

	exercises							Total	nonwc		Points		Miniproj		Exam				Exam		Points		Grade
	1	2	3	4	5	6	7		total	Exer	Grp	Pers	1	2	3	4	total	scaled					
14548846	12	10	8	9	7	7	4	57	42	10	5.5	1	3	5	4.5	4.5	17	33.5		4			
14604227	12	0	0	0	0	0	0	12	7	1							0	1		0			
14221600	10	4	0	0	0	0	0	14	9	1							0	1		0			
14588835	12	11	7	9	8	8	5	60	43	10	8	1	3	3.5	5	5	16.5	35.5		4			
14217494	12	11	7	9	8	7	5	59	42	10	9	1	2.5	3	4	5	14.5	34.5		4			
14092211	12	11	7	9	8	7	4	58	41	10	8	1	2	4.5	4	4.5	15	34		4			
14483914	12	11	7	9	8	6	4	57	41	10	9	1	4	5	3.5	5	17.5	37.5		5			
14773271	12	11	8	9	8	8	4	60	43	10							0	10		0			
14485938	12	11	8	9	8	7	5	60	43	10	9	1	2	5	5	5.5	17.5	37.5		5			
14599824	12	11	8	7	8	8	4	58	41	10	8	1	3.5	3.5	4.5	5.5	17	36		5			
13607115	12	11	6	8	6	6	2	51	34	9	8	1	4	5	5	3	17	35		4			
13880589	3	0	0	0	0	0	0	3	1	0							0	0		0			
14632231	12	10	6	9	8	6	5	56	39	10	6.5	1	2	5	5	4	16	33.5		4			
14011962	12	11	8	9	8	7	7	62	45	10	9	1	4	3.5	5	5.5	18	38		5			
14456446	11	6	4	5	7	0	3	36	25	6			1.5	2.5	3	6	13	28.5		3			
14106411	12	11	7	9	8	8	11	66	49	10	8	1	2	3	3	1	9	28		0			
14580985	12	0	0	0	0	0	0	12	7	1							0	1		0			
13866037	12	11	3	5	8	4	6	49	35	8	8	1	3.5	5	5	5.5	19	36		5			
14721537	12	0	3	0	0	0	0	15	10	1	7.5	1	1.5	3	5	1	10.5	20		1			
14416868	12	11	8	9	8	7	6	61	44	10	8	2	3.5	4	5	4	16.5	36.5		5			
14333967	12	9	5	0	8	3	4	41	29	7			2	1.5	5	4	12.5	19.5		0			
14159015	4	11	7	0	0	0	0	22	14	3	5.5	1	4	4	4	1	13	22.5		1			
14453313	12	11	7	0	0	0	0	30	21	4	9	1	3	3.5	5	2.5	14	28		3			
14587292	12	11	7	6	7	4	4	51	36	9	7	1	2	3.5	4.5	6	16	33		4			
14691748	12	11	8	9	0	0	0	40	28	6	8.5	1					0	15.5		0			
14197048	12	11	8	9	8	8	6	62	45	10	7	0	4	3.5	4.5	2.5	14.5	31.5		3			
14049620	12	11	8	9	8	8	6	62	45	10	8.5	2	2.5	3.5	2.5	3.5	12	32.5		4			
13969811	12	0	0	0	0	0	0	12	7	1							0	1		0			
14727065	11	7	8	9	3	0	7	45	30	7	8.5	0	3	5	5	3	16	31.5		3			
14597965	12	11	8	9	8	7	5	60	43	10	5.5	1	2	1	5	6	14	30.5		3			
13762490	12	9	6	5	7	0	5	44	30	7	6.5	1	2.5	4.5	5	4	16	30.5		3			
14467448	12	5	6	4	0	0	0	27	19	4	6.5	-1	1	3	4	3	11	20.5		1			

	exercises							Total	nonwc total	Points Miniproj			Exam				Exam		Points		Grade
	1	2	3	4	5	6	7			Exer	Grp	Pers	1	2	3	4	total	scaled			
14588712	0	11	7	0	0	0	0	18	14	2	8	1	2.5	3	4	4	13.5	24.5	2		
14588644	12	11	6	6	0	2	2	39	27	6	8	1	2.5	2	5	2	11.5	26.5	2		
14613700	12	11	8	7	8	7	5	58	41	10	8	1	2.5	2.5	5	4.5	14.5	33.5	4		
12853601	12	11	0	0	8	6	10	47	33	8	8	1	3.5	2.5	3.5	2.5	12	29	3		
11188335	12	8	6	7	7	0	6	46	31	8	7.5	1	3	5	5	4.5	17.5	34	4		
