

	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
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		Points			Exam				Exam		Points		Grade
	1	2	3	4	5	6	7		total	Exer	Miniproj		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	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	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			
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			Points			Miniproj		Exam				Exam		Points		Grade
	1	2	3	4	5	6	7			total	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	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	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	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	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	7	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														