

The crystal structure of semenovite¹

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Abstract

The crystal structure of semenovite, $(\text{Fe}^{2+}, \text{Mn}, \text{Zn}, \text{Ti})\text{RE}_2\text{Na}_{0-2}(\text{Ca}, \text{Na})_8(\text{Si}, \text{Be})_{20}(\text{O}, \text{OH}, \text{F})_{48}$, $Z = 2$, orthorhombic, $a = 13.879(5)$, $b = 13.835(5)$, $c = 9.942(6)$ Å, space group $Pm\bar{m}n$, has been determined by Patterson and Fourier methods. The X-ray diffraction data were collected from a twin crystal by a Philips *PW 1100* diffractometer. The refinement was carried out taking into account the average of the chemical analyses made on a number of samples (final conventional R factor = 0.05 for 1366 independent reflections).

The structure consists of tetrahedral layers parallel to (001), superposed at intervals of $c/2$ and connected by cation polyhedra (RE, Na, Ca-antiprisms and Fe, Mn-octahedra).

The {110} twinning, always present and responsible for the tetragonal pseudosymmetry, is explained on structural grounds.

The structure of semenovite is related to the structures of meliphanite, leucophanite, gadolinite, nordite, and hellandite; aminoffite, which has a marked resemblance both in the stoichiometric unit and lattice parameters, shows little similarity with semenovite in regard to the crystal structure.

Introduction

Semenovite, a new mineral from the Ilimaussaq alkaline intrusion (south Greenland), was described by Petersen and Rønsbo (1972), who reported its preliminary chemical and physical properties. The stoichiometric unit $(\text{RE}, \text{Ca}, \text{Mn}, \text{Na})_{12} [\text{Be}, \text{Si}(\text{F}, \text{OH}, \text{O})]_8(\text{Si}_3\text{O}_{10})_4 \cdot \text{H}_2\text{O}$ was calculated from microchemical analyses, taking also into account the marked analogies with aminoffite, $\text{Ca}_{12}(\text{BeOH})_8\text{Si}_{12}\text{O}_{40}$, tetragonal (Coda *et al.*, 1967). By X-ray diffraction semenovite showed a tetragonal lattice: $a = 13.866$, $c = 9.892$ Å ($Z = 2$), analogous to that of aminoffite except for $a_{\text{semen}} = \sqrt{2} a_{\text{aminof}}$. However, when examined in oriented thin sections by means of the universal stage, semenovite appeared biaxial with the axial plane parallel to (010) and X parallel to [001] ($\alpha = 1.595$, $\beta = \gamma = 1.614$, $2V = 55^\circ$). The

mineral showed an intricate mimetic interpenetration twin after {110}, with composition plane (120).

The crystal structure analysis has been undertaken to clarify the structural relationships with aminoffite, which is so similar in many aspects, and eventually to explain, on structural grounds, the kind of twinning responsible for the apparent tetragonal symmetry conflicting with its optical properties.

Experimental

A first set of X-ray intensities was collected with a Philips *PW 1100* single-crystal automatic diffractometer using graphite-monochromatized $\text{MoK}\alpha$ radiation. The Laue symmetry was $4/m\bar{m}m$ and the sole systematic absences ($hk0$ with $h + k$ odd) were consistent only with space group $P4/nmm$. Several attempts to solve the crystal structure were unsuccessful. One of these attempts was based on the hypothesis of a twinned crystal structurally related to aminoffite.

Several more fragments were then examined by X-ray diffraction, since the tetragonal symmetry could

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Table 2. Observed and calculated structure factors.

Note: The reflections marked by an asterisk were considered as unobserved.

H	K	L	/Fo/	/Fc/	H	K	L	/Fo/	/Fc/	H	K	L	/Fo/	/Fc/
2	0	0	44.4	-26.1	3	5	0	37.0	-13.4	10	10	0	243.9	-243.2
4	0	0	19.0	-1.8	5	5	0	66.5	-74.2	12	10	0	34.3	-35.6
6	0	0	236.3	21.4	7	5	0	55.9	-51.5	14	10	0	43.4	38.5
8	0	0	391.8	384.6	9	5	0	69.5	77.1	16	10	0	14.6	-25.8
10	0	0	122.8	115.3	11	5	0	56.1	-56.8	1	11	0	9.6	3.4
12	0	0	90.5	75.5	13	5	0	19.2	-23.0	3	11	0	10.7	3.4
14	0	0	265.2	261.1	15	5	0	43.6	41.7	5	11	0	53.8	-54.4
16	0	0	31.2	24.3	17	5	0	16.3	-15.5	7	11	0	112.6	116.0
18	0	0	45.7	-40.9	0	6	0	292.0	324.1	9	11	0	0.	16.8
1	1	0	33.9	49.5	2	6	0	57.4	-53.0	11	11	0	109.5	-110.7
3	1	0	122.7	-133.2	4	6	0	171.0	-174.8	13	11	0	0.	10.6
5	1	0	12.0	-24.3	6	6	0	284.7	290.2	15	11	0	69.2	58.5
7	1	0	62.7	50.3	8	6	0	33.3	36.4	0	12	0	164.4	175.7
9	1	0	43.7	49.0	10	6	0	19.9	-11.6	2	12	0	47.8	-47.7
11	1	0	85.2	-37.5	12	6	0	57.6	-61.0	4	12	0	28.2	-27.5
13	1	0	-2.6	-74.0	14	6	0	155.1	151.7	6	12	0	50.8	54.2
15	1	0	151.9	149.0	16	6	0	19.1	5.7	8	12	0	28.4	29.8
17	1	0	76.3	-73.3	18	6	0	38.9	-34.1	10	12	0	19.4	-16.8
19	1	0	27.4	-21.0	1	7	0	226.3	234.9	12	12	0	13.6	7.5
0	2	0	123.2	156.1	3	7	0	367.9	-357.7	14	12	0	40.9	36.3
2	2	0	5.6	-5.3	5	7	0	107.9	-110.0	1	13	0	78.5	80.2
4	2	0	144.9	-171.0	7	7	0	45.3	-38.8	3	13	0	93.2	-67.9
6	2	0	30.8	39.5	9	7	0	134.9	140.8	5	13	0	47.9	50.2
8	2	0	41.7	47.4	11	7	0	145.2	-150.8	7	13	0	63.4	56.9
10	2	0	79.0	-32.0	13	7	0	15.2	-4.8	9	13	0	53.8	48.2
12	2	0	37.5	36.4	15	7	0	104.4	103.6	11	13	0	74.2	-70.0
14	2	0	13.5	13.7	17	7	0	126.6	-125.6	13	13	0	11.4	-4.3
16	2	0	35.8	-35.9	0	8	0	218.3	236.8	0	14	0	301.0	300.6
18	2	0	0.	4.6	2	8	0	64.1	66.8	2	14	0	7.6	-4.3
1	3	0	21.8	8.9	4	8	0	15.5	-10.1	4	14	0	68.5	-63.3
3	3	0	46.2	-52.5	6	8	0	169.7	182.4	6	14	0	102.0	97.3
5	3	0	223.0	-236.8	8	8	0	92.0	98.1	8	14	0	89.1	86.5
7	3	0	372.4	364.2	10	8	0	20.8	17.6	10	14	0	26.5	33.5
9	3	0	76.9	-79.3	12	8	0	33.4	35.8	12	14	0	0.	-7.2
11	3	0	230.9	-233.2	14	8	0	67.9	73.3	1	15	0	0.	-20.8
13	3	0	28.0	37.8	16	8	0	40.8	44.4	3	15	0	29.6	-23.4
15	3	0	92.8	92.0	1	9	0	65.1	-67.5	5	15	0	66.8	-54.9
17	3	0	23.7	-19.4	3	9	0	89.4	-94.5	15	0	0	17.3	20.3
19	3	0	113.4	-107.2	5	9	0	194.3	-201.0	0	0	0	8.3	-12.6
0	4	0	28.1	38.1	7	9	0	0.	-14.9	0	0	0	48.2	-41.6
2	4	0	103.6	-115.4	9	9	0	34.6	-33.2	0	0	0	110.9	108.5
4	4	0	273.1	-265.3	11	9	0	130.5	-131.5	2	16	0	0.	9.4
6	4	0	123.8	126.3	13	9	0	21.7	-5.5	4	16	0	44.2	-45.8
8	4	0	150.4	158.6	15	9	0	16.8	-34.2	6	16	0	34.1	37.0
10	4	0	326.9	-343.4	17	9	0	33.5	-31.3	8	16	0	93.2	89.9
12	4	0	19.1	-21.7	0	10	0	21.1	-10.8	10	16	0	84.7	-78.3
14	4	0	24.8	23.0	2	10	0	3.5	-5.6	1	17	0	19.3	-11.1
16	4	0	17.3	9.4	4	10	0	327.6	-334.9	3	17	0	55.1	-47.9
18	4	0	61.3	-63.0	6	10	0	113.7	113.6	5	17	0	113.5	-110.2
1	5	0	14.1	-2.3	8	10	0	69.8	68.4	7	17	0	82.4	76.6