13593724	12	11	5	9	8	7	6	58	41	10	9	1	3.5	3.5	3.5	2	12.5	32.5	4		
10823552	12	11	8	9	8	8	6	62	45	10			1.5	2	5	2	10.5	30.75	3		
12843064	12	11	8	9	8	8	5	61	44	10	9	1	2	5	5	5.5	17.5	37.5	5		
13733869	12	10	4	0	6	5	0	37	23	6	7.5	1	2	4.5	4	3	13.5	28	3		
14597826	12	11	8	9	7	7	3	57	40	10	8.5	0	1.5	3.5	4.5	5.5	15	33.5	4		
14670840	12	11	8	9	8	8	6	62	45	10	8	2	3.5	5	5	5	18.5	38.5	5		
14067181	11	8	5	0	8	6	9	47	33	8	7.5	1	2	2	2.5	6	12.5	29	3		
12933000	12	11	7	9	8	7	5	59	42	10	9	1	3	5	5	5	18	38	5		
14438969	12	11	8	9	8	8	11	67	50	10	7	1	2	5	5	4	16	34	4		
14580147	12	7	7	5	6	7	6	50	35	8	8.5	1	3	3	3.5	5	14.5	32	4		
14412859	12	11	8	9	8	7	6	61	44	10	7.5	1	3	5	5	6	19	37.5	5		
14608294	12	11	8	9	8	7	4	59	42	10			4	5	5	6	20	45	5		
13447223	12	11	8	9	8	7	6	61	44	10	8.5	2	3	5	4.5	6	18.5	39	5		
14580134	12	9	8	9	8	7	6	59	42	10	5.5	1	3.5	2.5	4.5	3	13.5	30	3		
14438189	12	11	8	9	8	7	6	61	44	10	8.5	2	3.5	5	5	6	19.5	40	5		
14605695	12	11	8	9	8	8	5	61	44	10	8.5	1	3	4.5	4.5	3	15	34.5	4		
14680092	12	0	0	0	0	0	0	12	7	1	6.5	1	1.5	3.5	4	4	13	21.5	1		
14467642	12	11	8	9	8	8	6	62	45	10			2	4.5	5	4.5	16	39	5		
14598249	12	9	5	6	4	0	0	36	21	6	7	0	2	2	3.5	1	8.5	21.5	0		
14102619	9	10	1	0	6	7	5	38	25	6	9	1				0	16	16	0		
14680704	11	11	8	9	8	6	6	59	42	10	8.5	2	2.5	4.5	4.5	4.5	16	36.5	5		
14524721	12	11	6	5	3	0	0	37	23	6	8.5	1	1.5	4	5	5	15.5	31	3		
14444092	12	11	4	9	8	6	4	54	38	9	7	1				0	17	17	0		
14447824	12	11	8	9	8	7	6	61	44	10	9	1	3.5	5	5	6	19.5	39.5	5		
14464603	6	0	0	0	3	0	0	9	5	0						0	0	0	0		
14159028	11	0	6	5	4	5	2	33	22	5	5.5	1	3	4.5	5	2.5	15	26.5	2		
14417883	12	11	8	9	7	8	6	61	45	10	7.5	1	2.5	3.5	4	4	14	32.5	4		

	exercises							Total	nonwc total	Points Miniproj			Exam				Exam		Points		Grade
	1	2	3	4	5	6	7			Exer	Grp	Pers	1	2	3	4	total	scaled			
14261233	12	11	7	9	8	7	6	60	43	10	5.5	2	2.5	5	4.5	5	17	34.5		4	
14334490	12	11	8	0	8	7	10	56	42	10	9	1	3.5	5	5	5	18.5	38.5		5	
14718155	0	0	0	6	6	5	0	17	9	2							0	2		0	
14410961	12	11	8	9	8	8	6	62	45	10	8.5	2	3.5	4.5	5	4.5	17.5	38		5	
14598456	12	11	8	7	8	8	5	59	42	10	8	2	1	4	4	6	15	35		4	
14598278	12	8	2	1	5	0	8	36	23	6	8	1	4	4.5	4	5	17.5	32.5		4	
14614615	12	11	7	3	8	7	4	40	38	6	8	1	1	3.5	3.5	6	14	29		3	
14135327	12	7	8	0	7	7	0	41	27	7	7	1	2	3.5	5	6	16.5	31.5		3	
14106408	12	11	8	9	8	8	6	62	45	10	7	1	2.5	3.5	5	5.5	16.5	34.5		4	
14339181	0	0	0	0	0	0	0	0	0	0	8.5	1	1.5	2	4	3	10.5	20		1	
13862206	12	11	8	9	8	5	2	55	38	9	8	1	1.5	3.5	4	6	15	33		4	
12359163	12	11	8	9	8	7	6	61	44	10	9	1	3.5	5	5	4	17.5	37.5		5	
