763	4.59839E-05	0.049757	0.004828
3/22/2019	80.480003	-0.01615	0.00022886	0.02593	0.002084
3/25/2019	79.919998	-0.00698	3.55753E-05	0.017927	0.001418
3/26/2019	80.959999	0.012929	0.000194525	0.02882	0.002357
3/27/2019	80.339996	-0.00769	4.4482E-05	0.010888	0.000937
3/28/2019	80.739998	0.004967	3.5816E-05	0.021407	0.001692
3/29/2019	80.800003	0.000743	3.10128E-06	0.00995	0.000881
4/1/2019	81.730003	0.011444	0.000155309	0.017527	0.001388
4/2/2019	81.379997	-0.00429	1.0716E-05	0.014731	0.001187
4/3/2019	80.900002	-0.00592	2.39857E-05	0.020228	0.001596
4/4/2019	82.050003	0.014115	0.000229012	0.023304	0.001852
4/5/2019	82.489998	0.005348	4.05302E-05	0.043103	0.003947
4/8/2019	83	0.006164	5.15767E-05	0.039568	0.003516
4/9/2019	81.93	-0.01298	0.000142976	0.023839	0.001898
4/10/2019	81.559998	-0.00453	1.23072E-05	0.010476	0.000912
4/11/2019	81.949997	0.00477	3.35065E-05	0.018598	0.001469
4/12/2019	80.919998	-0.01265	0.00013526	0.009561	0.000858
4/15/2019	80.650002	-0.00334	5.40109E-06	-0.00532	0.000208
4/16/2019	81.199997	0.006796	6.10666E-05	0.004072	0.000566
4/17/2019	81.43	0.002829	1.47969E-05	0.001352	0.000444
4/18/2019	81.129997	-0.00369	7.14414E-06	-0.0081	0.000135
4/22/2019	82.900002	0.021582	0.00051078	0.029626	0.002436
4/23/2019	83.379997	0.005773	4.61243E-05	0.042382	0.003857
4/24/2019	81.760002	-0.01962	0.00034604	0.009833	0.000874
4/25/2019	82.220001	0.00561	4.3938E-05	0.023131	0.001837
4/26/2019	80.489998	-0.02127	0.000409963	-0.0031	0.000276
4/29/2019	79.970001	-0.00648	2.98467E-05	-0.01033	8.84E-05

4/30/2019	80.279999	0.003869	2.38834E-05	-0.0179	3.33E-06
5/1/2019	78.669998	-0.02026	0.000370197	-0.03387	0.0002
5/2/2019	77.290001	-0.0177	0.000278194	-0.04565	0.000672
5/3/2019	77.470001	0.002326	1.11845E-05	-0.05744	0.001422
5/6/2019	77.129997	-0.0044	1.14269E-05	-0.06718	0.002252
5/7/2019	76.720001	-0.00533	1.85907E-05	-0.07868	0.003475
5/8/2019	76.839996	0.001563	6.66144E-06	-0.06414	0.001973
5/9/2019	76.769997	-0.00091	1.13952E-08	-0.06053	0.001665
5/10/2019	76.559998	-0.00274	2.96199E-06	-0.06803	0.002334
5/13/2019	75.709999	-0.01116	0.000102948	-0.06655	0.002193
5/14/2019	75.809998	0.00132	5.46661E-06	-0.06189	0.001778
5/15/2019	76.370003	0.00736	7.01899E-05	-0.06133	0.001731
5/16/2019	76.360001	-0.00013	7.87049E-07	-0.06428	0.001985
5/17/2019	75.910004	-0.00591	2.39355E-05	-0.0665	0.002188
5/20/2019	75.900002	-0.00013	7.85642E-07	-0.08822	0.004691
5/21/2019	76.25	0.004601	3.15714E-05	-0.08939	0.004853
5/22/2019	75.559998	-0.00909	6.51615E-05	-0.07886	0.003497
5/23/2019	73.790001	-0.0237	0.000514639	-0.10818	0.007823
5/24/2019	74.099998	0.004192	2.71483E-05	-0.08272	0.003968
5/28/2019	72.610001	-0.02031	0.000372286	-0.09655	0.005902
5/29/2019	72.160004	-0.00622	2.70255E-05	-0.10663	0.007553
5/30/2019	71.970001	-0.00264	2.61928E-06	-0.08901	0.004801
5/31/2019	70.769997	-0.01681	0.000249517	-0.08813	0.004679
6/3/2019	71.879997	0.015563	0.00027493	-0.07489	0.003043
6/4/2019	73.589996	0.023511	0.000601682	-0.04698	0.000743
6/5/2019	72.980003	-0.00832	5.33701E-05	-0.04998	0.000915