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
9	17	0	45.5	-41.7	7	4	1	125.1	129.6	10	9	1	42.9	-41.8
0	18	0	30.1	33.1	9	4	1	0.	12.2	12	9	1	35.0	-34.2
2	18	0	32.0	-29.0	11	4	1	77.7	-80.3	14	9	1	22.9	31.1
4	18	0	65.0	-60.3	13	4	1	42.8	43.0	16	9	1*	11.7	-4.8
6	18	0	35.5	35.2	15	4	1	72.6	71.3	1	10	1	64.5	66.8
1	19	0	51.0	47.2	17	4	1	25.7	-38.9	3	10	1	77.0	-74.6
3	19	0	10.1	-13.5	19	4	1	28.3	-29.4	5	10	1	23.1	-14.3
1	0	1	127.5	127.1	0	5	1	62.5	58.1	7	10	1	02.7	81.4
3	0	1	90.0	-76.6	2	5	1	15.6	-20.4	9	10	1	0.	7.2
5	0	1	37.4	-29.0	4	5	1	91.3	-93.5	11	10	1	64.4	-68.4
7	0	1	147.8	138.1	6	5	1	34.2	33.2	13	10	1	30.0	29.2
9	0	1	21.0	16.6	8	5	1	35.6	36.7	15	10	1	57.1	55.1
11	0	1	71.4	-67.1	10	5	1	62.8	-70.2	1	11	1	89.7	86.6
13	0	1	37.1	32.1	12	5	1	15.5	-23.3	2	11	1	43.2	-42.6
15	0	1	73.2	73.7	14	5	1	42.1	45.7	4	11	1	113.0	-115.3
17	0	1	39.0	-26.6	16	5	1	13.3	-7.4	6	11	1	29.4	29.9
19	0	1	24.1	-37.4	18	5	1	40.3	-45.1	8	11	1	55.6	56.8
0	1	1	93.6	79.1	1	6	1	57.3	61.5	10	11	1	84.4	-85.6
2	1	1	41.7	-47.2	3	6	1	30.4	-28.3	12	11	1	41.2	-45.1
4	1	1	124.1	-119.7	5	6	1	4.8	-2.6	14	11	1	48.1	53.6
6	1	1	47.6	45.3	7	6	1	84.0	85.1	16	11	1*	0.	0.5
8	1	1	43.5	44.4	9	6	1	11.0	9.2	1	12	1	30.5	36.0
10	1	1	84.5	-30.7	11	6	1	45.9	-43.7	3	12	1	18.1	-26.0
12	1	1	43.7	-40.3	13	6	1	27.7	31.4	5	12	1	21.3	-18.9
14	1	1	54.4	57.6	15	6	1	46.2	46.2	7	12	1	53.4	56.2
16	1	1	0.	-0.7	17	6	1	18.4	-18.0	9	12	1	0.	-0.7
18	1	1	56.6	-52.7	0	7	1	116.0	111.7	11	12	1	22.2	-29.5
1	2	1	86.5	83.1	2	7	1	35.8	-35.7	13	12	1	0.	18.8
3	2	1	56.4	-51.3	4	7	1	138.0	-132.1	15	12	1	12.7	26.2
5	2	1	12.9	15.6	6	7	1	40.2	40.8	0	13	1	31.8	36.7
7	2	1	88.4	80.2	8	7	1	70.8	71.1	2	13	1	0.	-14.5
9	2	1	0.	2.9	10	7	1	82.2	-85.6	4	13	1	59.9	-62.7
11	2	1	41.8	-44.7	12	7	1	47.3	-46.2	6	13	1	21.4	21.1
13	2	1	47.0	45.0	14	7	1	54.8	58.3	8	13	1	32.0	32.0
15	2	1	45.1	47.5	16	7	1	0.	11.2	10	13	1	43.0	-48.2
17	2	1	32.8	-29.9	18	7	1	65.2	-67.2	12	13	1	28.6	-23.3
19	2	1*	0.	-11.7	1	8	1	81.5	84.0	14	13	1	31.1	33.2
0	3	1	190.9	87.3	3	8	1	81.5	-80.1	1	14	1	72.5	71.7
2	3	1	53.2	-51.7	5	8	1	11.9	-1.0	3	14	1	77.5	-77.7
4	3	1	110.7	-109.1	7	8	1	96.8	99.1	5	14	1	20.6	-24.9
6	3	1	22.5	20.8	9	8	1*	6.5	3.3	7	14	1	93.2	92.5
8	3	1	46.4	48.7	11	8	1	55.4	-62.6	9	14	1	17.3	1.7
10	3	1	66.7	-71.9	13	8	1	31.6	33.2	11	14	1	61.8	-61.8
12	3	1	59.9	-53.9	15	8	1	53.2	54.1	13	14	1	33.2	27.0
14	3	1	53.0	62.4	17	8	1	39.2	-31.8	0	15	1	58.6	56.6
16	3	1	9.4	3.7	0	9	1	27.8	26.5	2	15	1	24.4	-26.3
18	3	1	66.6	-63.0	2	9	1	38.1	-36.3	4	15	1	48.4	-51.6
1	4	1	125.2	116.9	4	9	1	50.4	-54.8	6	15	1	0.	17.8
3	4	1	99.9	-83.1	6	9	1	0.	6.5	8	15	1	18.3	30.4
5	4	1	18.0	-12.4	8	9	1	8.4	10.3	10	15	1	36.5	-35.5