14453973	12	11	5	6	6	7	5	52	35	9	7.5	1	2	5	5	5	17	34.5		4	
13736714	12	11	8	9	7	6	4	57	41	10	7	0	3.5	3.5	5	4	16	33		4	
14464865	12	11	8	9	8	8	4	60	43	10	8	1	2	5	5	5	17	36		5	
14248162	12	11	8	6	8	6	2	53	36	9	6.5	-2	2	0	5	3.5	10.5	24		2	
14444403	12	11	7	9	8	8	5	60	43	10	6.5	1	3.5	4	5	6	18.5	36		5	
13185831	12	11	8	9	8	7	6	61	44	10	9	2	2.5	4.5	4	4.5	15.5	36.5		5	
14537909	12	11	8	9	8	7	6	61	44	10	9	1	2.5	5	4.5	6	18	38		5	
14614220	12	11	8	9	0	0	0	40	28	6	6.5	1	2.5	4.5	5	3.5	15.5	29		3	
14411326	12	11	8	9	8	7	3	58	41	10			2	4.5	5	4.5	16	39		5	
14589009	12	11	7	9	8	3	6	56	39	10	8.5	1	3	5	5	4	17	36.5		5	
13045447	6	8	8	9	8	5	0	44	29	7	8	1	3.5	5	5	4.5	18	34		4	
14691751	6	5	7	8	8	7	10	51	37	9	8.5	1	2.5	5	4	6	17.5	36		5	
14038275	12	8	6	6	8	3	3	46	29	8	9	1	3	3.5	3.5	4	14	32		4	
14221969	12	11	8	9	8	6	3	57	40	10	9	1	3.5	3.5	4	2	13	33		4	
14594191	12	11	8	9	8	7	3	58	41	10	8.5	2	2.5	4.5	5	5.5	17.5	38		5	
14367519	12	9	4	5	6	3	4	43	29	7	5.5	1					0	13.5		0	
14618239	12	11	8	8	3	4	0	46	34	8	8.5	1					0	17.5		0	
14713574	12	11	8	9	8	7	6	61	44	10	9	2	3.5	5	5	6	19.5	40.5		5	
14428047	7	4	4	6	8	7	5	41	27	7	8	1	3	5	3.5	2.5	14	30		3	
14588754	0	0	8	0	0	0	9	17	17	2	9	-1	2.5	3.5	2.5	4	12.5	22.5		1	

	exercises							Total	nonwc			Points Miniproj			Exam				Exam		Points		Grade
	1	2	3	4	5	6	7		total	Exer	Grp	Pers	1	2	3	4	total	scaled					
14488388	12	11	8	9	8	7	3	58	41	10	7.5	1		2.5	4.5	3	4	14		32.5		4	
13027630	12	11	8	7	8	7	4	57	40	10				1.5	4	5	2.5	13		34.5		4	
14465369	12	7	5	6	8	6	4	48	32	8	9	-2		3.5	3	3.5	4.5	14.5		29.5		3	
14603574	12	8	6	4	8	0	8	46	33	8	8	1		3.5	3.5	5	3	15		32		4	
14712892	12	11	7	9	8	8	4	59	41	10	8.5	1		1.5	4.5	4	6	16		35.5		4	
11735623										0				3	4.5	5	6	18.5		37		5	
14484913	12	0	0	0	0	0	0	12	7	1	8.5	2						0		11.5		0	
14089729	12	11	8	9	8	8	7	63	46	10	9	1		3	4.5	5	6	18.5		38.5		5	
14312386	12	11	8	9	7	8	4	59	42	10	8.5	2		2	3.5	4.5	4	14		34.5		4	
14484900	12	5	4	0	5	0	8	34	24	5	5.5	1		4	3.5	5	4.5	17		28.5		3	
13613345	12	11	7	9	6	0	0	45	30	7	9	1						0		17		0	
14261521	12	7	6	2	7	2	8	44	30	7	6.5	1		2.5	5	3	3	13.5		28		3	
14468052	11	9	8	6	8	7	9	58	41	10	8.5	0		2	3	4	4	13		31.5		3	
14601178	12	0	0	5	7	0	0	24	14	3	8.5	1		2.5	2	5	4.5	14		26.5		2	
14448988	12	11	4	9	0	4	5	45	33	7	8	1						0		16		0	
14261576	12	3	3	0	0	0	0	18	11	2	8	0		4	4.5	4	2	14.5		24.5		2	
14612617	9	7	8	7	6	7	4	48	33	8	8	1		3.5	1	5	4.5	14		31		3	
14416981	12	11	8	9	8	7	5	60	43	10	6.5	1		2.5	4.5	5	3.5	15.5		33		4	