6/6/2019	74.309998	0.01806	0.000363976	-0.03348	0.000189
6/7/2019	74.580002	0.003627	2.15763E-05	-0.02894	8.49E-05
6/10/2019	74.910004	0.004415	2.95194E-05	-0.02179	4.25E-06
6/11/2019	74.839996	-0.00093	6.91158E-09	-0.01156	6.67E-05
6/12/2019	74.029999	-0.01088	9.72967E-05	-0.02376	1.63E-05
6/13/2019	74.68	0.008742	9.52586E-05	-0.02238	7.03E-06
6/14/2019	74.349998	-0.00443	1.16318E-05	-0.02668	4.83E-05
6/17/2019	75.089996	0.009904	0.000119286	-0.01086	7.86E-05
6/18/2019	75.739998	0.008619	9.28754E-05	-0.00211	0.00031
6/19/2019	75.32	-0.00556	2.06348E-05	-0.01227	5.56E-05
6/20/2019	76.610001	0.016982	0.000324002	0.013801	0.001124
6/21/2019	77.690002	0.013999	0.000225513	0.051503	0.005074
6/24/2019	76.949997	-0.00957	7.31473E-05	0.03774	0.003302
6/25/2019	76.269997	-0.00888	6.1749E-05	0.049177	0.004748
6/26/2019	76.599998	0.004317	2.84681E-05	0.059711	0.00631
6/27/2019	75.82	-0.01023	8.49495E-05	0.052113	0.005161
6/28/2019	76.629997	0.010626	0.000135597	0.079553	0.009856
7/1/2019	76.559998	-0.00091	1.0868E-08	0.063077	0.006856
7/2/2019	75.720001	-0.01103	0.000100285	0.028533	0.002329
7/3/2019	76.440002	0.009464	0.000109871	0.046321	0.004362
7/5/2019	76.129997	-0.00406	9.27596E-06	0.024197	0.001929
7/8/2019	76.480003	0.004587	3.14169E-05	0.025157	0.002014
7/9/2019	76.43	-0.00065	1.3258E-07	0.020088	0.001585
7/10/2019	77.510002	0.014032	0.000226497	0.035055	0.003001

7/11/2019	77.57	0.000774	3.21092E-06	0.04671	0.004414
7/12/2019	77.629997	0.000773	3.20873E-06	0.038742	0.003418
7/15/2019	77.080002	-0.00711	3.71113E-05	0.03606	0.003112
7/16/2019	75.93	-0.01503	0.000196389	0.011125	0.000952
7/17/2019	75.480003	-0.00594	2.42652E-05	-0.00344	0.000265
7/18/2019	74.839996	-0.00852	5.62077E-05	-0.00639	0.000178
7/19/2019	74.989998	0.002002	9.123E-06	-0.02137	2.71E-06
7/22/2019	75.07	0.001066	4.34473E-06	-0.03431	0.000213
7/23/2019	75.370003	0.003988	2.50648E-05	-0.02075	1.04E-06
7/24/2019	75.360001	-0.00013	7.83969E-07	-0.012	5.96E-05
7/25/2019	74.93	-0.00572	2.21292E-05	-0.02204	5.37E-06
7/26/2019	74.809998	-0.0016	3.4184E-07	-0.01341	3.99E-05
7/29/2019	75.339996	0.00706	6.525E-05	-0.01698	7.55E-06
7/30/2019	75.349998	0.000133	1.32453E-06	-0.01593	1.44E-05
7/31/2019	74.360001	-0.01323	0.000149025	-0.01812	2.57E-06
8/1/2019	72.459999	-0.02588	0.000618287	-0.05347	0.001139
8/2/2019	71.75	-0.00985	7.79456E-05	-0.05925	0.001563
8/5/2019	70.279999	-0.0207	0.0003874	-0.08454	0.004201
8/6/2019	70.959999	0.009629	0.000113363	-0.07426	0.002974
8/7/2019	70.5	-0.0065	3.00905E-05	-0.09479	0.005635
8/8/2019	72.379997	0.026317	0.000747224	-0.06925	0.002453
8/9/2019	70.839996	-0.02151	0.000419762	-0.09153	0.005156
8/12/2019	69.629997	-0.01723	0.000262769	-0.10165	0.006711
8/13/2019	70.489998	0.012275	0.000176717	-0.07434	0.002983
8/14/2019	67.650002	-0.04112	0.001608436	-0.10952	0.008063
8/15/2019	67.25	-0.00593	2.413E-05	-0.10694	0.007606
8/16/2019	68.300003	0.015493	0.000272611	-0.09344	0.005435
8/19/2019	69.449997	0.016697	0.000313834	-0.07781	0.003374
