										DOKUMENTAAT	TIO (12P)					TESTAUS (5p)	TOTEUTUS (24p)								
		iikko2 Vii											e 1p Testausd	ok 2p JavaDoc 2		Testaus 5p	Käli 4p		Kompleksisuus 3p Kirjastot 1p				Virheiden käsittely 2p Checkstyle	1p Turha koodi -2p \$		Arvosa
5061843 4974782	1.75	-	2.75 2.75	2.8	2.9	2.95		00	16.7 17.95	2	2	l.5 l.5	1	2	1.5	1 3		2 4		0 1	1.75	3.5	1.5	1 0	28.75 45.45 35.5 53.45	
5427034	2			2.75	3	3		2	18.65	1	2		1	2	2	1 5		4 2	3 3	0 1	3.5	3.5	2	1 0	35.5 53.45	
453481	2	3		2.25	3	3		2	17.25	2		3	1	2	2	1 5		1 4	-	0 1	2	3	1	1 0	31 48.25	
394879	2	2	2	0.75	0.75	0.5		1	9	0.5		1	0.5	0	0 0	75		1 1	1 1	0 1	1	1	0	0 0	9.75 18.75	
1560714	1.25	2.9	2.5	2	2.2	2.8		2	15.65	1	3	1.5	1	1	2	0.5 4.5		3 4	1	0 1	1.5	3	2	0 -1	28 43.65	
2849042	2		2.85	3	3	3		2	18.85	2		5	1	2	2	1 5		3 2	2 1.5	0 1	2	3.5	2	0 0	33 51.85	
			2.25	2		2.75		00	15																0 15.00	
5056984 5402347			2.75 1.75	1.5 0.25	2.25 1.25	1.75		00	14.5 6.75	2		4	1	1.5	2 0	75 5		2 1	1 2	1 1	2	4	1	1 0	31.25 45.75	
4030244	2	1.5	3	2.5	2.25	0		2	16.75	2		4		0.5	2	1 5		3 3	3 3		4		2	1 0	0 6.75 37.5 54.25	
	0.75	3	2	3	2.25	2	2.0		15	2		3	1	2	1	1 4		3 4	1 1	1 1	3	3	2	1 -1	32 47.00	
3773188	2	3		2.25	1.75	1.5		0	12.5	2		4	1	0	2	1 3		2 2	2 3	0 1	2	3	2	0 0	27 39.50	
4443190	2	3	2.75	3	2.25	2	2.0	00	17	2		4	1	1	2	1 5		3 4	1	0 1	3	3	2	2 0	35 52.00	
5073022	2	2.9	2	3	2.25	2.5		2	16.65	2		4	1	1	2	1 4		2 4	1	0 1	1	3	1	0 -1	27 43.65	
	1.75	3	3	3	3	3		2	18.75	2	3	1.5	1	2	2	1 4		4 4	2	1 1	4	4	2	1 0	38.5 57.25	
	0.75	2.75	0	0	0	0 -			3.5																0 3.50	
5095440 - 5454476	2	3	3	2.75	3 2.5	3 2.25		2	16.75 17.75	2		3	0.5	2	2	1 4		4 4	3	1 1	3.5	4	2	1 0	39.5 56.25 31.5 49.25	
4820687		-	-	2.25	1.5	2.25	0.0	_	17.75	2		3	0.75	0	-	75		2 2		0 1	2	2	1	1 0	22.5 36.35	
4938032	2			0.25	1.5	2.5		0	10.00	2		-	3.13		. 0				'	1		2	ı	. 0	0 8.00	
4860456	2	2.5	1.5	1.5	2	1.5		2	13	2		3	1	0	1.5	1 (1 4	1	0 1	1	0	2	0 0	18.5 31.50	
5229494	2	3	3	3	2.75	3	2.0	_	18.75	2		4	1	2	2	1 5		3 4		0 1	3	3	2	1 0	36 54.75	
5135465	1.75	2.75	0	0	0	0 -			4.5																0 4.50	
5334046	2	3	2.5	2	1.75	3	2.0	00	16.25	2		3	0.5	0	2	1 5		3 4	1	0 0	2	4	2	1 0	30.5 46.75	
5090335		2.75	3	3	2.75	3		2	18.5	2	3	1.5	1	2	2	1 5		4 4	2	1 1	3	4	2	1 0	38.5 57.00	