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
12	15	1	35.0	-31.5	3	3	2	441.2	-425.0	6	8	2	63.7	-57.8
1	16	1	29.3	33.2	5	3	2	25.5	-27.9	8	8	2	51.2	50.8
3	16	1	23.1	-23.4	7	3	2	195.8	205.6	10	8	2	0.	-32.2
5	16	1*	0.	4.7	9	3	2	0.	-6.7	12	8	2	86.3	-80.5
7	16	1	37.9	36.0	11	3	2	138.9	-140.5	14	8	2	17.9	22.1
9	16	1*	3.3	7.2	13	3	2	62.9	67.9	16	8	2	29.8	18.7
11	16	1	17.4	-20.0	15	3	2	92.2	92.4	1	9	2	99.8	105.5
0	17	1	59.3	66.2	17	3	2	92.8	-97.0	3	9	2	126.4	-130.4
2	17	1	0.	-17.4	19	3	2	0.	-2.7	5	9	2	55.8	52.1
4	17	1	73.9	-56.3	0	4	2	396.9	389.0	7	9	2	103.3	104.2
6	17	1	35.5	31.8	2	4	2	85.9	89.5	9	9	2	22.6	-20.4
8	17	1	36.2	40.2	4	4	2	106.2	-98.4	11	9	2	37.0	-32.5
1	1	1	41.6	45.2	6	4	2	103.7	115.2	13	9	2	37.5	39.5
3	18	1	38.0	-38.0	8	4	2	188.3	201.1	15	9	2	53.9	50.6
5	18	1	21.3	-14.7	10	4	2	68.2	68.4	17	9	2	31.6	-33.6
7	18	1	69.4	53.6	12	4	2	75.1	-77.2	0	10	2	313.6	320.5
0	19	1	31.0	18.9	14	4	2	167.7	172.2	2	10	2	17.1	18.5
2	19	1	12.8	-1.7	16	4	2	70.3	65.9	4	10	2	31.8	-28.1
4	19	1	29.5	-29.1	18	4	2	66.3	-68.4	6	10	2	107.9	105.8
0	0	2	46.8	-63.4	1	5	2	19.9	2.3	8	10	2	172.6	174.1
2	0	2	36.4	-40.9	3	5	2	123.4	-142.3	10	10	2	24.8	19.2
4	0	2	439.0	-412.2	5	5	2	37.7	-45.4	12	10	2	52.6	-53.9
6	0	2	109.9	95.4	7	5	2	12.2	46.9	14	10	2	154.8	151.9
8	0	2	160.7	152.1	9	5	2	77.2	-80.0	16	10	2	61.7	55.2
10	0	2	284.3	-279.5	11	5	2	50.8	-53.7	1	11	2	89.0	89.6
12	0	2	163.1	-165.0	13	5	2	0.	2.2	3	11	2	167.3	-169.9
14	0	2	84.0	85.1	15	5	2	7.0	-16.0	5	11	2	41.7	-44.6
16	0	2	24.8	25.1	17	5	2	17.2	-19.3	7	11	2	65.2	65.7
18	0	2	138.9	-135.3	0	6	2	124.7	115.8	9	11	2	8.9	-18.8
1	1	2	88.5	96.6	2	6	2	13.1	5.8	11	11	2	65.1	-66.5
3	1	2	249.9	-252.2	4	6	2	143.4	-152.0	13	11	2	0.	8.9
5	1	2	120.5	-121.7	6	6	2	17.1	-23.2	15	11	2	21.8	30.5
7	1	2	123.5	134.2	8	6	2	145.7	149.2	0	12	2	19.9	-2.5
9	1	2	80.9	-82.3	10	6	2	119.3	-125.9	2	12	2	54.6	52.4
11	1	2	112.4	-113.3	12	6	2	48.3	-46.9	4	12	2	4.4	-14.7
13	1	2	48.7	52.1	14	6	2	47.7	48.3	6	12	2	4.5	13.2
15	1	2	25.2	-19.0	16	6	2	22.8	14.0	8	12	2	66.5	62.7
17	1	2	15.5	-19.1	18	6	2	87.5	-80.9	10	12	2	21.1	-7.8
19	1	2	44.2	-40.3	1	7	2	68.0	64.3	12	12	2	28.1	-18.4
0	2	2	80.4	38.2	3	7	2	264.8	-270.7	14	12	2	40.4	33.3
2	2	2	95.3	96.3	5	7	2	134.1	-136.5	1	13	2	35.6	40.0
4	2	2	102.1	38.1	7	7	2	253.3	254.2	3	13	2	154.6	-155.7
6	2	2	43.1	46.1	9	7	2	127.0	-136.7	5	13	2	109.7	-109.8
8	2	2	104.1	117.5	11	7	2	180.3	-188.4	7	13	2	105.4	100.6
10	2	2	56.9	60.3	13	7	2	44.8	46.8	9	13	2	84.8	-81.3
12	2	2	44.6	-47.7	15	7	2	26.8	36.8	11	13	2	105.6	-100.7
14	2	2	82.0	77.0	17	7	2	36.0	-38.4	13	13	2	35.7	40.1
16	2	2	73.4	67.3	0	8	2	29.4	-10.4	0	14	2	10.7	14.8
18	2	2	39.7	-37.0	2	8	2	19.0	-4.0	2	14	2	0.	1.0
1	3	2	325.0	321.5	4	8	2	67.2	-67.1	4	14	2	93.5	-90.9

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
6	14	2	24.0	12.3	7	2	3	92.0	91.6	12	7	3	61.9	-65.5
8	14	2	82.9	81.9	9	2	3	5.5	-0.6	14	7	3	65.0	70.8
10	14	2	37.1	-36.0	11	2	3	47.4	-47.6	16	7	3	0.	-3.5
12	14	2	62.6	-58.5	13	2	3	37.7	38.5	1	8	3	75.4	78.0
1	15	2	45.6	47.1	15	2	3	38.1	42.3	3	8	3	61.8	-63.1
3	15	2	72.9	-71.3	17	2	3	30.9	-29.2	5	8	3	0.	-13.5
5	15	2	15.7	-0.1	0	3	3	79.5	65.9	7	8	3	94.1	96.6
7	15	2	49.3	43.6	2	3	3	9.7	-11.4	9	8	3	0.	6.6
9	15	2	0.	-8.5	4	3	3	116.6	-111.2	11	8	3	48.4	-57.8
11	15	2	38.9	-31.2	6	3	3	40.0	38.1	13	8	3	37.1	36.7
0	16	2	74.1	66.5	8	3	3	70.0	68.6	15	8	3	55.6	55.3
2	16	2	0.	0.9	10	3	3	74.8	-79.6	17	8	3	32.2	-30.0
4	16	2	14.3	-20.5	12	3	3	29.5	-29.1	0	9	3	19.9	24.3
6	16	2	36.9	41.7	14	3	3	47.4	46.7	2	9	3	13.0	-11.0
8	16	2	28.6	31.7	16	3	3	19.1	14.9	4	9	3	54.3	-55.4
10	16	2	17.4	7.3	18	3	3	50.5	-50.3	6	9	3	12.8	13.1
1	17	2	94.8	86.5	1	4	3	97.5	93.0	8	9	3	24.5	29.7
3	17	2	107.4	-98.8	3	4	3	86.6	-76.5	10	9	3	51.1	-49.3
5	17	2	26.9	16.1	5	4	3	40.9	-33.7	12	9	3	14.5	-12.4
7	17	2	79.6	72.8	7	4	3	133.8	133.9	14	9	3	8.9	25.0
9	17	2	4.6	10.4	9	4	3	17.0	7.0	16	9	3	16.0	-1.3
0	18	2	61.9	65.1	11	4	3	74.1	-75.4	1	10	3	72.4	70.4
2	18	2	25.1	25.3	13	4	3	41.8	40.5	3	10	3	42.8	-39.4
4	18	2	11.1	-14.1	15	4	3	61.2	62.8	5	10	3	30.3	-26.1
6	18	2	0.	17.5	17	4	3	18.1	-24.5	7	10	3	107.2	108.8
1	19	2	15.6	-9.3	0	5	3	76.5	67.3	9	10	3	0.	6.7
3	19	2	74.7	-65.2	2	5	3	56.4	-56.2	11	10	3	52.0	-53.5
1	0	3	109.7	104.0	4	5	3	63.3	-87.3	13	10	3	33.3	34.3
3	0	3	100.3	-91.9	6	5	3	29.6	29.9	15	10	3	51.2	50.5
5	0	3	11.5	-1.9	8	5	3	28.8	25.9	0	11	3	95.9	100.3
7	0	3	91.4	85.5	10	5	3	65.5	-70.9	2	11	3	0.	-9.9
9	0	3	34.3	32.9	12	5	3	29.7	-29.9	4	11	3	100.6	-101.9
11	0	3	93.1	-81.3	14	5	3	41.2	43.2	6	11	3	59.0	57.6
13	0	3	29.1	26.4	16	5	3	12.3	-9.1	8	11	3	64.3	65.8
15	0	3	79.8	81.4	18	5	3	40.1	-42.1	10	11	3	63.3	-63.6
17	0	3	49.5	-45.9	1	6	3	56.3	56.1	12	11	3	29.0	-29.2
19	0	3	36.8	-32.0	3	6	3	47.9	-43.6	14	11	3	55.4	58.8
0	1	3	108.0	86.6	5	6	3	9.1	7.2	1	12	3	34.1	39.4
2	1	3	74.3	-71.2	7	6	3	52.2	55.7	3	12	3	32.5	-33.6
4	1	3	119.3	-114.1	9	6	3	10.0	14.0	5	12	3	9.6	7.0
6	1	3	26.4	25.8	11	6	3	42.1	-46.9	7	12	3	38.7	41.7
8	1	3	36.6	28.5	13	6	3	0.	19.0	9	12	3	13.7	13.7
10	1	3	31.2	-34.6	15	6	3	59.8	57.8	11	12	3	33.2	-34.1
12	1	3	43.9	-44.3	17	6	3	36.5	-35.8	13	12	3	19.0	16.0
14	1	3	56.9	51.1	0	7	3	119.6	111.1	0	13	3	53.6	57.0
16	1	3	11.5	-7.7	2	7	3	59.3	-59.4	2	13	3	35.0	-36.8
18	1	3	59.6	-62.3	4	7	3	127.6	-124.3	4	13	3	50.6	-55.7
1	2	3	70.3	67.1	6	7	3	39.7	39.2	6	13	3	27.1	16.7
3	2	3	43.5	-39.7	8	7	3	43.9	42.8	8	13	3	0.	17.1
5	2	3	14.5	-5.4	10	7	3	68.8	-72.3	10	13	3	41.0	-39.7