8/20/2019	69.029999	-0.00607	2.54794E-05	-0.08787	0.004643
8/21/2019	69.720001	0.009946	0.000120213	-0.07779	0.003371
8/22/2019	69.57	-0.00215	1.28973E-06	-0.07422	0.00297
8/23/2019	67.489998	-0.03035	0.000860595	-0.10297	0.00693
8/26/2019	67.849998	0.00532	4.01713E-05	-0.10471	0.007223
8/27/2019	67.190002	-0.00977	7.66809E-05	-0.11462	0.009005
8/28/2019	67.68	0.007266	6.86312E-05	-0.09413	0.005536
8/29/2019	68.43	0.011021	0.000144931	-0.05722	0.001406
8/30/2019	68.480003	0.00073	3.05755E-06	-0.04665	0.000725
9/3/2019	68.559998	0.001167	4.77686E-06	-0.02478	2.55E-05
9/4/2019	69.290001	0.010591	0.00013478	-0.02382	1.67E-05
9/5/2019	70.269997	0.014044	0.000226877	-0.00327	0.000271
9/6/2019	70.93	0.009349	0.000107468	-0.02024	2.61E-07
9/9/2019	71.489998	0.007864	7.88937E-05	0.009134	0.000833
9/10/2019	72.07	0.00808	8.27818E-05	0.034442	0.002934
9/11/2019	71.93	-0.00194	8.58052E-07	0.020223	0.001596
9/12/2019	71.980003	0.000695	2.93456E-06	0.062041	0.006686
9/13/2019	72.639999	0.009127	0.000102931	0.077099	0.009375
9/16/2019	73.730003	0.014894	0.000253199	0.0765	0.009259
9/17/2019	73.169998	-0.00762	4.36419E-05	0.052178	0.00517
9/18/2019	72.82	-0.00479	1.42634E-05	0.053449	0.005355
9/19/2019	72.330002	-0.00675	3.2873E-05	0.036752	0.00319

9/20/2019	72.080002	-0.00346	5.97428E-06	0.035443	0.003044
9/23/2019	72.129997	0.000693	2.92923E-06	0.066491	0.007433
9/24/2019	71.139999	-0.01382	0.000163894	0.04735	0.004499
9/25/2019	71.349998	0.002948	1.57268E-05	0.060073	0.006368
9/26/2019	70.970001	-0.00534	1.86789E-05	0.047467	0.004515
9/27/2019	71.480003	0.00716	6.68895E-05	0.043606	0.004011
9/30/2019	70.610001	-0.01225	0.000126064	0.03063	0.002536
10/1/2019	68.949997	-0.02379	0.000518568	0.005672	0.000645
10/2/2019	67.150002	-0.02645	0.000646912	-0.03137	0.000136
10/3/2019	67.980003	0.012285	0.000176964	-0.03313	0.00018
10/4/2019	68.970001	0.014458	0.000239512	-0.02802	6.88E-05
10/7/2019	68.019997	-0.01387	0.000165168	-0.04976	0.000902
10/8/2019	66.699997	-0.0196	0.000345168	-0.07743	0.00333
10/9/2019	67.440002	0.011033	0.00014524	-0.06446	0.002001
10/10/2019	68.25	0.011939	0.00016789	-0.05321	0.001121
10/11/2019	68.980003	0.010639	0.000135894	-0.0517	0.001022
10/14/2019	69.18	0.002895	1.53138E-05	-0.0637	0.001934
10/15/2019	69.419998	0.003463	2.00822E-05	-0.05261	0.001081
10/16/2019	68.230003	-0.01729	0.000264793	-0.06511	0.002059
10/17/2019	68.139999	-0.00132	9.11212E-08	-0.05967	0.001596
10/18/2019	67.610001	-0.00781	4.61088E-05	-0.06402	0.001962
10/21/2019	68.739998	0.016575	0.00030953	-0.04814	0.000807
10/22/2019	69.089996	0.005079	3.71714E-05	-0.02924	9.05E-05
10/23/2019	69.75	0.009507	0.000110788	-0.02268	8.73E-06
10/24/2019	69.089996	-0.00951	7.20689E-05	-0.02685	5.07E-05
10/25/2019	69.25	0.002313	1.10978E-05	-0.03169	0.000143
10/28/2019	68.639999	-0.00885	6.13022E-05	-0.0283	7.35E-05
10/29/2019	68.440002	-0.00292	3.60935E-06	-0.00742	0.000151
10/30/2019	67.720001	-0.01058	9.1351E-05	0.008453	0.000794
10/31/2019	67.57	-0.00222	1.43842E-06	-0.00605	0.000187
11/1/2019	69.599998	0.0296	0.000937497	0.009093	0.000831