1647122	2	3	3	3		2.75		2	18.75	2		4	1	2	2	1 5		2 4	2	1 1	3	4	2	0 0	36 54.75	
5144870 4170748	1.5		2.25	3	2.5	1.75	2.0	2	16 18	2	1.	.5	1	0	0.5	1 5			2 1	1 1	1 2	0.5	2	1 0	23 39.00 33.5 51.50	
4170748 4788729	2	2.5	3	3	2.75	3		0	16.75	2		4	1	2	2	1 5		3 3	1 1	0 1	2	4	2	1 0	33.5 51.50 34 50.75	
5417060	2	3	3	3	3	3		2	19	2		4	1	2	2	1 !		4 4	1	0 1	2	3.5	1.75	1 0	35.25 54.25	
5129811 -	-	0.5	0.5	0	0	0 -		-	1	2		0	1	0		0.5 1.5		3 1	1	0 0	2	1	2	0 0	15 16.00	
3592741	2	3	3	2.5	3	2	0.0	00	15.5	2		4	1	2	2	1 5		4 4	2.5	0 1	3.5	3	2	1 -1.25	36.75 52.25	
14736111	2	1.75	0	0	0	0 -			3.75																0 3.75	
5271976	2	3	2.5	2.5	3	3		2	16.5	2	2.7		1	1.5	1.5	1 5		3 4	1	1 1	2	0.5	0.5	1 -0.5	28.25 44.75	
5294759	2	3	3	3	3	3		2	19	2		.5	1	1.5	2	1 3		4 4	3	1 1	4	3.5	2	1 -0.5	35 54.00	
5143240 5072382	2	3	2	2.25	2	1.75	2.0		15	2		1.5	0	0		75 2		1 4		1 0	1	4	1	0 -0.75	17.5 32.50	
3477743	1.25	3	3	2.25	3	3 0 -	0.0	00	16.25	2		4	1	2	2	1 4.5	3	5 4	3	1 1	4	4	2	1 0	40 56.25 0 1.25	
4037386	2	1	0	0	0	0 -			1.25																0 3.00	
3612951	2	2.5	3	3	3	3	2.0	00	18.5	2		4	1	2	2	1 5		4 2	2 2	1 1	3.5	4	2	1 0	37.5 56.00	
5015501	2	3	3	3	3	3	2.0	00	19	2	3.	1.5	1	2	2	1 5	3.	5 4	2	1 1	2.5	3	2	1 0	36.5 55.50	
4914917	2	3	3	2.75	3	2.75		2	18.5	2		3	1	0.5	1.5	1 2.5		2 2	2 1	1 1	1.5	4	2	1 0	27 45.50	
5249005	2	3	0	0	0	0 -			5																0 5.00	
15103280	2	3	3	3	3	3		2	19	2		4	1	2	1	1 5		4 4		0 1	4	4	2	1 0	38 57.00	
5350664	1.5		1.25	0.5	1.1	1.5 0.75	2.0	00	10.1	2		3	1	1.5	2	1 3.5		3 () 2	0 1	2	2.5	2	1 0	27.5 37.60 0 10.35	
4111668	2	1.5		0.75	1.5	0.75	0.0	UU	5.85																0 10.35	
5156169	2		2.75	2	0	0 -			9.75																0 9.75	
5423274	1.5			2.25		2.75	2.0	00	15.5	2		4	1	2	2	0 2		4 4	2	1 1	4	2	2	1 0	34 49.50	
5135740	2	3		2.25	1.35	2		0	12.2	2		3	1	0	2	1 3.5		2 3		0 1	1	3	2	1 -1	25.5 37.70	
4690215	2	0.25	2	1	1.85	1.25	0.0	00	8.35	2		0	1	1	0	1 3		5 0	2	0 1	2	3	2	0 0	20.5 28.85	
5353218	2	2.5		0.75	0.9	1		0	7.15	2		2	1	2	2	1 5		4 2		0 1	4	4	2	0 0	35 42.15	
5164478	2	2.5	3	2.5		2.25	2.0	00	16.65	2		3	1	1.5	1	1 :		4 3	3	1 1	3	3.5	1	1 0	32 48.65	
5066136	2	0	0	0	0	0 -			2						0.5										0 2.00	
5071529 4986877	2	2.85	3 1.65	2.9	3 2.25	2.25 1.5	2.0	2	18 12.4	2		4	1	0	0.5	1 3.5		3 4	_	0 1	2	4	2	1 0	31 49.00 19 31.40	