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
12	13	3	29.5	-33.6	8	2	4	32.5	35.2	15	7	4	160.7	160.5
1	14	3	63.9	70.5	10	2	4	72.1	-73.8	17	7	4	42.7	-45.3
3	14	3	71.5	-73.1	12	2	4	17.7	15.3	0	8	4	186.2	197.3
5	14	3	0.	-8.5	14	2	4	20.4	18.1	2	8	4	0.	10.7
7	14	3	30.2	80.3	16	2	4	13.8	-1.3	4	8	4	26.9	-26.0
9	14	3	26.0	11.6	18	2	4	9.7	-11.7	6	8	4	94.4	101.5
11	14	3	67.6	-66.2	1	3	4	94.9	84.3	8	8	4	87.2	88.4
0	15	3	35.7	38.1	3	3	4	312.4	-291.4	10	8	4	0.	-16.4
2	15	3	16.2	-9.0	5	3	4	212.0	-218.0	12	8	4	17.7	26.5
4	15	3	62.6	-64.6	7	3	4	82.9	79.2	14	8	4	61.6	64.5
6	15	3	19.1	19.9	9	3	4	0.	-1.5	16	8	4	13.2	13.5
8	15	3	19.4	28.9	11	3	4	196.2	-199.6	1	9	4	29.6	-22.8
10	15	3	45.5	-40.8	13	3	4	0.	-2.3	3	9	4	49.6	-49.3
1	16	3	16.7	24.3	15	3	4	56.1	56.3	5	9	4	87.6	-87.9
3	16	3	11.9	-13.8	17	3	4	81.8	-84.3	7	9	4	36.7	39.9
5	16	3	10.3	-14.2	0	4	4	304.4	288.8	9	9	4	21.9	-23.5
7	16	3	47.3	42.7	2	4	4	59.7	-63.6	11	9	4	88.2	-77.9
9	16	3*	0.	2.1	4	4	4	298.2	-300.6	13	9	4	35.8	-29.4
0	17	3	48.3	55.0	6	4	4	85.5	87.4	15	9	4	44.7	41.3
2	17	3	14.8	-14.4	8	4	4	67.7	68.1	0	10	4	240.9	246.6
4	17	3	71.8	-70.6	10	4	4	125.3	-131.4	2	10	4	70.9	-73.2
6	17	3	19.0	26.3	12	4	4	41.3	-41.9	4	10	4	173.2	-172.4
8	17	3	41.5	43.7	14	4	4	49.8	52.2	6	10	4	68.3	69.0
1	18	3	46.2	40.9	16	4	4	37.9	-42.2	8	10	4	104.9	105.0
3	18	3	43.1	-44.3	18	4	4	63.7	-62.8	10	10	4	138.4	-138.0
5	18	3	0.	-17.8	1	5	4	33.0	-20.0	12	10	4	0.	-8.1
0	19	3	25.2	26.5	3	5	4	47.1	22.7	14	10	4	56.1	58.4
0	0	4	246.5	253.5	5	5	4	41.8	-46.3	1	11	4	14.9	24.3
2	0	4	28.6	20.2	7	5	4	6.6	12.9	3	11	4	78.0	-74.8
4	0	4	308.4	-291.2	9	5	4	34.7	38.4	5	11	4	104.0	-103.8
6	0	4	361.2	359.3	11	5	4	35.4	-40.8	7	11	4	25.7	26.8
8	0	4	175.5	169.8	13	5	4	31.6	-32.7	9	11	4	0.	21.2
10	0	4	153.8	-148.7	15	5	4	70.5	63.1	11	11	4	78.4	-74.9
12	0	4	51.3	-44.1	17	5	4	8.3	-13.7	13	11	4	21.8	-24.0
14	0	4	185.4	184.0	0	6	4	400.8	405.8	15	11	4	50.9	47.6
16	0	4	47.1	46.0	2	6	4	0.	6.5	0	12	4	79.7	82.2
18	0	4	35.8	-45.7	4	6	4	48.6	-44.1	2	12	4	15.8	-13.9
1	1	4	30.6	35.7	6	6	4	176.1	177.7	4	12	4	59.0	-57.7
3	1	4	91.8	-94.5	8	6	4	167.9	173.2	6	12	4	70.4	72.2
5	1	4	84.3	-86.4	10	6	4	51.0	-49.3	8	12	4	28.9	15.8
7	1	4	23.0	20.0	12	6	4	45.1	49.6	10	12	4	29.6	-35.1
9	1	4	68.1	66.9	14	6	4	119.4	121.7	12	12	4*	0.8	-0.2
11	1	4	123.6	-126.6	16	6	4	16.7	17.1	14	12	4	32.1	30.9
13	1	4	7.7	-5.2	1	7	4	99.3	98.6	1	13	4	72.1	75.3
15	1	4	71.1	67.3	3	7	4	79.0	-76.7	3	13	4	60.9	-51.7
17	1	4	36.1	-35.2	5	7	4	29.1	-27.5	5	13	4	26.6	-18.9
0	2	4	98.0	118.4	7	7	4	199.9	207.1	7	13	4	66.6	63.2
2	2	4	21.2	-22.4	9	7	4	28.4	28.8	9	13	4	47.1	43.7
4	2	4	74.3	-91.0	11	7	4	133.0	-133.9	11	13	4	72.7	-56.8
6	2	4	101.9	103.0	13	7	4	0.	4.5	13	13	4	23.6	26.6