14330643	10	10	0	0	0	0	0	20	12	2								0		2		0	
14585951	12	10	8	9	8	6	5	58	41	10				3	4.5	4.5	5.5	17.5		27.5		2	
13467313	12	11	8	5	6	6	7	55	39	9	9	1		2	5	4.5	6	17.5		36.5		5	
14712009										0	8.5	0		1.5	2	5	3	11.5		20		1	
14588165	12	11	8	6	8	7	6	58	41	10	8	1		2	3	3.5	3.5	12		31		3	
14060434										0	7.5	1		2	4	4.5	3	13.5		22		1	
14245479										0				1.5	2	2	3	8.5		17		0	
14438309	11	11	8	9	7	7	6	59	42	10	8.5	1		3.5	5	4	6	18.5		38		5	
14494990	0	4	0	0	0	0	0	4	4	0								0		0		0	
14399833	12	11	8	9	8	8	4	60	43	10	8	1						0		19		0	
13042893	12	11	8	9	8	8	6	62	45	10	8.5	1		3.5	5	5	4	17.5		37		5	
14245482	12	0	0	0	0	0	0	12	7	1				1.5	4	3.5	1.5	10.5		11.5		0	
13737399	12	11	8	9	8	8	6	62	45	10	9	2		3.5	5	5	5	18.5		39.5		5	
14438325	12	7	7	7	7	7	3	50	34	8	8	1		2	3	5	3.5	13.5		30.5		3	

exercises																		nonwc		Points		Miniproj		Exam				Exam		Points		
1	2	3	4	5	6	7	Total		total	Exer	Grp	Pers	1	2	3	4	total	scaled	Grade													
14485886	12	9	8	9	8	4	6	56	41	10	7	0	2.5	5	3	2	12.5	29.5	3													
14210718	12	11	8	9	8	5	61		44	10	8	2	2	3.5	4	6	15.5	35.5	4													
14679304	12	11	8	9	8	6	62		45	10	7	1	3.5	4.5	4	4	16	34	4													
14445334	12	11	7	7	8	7	56		40	10	8.5	2	3	3.5	5	5	16.5	37	5													
14587593	12	11	8	9	8	7	62		45	10	8	1	3	5	5	6	19	38	5													
13628945	12	11	8	9	8	7	58		41	10	9	1	2	4.5	5	6	17.5	37.5	5													
14292244	11	0	0	0	0	0	11		6	1	6.5	-1	2	2	4	3	11	17.5	0													
14579093	12	11	8	9	8	5	61		44	10	6.5	1	2.5	4	5	6	17.5	35	4													
14466342	12	11	8	9	8	2	57		40	10	6.5	1	2	4.5	5	5	16.5	34	4													
14690118	12	11	8	9	8	7	59		42	10	8	1	2.5	4	5	6	17.5	36.5	5													
14292493	12	9	7	9	8	7	58		41	10	9	1	2	5	5	3	15	35	4													
14168064	12	0	0	0	0	0	12		7	1							0	1	0													
14507395	10	4	4	7	8	6	47		28	8	8	1	3	4.5	4.5	2	14	31	3													
14580736	12	11	8	9	0	7	55		41	9			1.5	3.5	4	5	14	34.5	4													
																		laskaripisteiden pisterajat:		arvosanojen pisterajat:				arvosanjakauma:								
																				pist		teht		arvos		pist		5		38		
																				10		56		5		36		4		38		
																				9		51		4		32		3		25		
																				8		46		3		28		2		7		
																				7		41		2		24		1		8		
																				6		36		1		20		0		26		
																				5		31										
																				4		26						hyv		81.69%		
																				3		21										
																				2		16										
																				1		11										