5209197			2.6	0	1.4	1.5		0	9	0		0	0	0	2	1 0.5		2 0	1	1 0	15	2	2	0 0	11.5 20.50	
839050	1./5		2.75	2.9	1.75	1.75		00	16.15	2		4	1	1.5	2	1 0.5		4 4	3	1 1	15	Δ	2	0 0	39.5 55.65	
5559795	2	3		2.75	3	3	2.0		18.75	2		4	1	2	2	1 5		4 4		1 1	4	4	1	1 0	40 58.75	
338864	2	3	2	3	3	3		00	18	2		4	1	1.5	2	1 5		4 2		1 1	4	4	2	1 0	38.5 56.50	
439666	1.75	3	3	3	3	3		2	18.75	2		4	1	2	2	1 4		3 3.5	5 2	0 1	2	3	2	1 0	33.5 52.25	
332967	2			1.75	1.25 -		0.7		10.5																0 10.50	
606128	2	3	3	3	2.5	3		2	18.5	2		4	1	2	2	1 4		4 4		0 1	3	4	2	1 0	37 55.50	
5216106 -	_		2.75	3		2.25	2.0	00	16	2		3	1	0	2	1 (1.	5 2	2 0.5	0 1	1	3	0.5	0 -0.5	18 34.00	
352099	2	3	1.5	1.25 2.5	0.25 2.75	0 -		00	17.5	2		4	4	1.5	1.5	1 5		3 4	1.5	0 1	3	3	1.5	1 0	0 8.00 34 51.50	
1792692 2834633	2	2.75		2.5	2.75	2.5	2.0	00	17.5 15.25	1		4	1	1.5	1.5	1 5				0 1	3	3	1.5	1 0	34 51.50 33 48.25	
026532			0.75	1.5	0.5	2.5	2.0	UU	15.25	1		2	0.5	0.5		1 :	3	J 4	1.5	v 1	3	3	1	ı -U.5	33 48.25 3.5 10.00	
	1.25	0	0.75	0	0.5	0 -			1.25			-	0.0	0.0						U					0 1.25	
5392716	2	2.5		2.75		2.75		2	16	2		4	1	2	1	1 5		3 4	1.5	0 1	2.5	3.5	1.5	1 0	34 50.00	
5801249	0.75	2.25	2.5	1.75	2.5	2.5 -			12.25	2		4	1	0	1.5	1 3		3 2	2 3	1 1	3	3	1	0.5 0	30 42.25	
5012504	2	1.5	2.5	3		2.75		2	16.75	2		4	1	2	2	1 2		1 1	2	1 1	3	2	2	1 0	28 44.75	
5159713	2	1	0.25	0	0	0 -			3.25																0 3.25	

15324331 1	.75 3	1.25	1.5	1.75	2 -		11.25	2	4	1	2	2 1	4	3	4	2 0	1 2	4	1	1 0	34 45.25
	2 2.75	0	1	0.75 -	-		6.5														0 6.50
15387763	2 2.75		2.5	2.5	2.5	2.00	16	2	3	1	2	1 0	5	3	4	1 1	1 2	3.5	1	0 0	30.5 46.50
15397054	2 3	0.75	0	0.75	0.5 -		7														0 7.00
13750936	2 2.5		0	0	0 -	_	5														0 5.00
15422505 14095166	2 3 2.75	1.5	3	1.75	3 2.5	2.00	18 14.5	1.5	3 2.5	1	1	2 0.5	4	2	3	2 0	1 2	3.5		0 -0.25 0 0	27.75 45.75 27.5 42.00
	1.5 0.75	0	0	0	0 -	2.00	2.25		2.5	- 1		2 1	4	3	4	1 0	1 2	3.5	0.5	0 0	0 2.25
15081739	2 3	2	2	2.75	2	2	15.75	2	3	1	1	1 0.5	4	3	3	2 0	1 3	4	1.5	0 -0.5	29.5 45.25
15073598	2 3	1.25	0	0	0 -		6.25	1				-									0 6.25
13749060	2 3	2.5	2.75		2.25 -		15.5	2	4	1	1.5	1 1	5	4	2	2 1	1 2	4	1	1 0	33.5 49.00
15354877	2 2.25	2.5	2.75	3	2.5	2	17	2	1.5	1	0.5	2 1	4	3	4	1 0	1 2	3.5	1	0 -0.25	27.25 44.25
14820658	2 3	1	1.75	2.5	1	2	13.25	2	2.5	1	0	0 1	4	2	0	1 0	1 2	2.5	2	1 0	22 35.25
