

Security  
 i  
 Return  
 v%  
 Excessive Return

Var\_M 10

Security	E(ri)	E(ri)-rf	beta_i	var_eps_i	(E(ri)-rf)/beta_i	(ri-rf)*beta	beta_i^2/v
1	15	10	1	50	10	0.2	0.02
2	17	12	1.5	40	8	0.45	0.05625
3	12	7	1	20	7	0.35	0.05
4	17	12	2	10	6	2.4	0.4
5	11	6	1	40	6	0.15	0.025
6	11	6	1.5	30	4	0.3	0.075
7	11	6	2	40	3	0.3	0.1
8	7	2	0.8	16	2.5	0.1	0.04
9	7	2	1	20	2	0.1	0.05
10	5.6	0.6	0.6	6	1	0.06	0.06

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ar_eps_i	accum	accum	Ci	Selection	Zi	wi	
	0.2	0.02	1.666667	long	0.090979	0.23477	
	0.65	0.07625	3.687943	long	0.095585	0.246657	
	1	0.12625	4.41989	long	0.077447	0.199851	
	3.4	0.52625	5.429142	long	0.109789	0.283309	
	3.55	0.55125	5.451056	long	C*	0.013724	
	3.85	0.62625	5.301205	short		0.035414	
	4.15	0.72625	5.022693	short			
	4.25	0.76625	4.906205	short			
	4.35	0.81625	4.747613	short			
	4.41	0.87625	4.517286	short			
					Sum_Zi	0.387524	1
					Rp	15.31872	
					Beta_p	1.406637	
					Sys_var_p		
					Unsys_var_p		
					Var_p		
					Sigma_p		

c\*=LAST C\_n

SHORT SELLING ALLOWED!!!

Zi            Wi

0.109654    6.15451

0.130602    7.330219

0.124136    6.967301

0.296543    16.64391

0.037068    2.080489

-0.02586    -1.45167

-0.07586    -4.25799

-0.10086    -5.66116

-0.12586    -7.06432

-0.35173    -19.7413

Sum\_Zi      0.017817            1

Rp            343.935

Beta\_p        25.35393

Sys\_var\_p     6428.22

Unsys\_var\_   12595.01

Var\_p         19023.23

Sigma\_p       137.9247

i	Return	Beta	Unsystematic risk v %	(ri-rf)/beta_i	Security	var_M
1	19	1	20	16	0.8	0.05
3	11	0.5	10	16	0.4	0.025
2	23	1.5	30	13.33333	1	0.075
6	9	0.5	50	12	0.06	0.005
4	25	2	40	11	1.1	0.1
5	13	1	20	10	0.5	0.05
7	14	1.5	30	7.333333	0.55	0.075
8	10	1	50	7	0.14	0.02
9	9.5	1	50	6.5	0.13	0.02
11	11	1.5	30	5.333333	0.4	0.075
10	13	2	20	5	1	0.2
12	8	1	20	5	0.25	0.05
14	7	1	20	4	0.2	0.05
13	10	2	40	3.5	0.35	0.1

Security Return Beta Unsystematic risk  
 $r_f = 3\%$   
 $\sigma_M = 10$

rf 3  
var\_M 10

accum	accum	Ci	selection	Zi	wi
0.8	0.05	5.333333	long	0.323457	0.337411
1.2	0.075	6.857143	long	0.323457	0.337411
2.2	0.15	8.8	long	0.190123	0.198326
2.26	0.155	8.862745	long	0.024691	0.025757
3.36	0.255	9.464789	long	0.073457	0.076626
3.86	0.305	9.530864	long	C*	0.023457
4.41	0.38	9.1875	short	C*	
4.55	0.4	9.1	short		
4.68	0.42	9	short		
5.08	0.495	8.537815	short		
6.08	0.695	7.647799	short		
6.33	0.745	7.491124	short		
6.53	0.795	7.296089	short		
6.88	0.895	6.914573	short		
			sum_Zi	0.958642	1
			Rp	17.14939	
			Beta_p	0.994205	
			Sys_Var_p	9.884431	
			Unsys_Var_	4.875394	
			Var_p	14.75983	
			Sigma_p	3.841852	
				4.463834	5.031497

SHORT SELLING ALLOWED	Zi	wi
	0.454271	0.468066
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	0.320938	0.330684
	0.050854	0.052399
	0.204271	0.210475
	0.154271	0.158956
	0.020938	0.021574
	0.001709	0.00176
	-0.00829	-0.00854
	-0.07906	-0.08146
	-0.19146	-0.19727
	-0.09573	-0.09864
	-0.14573	-0.15015
	-0.17073	-0.17591
sum_Zi	0.970528	1
Rp	22.62617	
Beta_p	0.712455	
Sys_Var_p	5.075922	
Unsys_Var_p	15.14624	
Var_p	20.22216	
Sigma_p	4.496906	