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	14	4	148.3	138.8	13	2	5	29.0	32.5	5	8	5	28.2	-31.6
2	14	4	5.1	2.7	15	2	5	43.0	44.8	7	8	5	96.3	100.7
4	14	4	57.4	-59.2	17	2	5	32.1	-30.1	9	8	5	12.1	-2.9
6	14	4	120.8	116.8	0	3	5	76.2	70.8	11	8	5	48.5	-51.7
8	14	4	99.3	84.9	2	3	5	69.0	-67.3	13	8	5	45.6	39.8
10	14	4	57.7	-54.9	4	3	5	110.6	-105.8	15	8	5	36.7	33.6
12	14	4	0.	-10.1	6	3	5	0.	5.3	0	9	5	31.2	32.5
1	15	4	3.7	-14.7	8	3	5	25.1	17.2	2	9	5	23.1	-19.2
3	15	4	43.4	-43.9	10	3	5	56.6	-53.7	4	9	5	36.1	-40.5
5	15	4	55.4	-52.0	12	3	5	74.0	-74.5	6	9	5	7.7	15.7
7	15	4	0.	-13.2	14	3	5	49.8	49.0	8	9	5	12.8	20.1
9	15	4	16.9	8.7	16	3	5	11.3	0.0	10	9	5	20.5	-31.9
11	15	4	68.3	-64.6	1	4	5	99.8	96.3	12	9	5	30.2	-29.3
0	16	4	38.0	40.0	3	4	5	118.1	-111.8	14	9	5	31.4	33.7
2	16	4*	0.	-2.9	5	4	5	19.3	1.7	1	10	5	69.1	71.3
4	16	4	37.0	-39.1	7	4	5	86.5	83.1	3	10	5	74.7	-79.5
6	16	4	60.1	61.4	9	4	5	13.5	9.6	5	10	5	12.5	6.0
8	16	4	21.6	17.5	11	4	5	65.7	-67.0	7	10	5	58.6	62.9
1	17	4	13.8	11.5	13	4	5	27.9	21.7	9	10	5	22.9	10.4
3	17	4	90.6	-75.5	15	4	5	65.8	67.6	11	10	5	47.3	-49.6
5	17	4	74.4	-64.5	17	4	5	38.4	-46.4	13	10	5	19.6	16.1
7	17	4	27.7	26.7	0	5	5	46.5	47.8	15	10	5	56.9	50.0
0	18	4	81.5	74.2	2	5	5	45.7	-46.6	0	11	5	97.7	98.9
2	18	4	17.1	-5.7	4	5	5	75.9	-73.3	2	11	5	47.3	-47.4
4	18	4	57.8	-55.9	6	5	5	27.9	25.3	4	11	5	87.8	-33.0
1	0	5	64.9	65.9	8	5	5	27.3	24.7	6	11	5	33.2	30.8
3	0	5	53.5	-43.4	10	5	5	59.7	-63.7	8	11	5	32.8	35.9
5	0	5	30.0	-26.5	12	5	5	37.5	-38.4	10	11	5	50.7	-51.2
7	0	5	132.5	131.7	14	5	5	49.2	46.2	12	11	5	57.3	-56.0
9	0	5	0.	-0.0	16	5	5*	2.4	-4.2	14	11	5	54.6	55.0
11	0	5	77.8	-77.6	1	6	5	62.9	60.9	1	12	5	42.7	45.5
13	0	5	50.8	45.9	3	6	5	24.9	-23.2	3	12	5	17.5	-23.4
15	0	5	51.6	52.0	5	6	5	11.0	-19.6	5	12	5	18.8	11.7
17	0	5	10.5	-9.5	7	6	5	84.5	85.6	7	12	5	58.9	55.5
0	1	5	78.3	68.6	9	6	5	20.2	7.9	9	12	5	0.	9.9
2	1	5	9.3	-4.4	11	6	5	33.3	-34.6	11	12	5	8.7	-26.2
4	1	5	103.9	-98.7	13	6	5	41.2	38.4	13	12	5	20.7	24.3
6	1	5	30.5	24.0	15	6	5	27.6	33.2	0	13	5	30.2	33.7
8	1	5	69.6	65.2	17	6	5	19.5	-10.2	2	13	5	0.	5.2
10	1	5	74.2	-71.3	0	7	5	59.1	57.3	4	13	5	50.3	-52.5
12	1	5	21.8	-20.4	2	7	5	0.	-0.7	6	13	5	10.6	16.0
14	1	5	48.5	49.2	4	7	5	96.9	-97.2	8	13	5	36.6	46.1
16	1	5	0.	-0.9	6	7	5	43.4	43.3	10	13	5	38.9	-44.8
18	1	5	43.4	-44.3	8	7	5	86.5	85.6	12	13	5	11.2	-8.7
1	2	5	60.8	59.3	10	7	5	87.9	-89.4	1	14	5	56.5	55.8
3	2	5	59.3	-57.4	12	7	5	22.5	-27.6	3	14	5	44.1	-48.8
5	2	5	17.4	12.8	14	7	5	62.3	60.5	5	14	5	16.7	-30.6
7	2	5	31.3	30.2	16	7	5	0.	16.1	7	14	5	98.9	101.9
9	2	5	0.	-9.3	1	8	5	69.1	72.1	9	14	5	13.6	-6.8
11	2	5	43.5	-45.2	3	8	5	57.4	-57.6	11	14	5	57.3	-59.5

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	15	5	29.2	36.4	17	3	6	66.3	-59.6	15	9	6	20.9	10.0
2	15	5	15.9	-4.6	0	4	6	257.1	251.9	0	10	6	134.4	137.4
4	15	5	55.4	-56.2	2	4	6	48.3	50.5	2	10	6	31.6	37.4
6	15	5	13.2	12.1	4	4	6	67.3	66.6	4	10	6	59.8	-64.7
8	15	5	29.2	35.5	6	4	6	156.6	158.1	6	10	6	116.9	118.7
10	15	5	43.7	-37.2	8	4	6	200.6	206.3	8	10	6	100.2	98.5
1	16	5	29.7	21.8	10	4	6	13.1	-0.3	10	10	6	13.8	-5.8
3	16	5	36.3	-37.3	12	4	6	43.8	-45.0	12	10	6	73.3	-72.2
5	16	5*	6.9	-0.6	14	4	6	152.6	151.0	14	10	6	133.4	126.5
7	16	5	28.5	22.0	16	4	6	114.6	107.3	1	11	6	38.4	33.7
0	17	5	66.8	63.3	1	5	6	28.4	20.7	3	11	6	121.1	-124.2
2	17	5	34.1	-34.4	3	5	6	128.6	-136.4	5	11	6	6.2	4.8
4	17	5	53.0	-58.7	5	5	6	47.9	-48.5	7	11	6	73.6	71.9
6	17	5	15.3	22.4	7	5	6	21.7	12.6	9	11	6	25.3	-32.5
1	18	5	41.4	39.6	9	5	6	46.8	-47.9	11	11	6	87.9	-89.7
0	0	6	317.2	300.5	11	5	6	55.2	-53.3	13	11	6	0.	12.4
2	0	6	51.5	-54.0	13	5	6	16.1	11.8	0	12	6	58.1	58.5
4	0	6	253.3	-253.3	15	5	6	26.9	-24.2	2	12	6	36.6	32.9
6	0	6	106.9	-109.1	0	6	6	47.5	-42.7	4	12	6	17.4	10.5
8	0	6	193.5	182.9	2	6	6	17.5	21.7	6	12	6	0.	3.3
10	0	6	136.1	-131.6	4	6	6	173.9	-176.7	8	12	6	79.5	72.2
12	0	6	54.7	-55.3	6	6	6	33.0	31.4	10	12	6	15.2	2.7
14	0	6	42.5	48.5	8	6	6	57.6	56.2	12	12	6*	9.7	-0.6
16	0	6	18.1	-20.8	10	6	6	95.0	-95.5	1	13	6	12.0	5.9
1	1	6	48.2	51.1	12	6	6	86.8	-86.6	3	13	6	133.2	-130.3
3	1	6	142.5	-145.9	14	6	6	51.7	48.3	5	13	6	74.4	-73.9
5	1	6	31.0	-85.6	16	6	6	18.5	9.0	7	13	6	82.4	87.5
7	1	6	142.6	145.2	1	7	6	165.0	169.2	9	13	6	84.4	-84.3
9	1	6	98.8	-88.9	3	7	6	214.1	-214.6	11	13	6	100.7	-94.7
11	1	6	71.6	-69.5	5	7	6	137.3	-139.1	0	14	6	54.7	54.1
13	1	6	9.4	14.8	7	7	6	130.4	131.3	2	14	6	0.	-4.3
15	1	6	21.3	16.1	9	7	6	21.9	-14.5	4	14	6	108.3	-110.0
17	1	6	35.2	-30.9	11	7	6	96.8	-99.4	6	14	6	37.3	-33.4
0	2	6	50.6	68.1	13	7	6	75.3	71.6	8	14	6	60.0	52.1
2	2	6	26.5	29.9	15	7	6	15.3	-9.4	10	14	6	15.4	-37.2
4	2	6	12.3	-11.0	0	8	6	16.3	-5.9	1	15	6	49.5	44.4
6	2	6	22.8	-18.9	2	8	6	29.4	27.0	3	15	6	42.1	-39.4
8	2	6	59.0	50.5	4	8	6	57.3	-47.1	5	15	6	0.	-1.4
10	2	6	43.6	33.8	6	8	6	19.7	-12.7	7	15	6	67.2	65.4
12	2	6	51.3	-51.2	8	8	6	56.9	57.8	9	15	6	10.2	-14.3
14	2	6	50.3	57.2	10	8	6	19.9	-22.1	0	16	6	103.3	98.5
16	2	6	28.4	20.4	12	8	6	49.3	-50.0	2	16	6	15.5	-12.2
1	3	6	127.0	128.3	14	8	6	0.	18.7	4	16	6	0.	4.0
3	3	6	270.8	-263.7	1	9	6	93.9	94.8	6	16	5*	0.	6.3
5	3	6	30.9	21.6	3	9	6	116.7	-122.0	1	17	6	54.7	53.5
7	3	6	192.9	192.6	5	9	6	18.8	13.5	3	17	6	78.2	-78.6
9	3	6	63.6	-57.8	7	9	6	58.2	54.9	1	0	7	79.5	76.5
11	3	6	142.0	-141.4	9	9	6	13.0	-1.2	3	0	7	74.4	-74.9
13	3	6	37.9	43.1	11	9	6	46.6	-40.0	5	0	7	0.	-12.5
15	3	6	97.5	96.7	13	9	6	55.7	51.0	7	0	7	60.1	62.1