15154899	2 3	1.75	3	3	3	2.00	17.75	2	4	1		2 1	5	4	0	1 1	1 2	4	2	1 0	33 50.75
13743053	2 3	3	2.5	2.75	2.5	2.00	17.75	2	2	1	1.5	1 1	4	3	4	1 1	1 1.5	3	1	0 0	28 45.75
15342588	2 2.5		0	0	0 -	_	6.25														0 6.25
15259697	2 2.5	3	3	3	3	2	18.5	1.5	3	1	1.5	2 1	5	2	4	3 1	1 3	3	1.5	0 -0.75	32.75 51.25
15310811 1 15425146	.75 0	0	0	0	0 -	2.00	1.75 18.25			-	1.5	2 1	-		-	2 0	1 2	1.5	4.5	1 0	0 1.75 0 32.5 50.75
15278335	2 3	2.5	2.75		2.5 2.75	2.00	18.25	2 2	4	1		2 1	5	3		2.5 0	1 2	1.5	1.5 1.5	1 0	33.5 51.75
15278335	2 3	2.75	3		2.75	2.00	17.5	2	3	1		2 1	5	4		2.5 0	1 4	4	1.3	1 0	37.5 55.00
	2 2.75		3	3	2.25	2.00	17.5	2	3.5	1		2 1	4	4		3 1	1 4	3	0	0 0	33.5 50.50
	.25 2.75	2	1.75		0.75 -		8.75	0	0	0	-	0 0.5	0	2	0	3 0	1 2	2	-	0 -1	11.5 20.25
13179258	2 3		3	2.25	2.5	2	17.5	2	1.5	0.5	0.5	1 1	2	4	4	3 1	1 3.5	3		0 -0.25	29.25 46.75
15332093	2 2.5		1	3	2.5	2.00	15.5	2	3	1	0	2 1	4	2	4 2	2.5 1	1 2.5	1		0 0	29 44.50
	1.5 2.25	3	3		2.25	2	17	2	3	1	0	2 1	1	2		2 1	1 1.5	2	2	1 0	26.5 43.50
14782165	2 3	3	2.25	1.75	1.5	2.00	15.5	1	0.5	1	0	2 1	5	3	3	2 1	1 2	4	2	1 0	29.5 45.00
15398862	2 2.5		1.25	0.75	0 -		8.5														0 8.50
15277475	2 3		3	2.25	2.5 -		13.75	2	4	1		2 1	1	2	1	3 1	1 2	1	1.5	0 0	23.5 37.25
	1.5 2.75	3	3	3	3	2.00	18.25	2	3.5	1	1.5	2 1	5	3	4	3 1	1 4	4	2	1 0	39 57.25
15120548	2 3	2.5	3	2.25	3	2	17.75	2	3.5	1		2 1	3	3		1.5 1	1 1.5	4	0	1 0	27.5 45.25
	.75 2.5	2	1	1	2.5 -		10.75	2	3.5	1		2 0.5		2		0.5 1	1 0.5	4	0	1 0	23 33.75
11842095	2 2.75		2.25	2.25	3	2	16.75	2	2	1		2 1	4	2		1 0	1 2	3.5		0 0	29.5 46.25
14939688	2 3	2	2	1.75	1.5 -		12.25	2	0	1	0	0 1	4.5	2.5	4	2 0	1 2	3	1.5	0 0	24.5 36.75
14177974 15373214	1.5 3	1.75	1.5	0.25 2.25	0 - 1.75	2.00	6.5 12.25	2				2 1	3	3	3	2 0	1 2			4	0 6.50 I
15373214	2 1.75		1.5	2.25	2.5	2.00	16.75	1.5	2.5	1	2	1 1	5	2		2.5 0	1 1.5	3	1	0 0	27 43.75
13844350	2 1.75	2.5	2.75	2.25	3	2.00	17	2	4	1	2	2 1	5	2.5		2 0	1 1.5	2	2	1 0	29.5 46.50
14817823	2 3	0	0	0	0 -	2.00	5	-		-		- '	-	2.0		- 1	-11	-	-	•	0 5.00
15201975 -	2.5	0	1.75	2.5	1.75	2.00	10.5	2	1.5	1	1.5	2 1	4	2	2	3 0	1 2	3	2	1 0	29 39.50
	.75 3	3	3		2.75 -		16.5	1.5	2	1	0	1 1	5	2.5	4 1	1.5 1	0 2	4	2	0 0	28.5 45.00
15011301	2 3	0.5	2.25	1.75	2.25 -		11.75	2	4	1	1.5	1 1	3.5	2	2 1	1.5 0	1 1	1.5	2	1 0	26 37.75