11/4/2019	71.669998	0.029308	0.000919655	0.05227	0.005183
11/5/2019	73.089996	0.019619	0.000425903	0.091487	0.012368
11/6/2019	71.489998	-0.02213	0.000445878	0.058319	0.006091
11/7/2019	73.010002	0.021039	0.000486512	0.067419	0.007594
11/8/2019	70.769997	-0.03116	0.000908611	0.025618	0.002056
11/11/2019	70.339996	-0.00609	2.57702E-05	0.016629	0.001322
11/12/2019	69.370003	-0.01389	0.000165583	-0.00072	0.000361
11/13/2019	68.800003	-0.00825	5.23108E-05	0.008319	0.000787
11/14/2019	68.5	-0.00437	1.12353E-05	0.005269	0.000625
11/15/2019	69.190002	0.010023	0.000121898	0.0231	0.001834
11/18/2019	68.519997	-0.00973	7.59095E-05	-0.00321	0.000273
11/19/2019	67.82	-0.01027	8.55691E-05	-0.01855	1.38E-06
11/20/2019	68.029999	0.003092	1.68902E-05	-0.02497	2.75E-05
11/21/2019	69.669998	0.023821	0.000616983	0.00836	0.000789
11/22/2019	69.370003	-0.00432	1.08709E-05	0.001731	0.00046
11/25/2019	68.910004	-0.00665	3.17537E-05	0.003926	0.000559
11/26/2019	68.739998	-0.00247	2.10827E-06	0.004374	0.000581
11/27/2019	68.699997	-0.00058	1.90137E-07	0.014368	0.001162
11/29/2019	68.129997	-0.00833	5.34861E-05	0.008254	0.000783

12/2/2019	68.419998	0.004248	2.77274E-05	-0.0171	6.9E-06
12/3/2019	67.879997	-0.00792	4.76876E-05	-0.05433	0.001198
12/4/2019	68.650002	0.01128	0.000151238	-0.06267	0.001844
12/5/2019	68.410004	-0.0035	6.17004E-06	-0.04404	0.000591
12/6/2019	69.510002	0.015952	0.000287971	-0.04913	0.000864
12/9/2019	69.660004	0.002156	1.0073E-05	-0.01581	1.53E-05
12/10/2019	69.059998	-0.00865	5.82554E-05	-0.01836	1.85E-06
12/11/2019	68.959999	-0.00145	1.85689E-07	-0.00593	0.00019
12/12/2019	70.339996	0.019814	0.000433976	0.022137	0.001752
12/13/2019	69.230003	-0.01591	0.000221655	0.010601	0.00092
12/16/2019	70	0.011061	0.000145903	0.011639	0.000984
12/17/2019	69.68	-0.00458	1.27005E-05	0.016788	0.001333
12/18/2019	69.870003	0.002723	1.39967E-05	0.029779	0.002451
12/19/2019	69.389999	-0.00689	3.45219E-05	0.019794	0.001562
12/20/2019	69.940002	0.007895	7.94441E-05	0.003868	0.000557
12/23/2019	70.290001	0.004992	3.61193E-05	0.013175	0.001082
12/24/2019	70.019997	-0.00385	8.012E-06	0.01598	0.001275
12/26/2019	70.129997	0.00157	6.69713E-06	0.020019	0.00158
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12/31/2019	69.779999	0.004308	2.83724E-05	0.019682	0.001553
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1/7/2020	70.290001	-0.00822	5.18337E-05	0.011159	0.000954
1/8/2020	69.230003	-0.0152	0.00020099	-0.00619	0.000183
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1/10/2020	69.139999	-0.00893	6.25563E-05	0.002607	0.000499
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1/22/2020	67.190002	-0.00579	2.27483E-05	-0.04011	0.000416
1/23/2020	66.769997	-0.00627	2.75886E-05	-0.05138	0.001002
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1/31/2020	62.119999	-0.04208	0.001686348	-0.1322	0.012651
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2/10/2020	59.959999	-0.02487	0.000568988	-0.14246	0.015063
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