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
9	0	7	32.3	27.9	7	6	7	38.1	36.9	4	13	7	44.7	-47.8
11	0	7	52.0	-57.3	9	6	7	9.8	12.5	6	13	7	17.5	21.9
13	0	7	20.5	4.3	11	6	7	45.8	-53.1	8	13	7	18.9	6.9
15	0	7	75.0	71.0	13	6	7	22.5	8.0	10	13	7	35.6	-28.8
0	1	7	75.1	70.1	15	6	7	48.7	50.2	1	14	7	45.1	55.7
2	1	7	56.3	-56.4	0	7	7	107.5	105.7	3	14	7	73.2	-72.9
4	1	7	84.1	-83.9	2	7	7	65.7	-60.4	5	14	7	0.	-12.8
6	1	7	46.8	41.3	4	7	7	102.1	-101.7	7	14	7	49.8	50.5
8	1	7	9.0	17.8	6	7	7	24.0	22.5	9	14	7	18.5	11.1
10	1	7	57.8	-61.5	8	7	7	26.9	28.0	0	15	7	40.8	44.9
12	1	7	46.3	-49.4	10	7	7	56.5	-53.7	2	15	7	22.2	-26.8
14	1	7	55.7	49.2	12	7	7	52.7	-56.0	4	15	7	40.6	-43.3
16	1	7	0.	-5.6	14	7	7	37.4	43.7	6	15	7	17.3	15.6
1	2	7	54.6	57.5	1	8	7	53.0	55.3	1	16	7	30.2	25.9
3	2	7	32.5	-31.5	3	8	7	59.3	-60.0	3	16	7	7.3	-1.3
5	2	7	20.3	-12.4	5	8	7	4.6	3.2	5	16	7	11.4	-10.7
7	2	7	71.9	74.9	7	8	7	62.6	68.8	0	0	8	361.5	353.8
9	2	7*	0.	9.1	9	8	7	0.	8.8	2	0	8	23.3	-4.9
11	2	7	35.7	-40.9	11	8	7	56.9	-56.9	4	0	8	68.9	-67.2
13	2	7	40.3	36.8	13	8	7	8.2	19.8	6	0	8	221.2	229.0
15	2	7	39.7	37.6	0	9	7	25.5	25.3	8	0	8	151.2	152.1
0	3	7	57.6	55.9	2	9	7	19.0	-9.5	10	0	8	45.7	-40.4
2	3	7	0.	2.9	4	9	7	51.3	-54.8	12	0	8	13.3	-6.9
4	3	7	73.7	-76.1	6	9	7	10.5	16.2	14	0	8	162.4	155.9
6	3	7	42.7	39.1	8	9	7	21.4	24.1	1	1	8	40.9	41.5
8	3	7	65.4	65.2	10	9	7	43.3	-45.0	3	1	8	61.6	-61.5
10	3	7	70.4	-67.9	12	9	7	0.	-10.4	5	1	8	35.1	-38.4
12	3	7	0.	-9.3	14	9	7	15.4	20.9	7	1	8	27.1	29.0
14	3	7	36.7	45.9	1	10	7	50.5	47.9	9	1	8	42.5	39.6
16	3	7	17.7	12.8	3	10	7	24.3	-26.1	11	1	8	62.8	-66.7
1	4	7	77.8	70.7	5	10	7	28.1	-30.1	13	1	8	21.2	-14.8
3	4	7	40.7	-32.9	7	10	7	84.5	88.0	15	1	8	77.1	72.0
5	4	7	34.7	-29.3	9	10	7	20.4	4.2	0	2	8	103.8	111.4
7	4	7	115.9	115.7	11	10	7	44.9	-51.3	2	2	8*	7.4	-1.4
9	4	7	18.8	6.8	13	10	7	28.5	36.2	4	2	8	61.7	-44.5
11	4	7	50.0	-60.3	0	11	7	64.7	69.4	6	2	8	75.6	76.3
13	4	7	48.8	42.7	2	11	7	21.0	-11.4	8	2	8	52.9	55.0
15	4	7	50.5	52.5	4	11	7	78.8	-79.7	10	2	8	56.0	-52.1
0	5	7	65.4	64.2	6	11	7	37.0	37.0	12	2	8	22.0	22.5
2	5	7	18.6	-17.9	8	11	7	56.8	60.7	14	2	8	30.0	29.8
4	5	7	77.4	-81.2	10	11	7	73.4	-71.8	1	3	8	58.4	55.7
6	5	7	29.5	30.4	12	11	7	25.3	-13.6	3	3	8	99.1	-96.4
8	5	7	30.5	31.1	1	12	7	28.0	30.7	5	3	8	129.8	-134.7
10	5	7	52.4	-52.3	3	12	7	26.5	-30.9	7	3	8	119.5	121.0
12	5	7	8.0	-14.0	5	12	7	15.6	-18.7	9	3	8	11.1	-2.4
14	5	7	40.5	34.9	7	12	7	40.9	35.0	11	3	8	119.9	-121.3
16	5	7*	0.	-7.5	9	12	7	20.8	4.7	13	3	8	27.3	13.2
1	6	7	30.6	34.1	11	12	7	4.6	-26.5	15	3	8	57.3	55.5
3	6	7	49.0	-51.5	0	13	7	44.7	49.6	0	4	8	99.5	100.7
5	6	7	0.	6.2	2	13	7	35.9	-37.1	2	4	8	43.0	-49.3