14905007	2 2.75	2	1.75	0.75	0.75	2.00	12	1	0	0	0	0 0.5	0	2	0	1 0	0 0.5	1	1	0 0	7 19.00
15280035 1	.75 2.75	1.75	2.25	2.25	2	2	14.75	2	2	1	1.5	2 1	3.5	1.5	0	1 1	1 2	1.5	2	1 0	24 38.75
15275833	2 0	0	0	0	0 -		2														0 2.00
15181435	1 1.25	2	0	0	0 -		4.25														0 4.25
15197940	2 3	2.75	2.5	3	3	1.5	17.75	2	2.5	1	1.5	2 1	5	2.5	4	2 1	1 3	4	2	1 0	35.5 53.25
15181370	2 2.5	1.25	1.25	0.5	0 -		7.5														0 7.50
15480770	2 3	2.5	3	2.75	3	2.00	18.25	2	4	1	2 1.	1.5 1	5	4	4	3 1	1 4	3	2	1 0	39.5 57.75
14746790	2 2.75	0	0	0	0 -	2.00	4.75 15.75		4		2	2 1		2	2	1	1	4		1 0	0 4.75 31.5 47.25
	2 0.75		2.5	2.5	0 -	2.00	15.75 3.75	2	4	1	2	2 1	4	2	2	1 1	1 2.5	4	1	1 0	31.5 47.25 0 3.75
15360311	2 0.75	0	0	1 2	0 - 3	2.00	3.75 18	2	4	1	2	2 1	5	3	4	1 1	1 1.5	4	1	1 0	0 3.75 0 34.5 52.50
15371737	2 3	3	1.75		2.75	2.00	17.25	2	3	1		2 1	5	2.5		1 1	1 1.5	3	2	1 0	31.5 48.75
14900002	2 3	3	3		2.75	2.00	17.25	2	4	1		1.5 1	5	3	3	1 1	1 1	3.5	1	1 0	32 50.00
14057531	2 2.5		0	0	0 -	-	5	-			- "	- '	-		-	1 1		0.0			0 5.00
15111447	2 2.75	3	3	3	3	2.00	18.75	2	4	1	2 1.	1.5 1	4.5	3.5	2 1	1.5 1	1 3	4	2	1 0	35 53.75
15073213	2 0.75		0.75		0.75 -		7	0	0	0		0 0.5		2	0	1 0	0 2	1	1.5	1 0	9 16.00
15111191	2 3	0.5	0	0	0 -		5.5					-									0 5.50
14914933	2 3	3	3	3	3	2.00	19	2	4	1	2 1.	1.5 1	5	3.5	4	1 1	1 2.5	3	2	1 0	35.5 54.50
11529567	2 2.75		2.5	2.5	2.5	2	16.75	2	3	1		2 1	4	3	3	2 1	1 3	4	2	0 0	33.5 50.25
	1.5 2.75	2.75	1	0.75	0 -		8.75														0 8.75
15425120	2 2.75	3	2.5	2.25	2.5	2.00	17	2	2	1	0 1.	1.5 1	3	2	2	1 1	1 2	3	0	1 0	23.5 40.50
15349471	2 0	0	0	0	0 -		2														0 2.00
11309596	2 3	3	3	3	3	2.00	19	2	4	1		1.5 1	5	2	3	1 0	1 2	4	2	1 0	32.5 51.50
15446947	2 2.5	3	2.75		2.75	1.5	17.5	1.5	4	1		2 1	5	1	4	3 1	0 3	3.5	2	1 -1	34 51.50
15156075	2 3		3	3	3	2.00	19	2	4	1	2 1.	1.5 1	5	3	4	1 1	1 3	3	2	1 0	35.5 54.50
15068037	2 1.5	0.75	0	0	0 -		4.25														0 4.25
14936034	2 3	3	3	2.75	3	2	18.75	2	4	1		2 0.5		3.5	4	1 1	1 3	4	2	1 0	37 55.75
	2 3	1.75	2	2.75	2.75	2.00	16.25 2	1.5	3.5	1	0	2 1	3	4	2	2 1	1 4	2	2	0 0	30 46.25
15788294							2														0 2.00
15391694	2		- 4	0																	0 5 50
15391694 15290630	2 2.5		1	0 -	-		5.5 8.25														0 5.50 0 8.25