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
4	4	8	211.3	-212.4	1	11	8	34.9	23.8	8	3	9	4.5	20.6
6	4	8	38.6	38.4	3	11	8	40.1	-33.3	10	3	9	48.0	-42.1
8	4	8	52.2	51.6	5	11	8	64.9	-66.3	12	3	9	63.6	-54.7
10	4	8	132.8	-133.5	7	11	8	39.5	43.1	14	3	9	44.7	44.2
12	4	8	31.7	-29.4	9	11	8	14.6	18.5	1	4	9	61.9	63.0
14	4	8	29.0	24.3	11	11	8	60.0	-56.7	3	4	9	75.6	-75.9
1	5	8	17.6	-3.1	0	12	8	75.4	73.4	5	4	9	0.	3.0
3	5	8	36.9	-4.4	2	12	8	17.2	-17.7	7	4	9	66.6	67.0
5	5	8	31.5	-33.1	4	12	8	48.8	-44.3	9	4	9	12.8	7.8
7	5	8	1.0	8.3	6	12	8	47.6	48.7	11	4	9	57.7	-56.6
9	5	8	35.9	31.2	8	12	8	24.8	16.8	13	4	9	21.4	20.7
11	5	8	56.2	-44.3	10	12	8	28.7	-27.6	0	5	9	39.8	39.0
13	5	8	21.1	-14.7	1	13	8	66.4	65.4	2	5	9	21.8	-19.6
15	5	8	49.4	39.0	3	13	8	40.8	-45.3	4	5	9	61.3	-62.8
0	6	8	242.4	241.1	5	13	8*	0.	-2.8	6	5	9	11.4	14.0
2	6	8	23.4	-10.3	7	13	8	58.3	51.6	8	5	9	35.6	31.5
4	6	8	65.8	-66.9	9	13	8	33.2	35.5	10	5	9	45.6	-50.3
6	6	8	127.7	125.7	0	14	8	138.8	142.8	12	5	9	22.1	-27.1
8	6	8	79.6	81.3	2	14	8	9.6	-0.4	14	5	9	34.7	33.1
10	6	8	32.3	-27.7	4	14	8	23.5	-24.5	1	6	9	45.8	43.8
12	6	8	13.1	10.1	6	14	8	87.0	85.7	3	6	9	10.5	-18.0
14	6	8	33.1	85.8	1	15	8	9.1	-8.0	5	6	9	15.4	-15.8
1	7	8	42.0	41.7	3	15	8	37.0	-31.7	7	6	9	77.3	79.0
3	7	8	129.2	-133.1	5	15	8	37.8	-40.2	9	6	9	11.5	-5.6
5	7	8	34.9	-36.4	1	0	9	59.6	63.5	11	6	9	27.5	-27.4
7	7	8	55.1	54.5	3	0	9	33.9	-37.7	13	6	9	27.1	30.0
9	7	8	25.4	18.7	5	0	9	27.8	-32.0	0	7	9	57.6	59.2
11	7	8	124.3	-128.2	7	0	9	96.3	96.3	2	7	9	12.4	13.0
13	7	8	0.	-10.1	9	0	9	0.	-0.6	4	7	9	68.4	-71.5
0	8	8	125.4	121.5	11	0	9	37.9	-38.8	6	7	9	31.1	32.8
2	8	8	15.6	8.2	13	0	9	34.2	35.1	8	7	9	65.4	64.6
4	8	8	40.5	-43.7	0	1	9	49.1	50.3	10	7	9	46.8	-50.4
5	8	8	82.4	81.4	2	1	9	10.	1.1	12	7	9	24.0	-13.7
9	8	8	49.4	44.9	4	1	9	60.1	-60.8	1	8	9	44.8	47.5
10	8	8	0.	-14.4	6	1	9	21.5	30.2	3	8	9	55.4	-58.0
12	8	8	6.8	6.3	8	1	9	51.4	54.5	5	8	9	0.	-14.7
1	9	8	21.4	-26.9	10	1	9	57.7	-52.7	7	8	9	64.3	67.0
3	9	8	55.1	-54.2	12	1	9	9.1	-13.7	9	8	9	11.6	-8.5
5	9	8	77.1	-76.3	14	1	9	37.2	43.0	11	8	9	47.0	-44.0
7	9	8	17.8	15.8	1	2	9	51.8	54.3	0	9	9	37.7	37.5
9	9	8	17.0	-19.0	3	2	9	53.9	-55.4	2	9	9	28.6	-31.6
11	9	8	89.4	-31.8	5	2	9	0.	4.0	4	9	9	38.8	-39.4
13	9	8	24.9	-11.9	7	2	9	55.2	57.9	6	9	9*	0.	2.1
0	10	8	96.9	100.7	9	2	9	0.	0.0	8	9	9	17.0	10.2
2	10	8	29.5	-28.7	11	2	9	31.0	-37.1	10	9	9	23.4	-22.3
4	10	8	149.0	-150.6	13	2	9	22.8	25.0	1	10	9	40.1	44.0
6	10	8	54.9	55.4	0	3	9	52.3	52.0	3	10	9	64.7	-58.5
8	10	8	53.1	65.2	2	3	9	54.0	-49.7	5	10	9	28.6	1.3
10	10	8	115.8	-115.8	4	3	9	67.0	-66.8	7	10	9	45.5	40.8
12	10	8	21.1	-13.9	6	3	9*	4.4	6.0	9	10	9	0.	4.5

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
11	10	9	47.3	-43.5	8	4	10	99.5	96.4	5	0	11	11.3	13.3
0	11	9	51.1	52.8	10	4	10	21.3	-9.5	7	0	11	36.4	42.2
2	11	9	33.1	-31.3	12	4	10	31.2	-25.2	9	0	11	14.0	18.2
4	11	9	67.8	-75.4	1	5	10	14.5	19.2	11	0	11	52.8	-57.7
6	11	9	0.	16.3	3	5	10	74.9	-73.7	0	1	11	58.1	61.3
3	11	9	17.9	29.7	5	5	10	24.8	-22.6	2	1	11	47.7	-43.4
10	11	9	47.0	-49.2	7	5	10	44.5	41.9	4	1	11	71.6	-75.7
1	12	9	27.7	30.8	9	5	10	36.1	-38.9	6	1	11	13.2	9.8
3	12	9	28.5	-20.0	11	5	10	40.6	-31.2	8	1	11	0.	11.9
5	12	9	14.4	-11.5	0	6	10	97.7	100.4	10	1	11	49.1	-44.2
7	12	9	50.5	51.1	2	6	10	40.5	-38.0	1	2	11	32.5	32.7
0	13	9	26.8	15.3	4	6	10	43.2	-38.0	3	2	11	24.3	-24.5
2	13	9	0.	5.3	6	6	10	10.3	-1.2	5	2	11	15.3	-10.5
4	13	9	45.3	-44.5	8	6	10	65.1	63.4	7	2	11	58.1	60.3
6	13	9	21.1	12.2	10	6	10	38.0	-37.8	9	2	11	4.8	0.3
1	14	9	55.2	48.3	12	6	10	51.3	-45.0	11	2	11	38.3	-37.2
3	14	9	31.5	-42.5	1	7	10	33.9	32.1	0	3	11	46.8	51.8
5	14	9	15.5	-18.8	3	7	10	147.8	-148.3	2	3	11	14.4	13.9
0	0	10	50.9	49.1	5	7	10	35.6	-28.7	4	3	11	53.4	-55.1
2	0	10	5.9	-19.9	7	7	10	88.2	90.6	6	3	11	29.7	33.6
4	0	10	121.0	-121.6	9	7	10	59.1	-58.9	8	3	11	48.7	53.2
6	0	10	70.0	73.9	11	7	10	96.3	-96.7	10	3	11	36.7	-41.6
8	0	10	56.6	52.2	0	8	10	31.3	37.1	1	4	11	40.6	39.3
10	0	10	66.8	-67.5	2	8	10	18.1	-7.6	3	4	11	33.5	-37.0
12	0	10	105.3	-108.8	4	8	10	28.4	-18.1	5	4	11	37.5	-37.9
1	1	10	40.3	43.3	6	8	10	0.	-8.1	7	4	11	65.0	67.2
3	1	10	130.6	-135.4	8	8	10	41.5	38.5	9	4	11	22.7	0.7
5	1	10	17.1	-17.1	10	8	10	3.7	-7.7	11	4	11	45.8	-47.8
7	1	10	32.5	36.2	1	9	10	47.9	41.1	0	5	11	54.2	53.4
9	1	10	11.6	-23.5	3	9	10	57.8	-56.0	2	5	11	12.2	-16.8
11	1	10	30.6	-75.8	5	9	10	22.9	-16.5	4	5	11	42.4	-42.5
13	1	10	26.1	22.5	7	9	10	86.5	80.3	6	5	11	32.2	36.6
0	2	10	34.0	29.9	9	9	10	34.4	-33.9	8	5	11	27.4	29.6
2	2	10	46.1	44.7	0	10	10	111.5	116.2	10	5	11	44.4	-41.5
4	2	10	14.0	-1.3	2	10	10	11.4	23.5	1	6	11	35.2	37.1
6	2	10	18.2	21.7	4	10	10	18.5	-34.3	3	6	11	37.7	-39.4
8	2	10	70.9	66.7	6	10	10	29.6	26.4	5	6	11	14.9	-5.5
10	2	10	14.7	1.1	8	10	10	110.0	108.6	7	6	11	31.1	26.9
12	2	10	24.2	-15.4	1	11	10	53.1	51.6	9	6	11	19.6	15.9
1	3	10	111.9	112.6	3	11	10	67.0	-64.7	0	7	11	48.9	51.2
3	3	10	121.8	-122.3	5	11	10	38.2	-37.1	2	7	11	54.8	-52.0
5	3	10	49.6	-51.3	7	11	10	63.8	59.5	4	7	11	67.7	-66.0
7	3	10	130.7	128.1	0	12	10	26.0	15.0	6	7	11	16.7	23.0
9	3	10	14.1	-15.4	2	12	10	5.7	9.6	8	7	11	0.	9.5
11	3	10	64.1	-66.6	4	12	10	20.8	-21.5	1	8	11	47.7	52.6
13	3	10	53.0	58.8	6	12	10	11.6	12.3	3	8	11	31.1	-35.6
0	4	10	93.5	92.8	1	13	10	36.9	35.4	5	8	11	0.	-7.9
2	4	10	54.6	54.2	3	13	10	104.4	-100.8	7	8	11	52.1	52.3
4	4	10	69.7	-74.2	1	0	11	41.6	39.3	9	8	11	0.	17.4
6	4	10	33.9	31.0	3	0	11	51.5	-49.5	0	9	11	31.0	24.0

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
2	9	11	13.6	-4.5	2	8	12	24.5	17.1	1	3	1	0.	8.9
4	9	11	33.2	-38.9	4	8	12	21.3	-23.8	3	3	1	31.1	32.8
6	9	11	12.7	18.4	6	8	12	63.6	50.3	5	3	1	14.6	-13.0
8	9	11	23.5	25.4	1	9	12	7.9	13.6	7	3	1	26.5	25.8
1	10	11	40.9	36.1	3	9	12	48.5	-53.7	9	3	1	0.	6.8
3	10	11	13.9	-16.3	0	10	12	87.5	88.4	11	3	1*	2.6	1.0
5	10	11	20.9	-26.5	1	0	13	39.2	36.0	13	3	1	9.0	6.8
0	11	11	53.9	59.2	3	0	13	0.	-31.7	15	3	1	0.	-1.8
2	11	11	0.	3.2	5	0	13	21.2	-26.7	17	3	1	15.2	8.2
4	11	11	53.6	-55.6	7	0	13	60.1	59.1	19	3	1*	7.8	-5.4
0	0	12	150.8	164.8	0	1	13	30.1	32.2	0	4	1	15.8	18.1
2	0	12	23.3	30.1	2	1	13	0.	2.0	2	4	1	24.3	-21.0
4	0	12	91.3	-94.5	4	1	13	35.4	-37.6	4	4	1	6.0	5.4
6	0	12	47.5	50.4	6	1	13	21.2	26.0	6	4	1	9.2	10.1
8	0	12	112.8	115.3	1	2	13	37.7	33.9	8	4	1	21.0	-19.3
10	0	12	60.3	-62.3	3	2	13	45.4	-45.2	10	4	1	0.	10.6
1	1	12	13.6	6.4	5	2	13	14.0	-8.5	12	4	1	10.6	-6.3
3	1	12	19.2	-13.4	0	3	13	38.8	32.5	14	4	1*	0.	6.9
5	1	12	63.9	-60.4	2	3	13	35.9	-31.6	16	4	1*	5.9	-3.3
7	1	12	55.8	50.8	4	3	13	52.7	-49.9	18	4	1*	4.7	1.3
9	1	12	19.3	-2.5	6	3	13	13.2	0.8	1	5	1	10.8	-9.6
0	2	12	75.0	71.2	1	4	13	43.8	46.4	3	5	1	34.5	-29.2
2	2	12	24.9	-27.0	3	4	13	46.7	-47.0	5	5	1	13.7	12.5
4	2	12	57.0	-57.6	5	4	13	4.9	4.8	7	5	1	40.7	-39.9
6	2	12	35.9	32.6	0	5	13	31.3	33.7	9	5	1	0.	8.0
8	2	12	4.5	4.5	2	5	13	19.7	-15.9	11	5	1	16.1	-3.1
1	3	12	21.6	19.3	4	5	13	49.1	-50.4	13	5	1	21.7	-20.5
3	3	12	101.6	-101.1	1	6	13	36.0	28.1	15	5	1	15.7	22.2
5	3	12	12.5	-12.0	3	6	13	19.7	-21.3	17	5	1	28.2	-21.6
7	3	12	31.2	25.7	0	7	13	41.7	44.9	0	6	1	52.1	54.6
9	3	12	25.3	3.3	1	1	1	8.4	1.5	2	6	1	19.3	-13.8
0	4	12	119.4	121.2	3	1	1	49.6	47.0	4	6	1	6.7	9.2
2	4	12	56.5	-54.6	5	1	1	18.0	-17.6	6	6	1	31.9	31.8
4	4	12	46.0	-42.5	7	1	1	35.0	32.3	8	6	1	13.4	-11.4
6	4	12	64.8	67.3	9	1	1*	7.0	0.4	10	6	1	27.7	27.2
8	4	12	40.2	33.8	11	1	1*	2.2	7.3	12	6	1	0.	-2.9
1	5	12	0.	6.4	13	1	1	21.5	12.9	14	6	1	21.9	21.2
3	5	12	22.3	-15.7	15	1	1	11.5	-13.6	16	6	1	14.1	2.8
5	5	12	32.1	-27.9	17	1	1	23.7	17.5	18	6	1	11.8	3.9
7	5	12	22.4	3.0	19	1	1	14.5	-4.3	1	7	1	12.7	-21.6
0	6	12	72.1	59.7	0	2	1	59.4	-59.1	3	7	1	0.	-6.8
2	6	12	29.2	31.2	2	2	1	10.8	8.6	5	7	1	24.9	-23.2
4	6	12	72.9	-74.3	4	2	1	42.6	-38.5	7	7	1	17.5	-20.0
6	6	12	79.9	78.0	6	2	1	14.3	-16.9	9	7	1	13.2	-2.4
8	6	12	55.5	53.5	8	2	1	0.	4.9	11	7	1	5.4	-16.6
1	7	12	57.6	50.3	10	2	1	44.8	-42.9	13	7	1	4.8	-10.8
3	7	12	13.7	-26.2	12	2	1	14.0	4.3	15	7	1*	0.	-6.9
5	7	12	73.8	-72.9	14	2	1	21.3	-24.4	17	7	1	17.6	-7.3
7	7	12	71.6	72.2	16	2	1	11.3	-13.7	0	8	1	8.6	-15.1
0	8	12	97.5	75.6	18	2	1	0.	2.2	2	8	1	19.6	14.2

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
4	8	1	19.6	-15.2	4	14	1	12.4	4.8	4	3	2	45.4	43.9
6	8	1	0.	3.3	5	14	1	30.3	26.5	6	3	2	24.2	22.9
8	8	1	17.5	11.8	8	14	1	11.9	13.1	8	3	2	19.6	23.4
10	8	1	31.3	-27.5	10	14	1	0.	2.1	10	3	2	22.7	-21.4
12	8	1	20.8	25.2	12	14	1	25.3	24.9	12	3	2*	10.7	-16.2
14	8	1	12.5	-19.6	1	15	1	13.1	-17.5	14	3	2*	0.	17.6
16	8	1	6.6	-4.8	3	15	1	27.8	25.9	16	3	2	0.	-4.0
1	9	1*	6.3	-9.9	5	15	1	30.7	-31.5	18	3	2*	11.1	12.4
3	9	1	35.1	36.4	7	15	1	19.0	8.7	1	4	2	8.8	-6.9
5	9	1	33.9	-32.0	9	15	1	15.5	-3.2	3	4	2	28.8	-22.7
7	9	1	13.3	23.0	11	15	1*	0.	-10.1	5	4	2	73.3	-74.8
9	9	1	11.8	4.2	0	16	1	10.1	1.9	7	4	2	28.0	-29.3
11	9	1	0.	-6.6	2	16	1	8.0	5.4	9	4	2	26.2	-33.1
13	9	1	0.	9.7	4	16	1	11.9	-11.6	11	4	2	39.3	43.6
15	9	1*	5.7	-7.1	6	16	1*	0.	4.7	13	4	2	31.1	-35.1
17	9	1	13.8	12.3	8	16	1	14.0	9.3	15	4	2*	0.	0.3
0	10	1	27.0	-27.2	10	16	1	29.0	-20.4	17	4	2	26.7	-26.7
2	10	1	20.5	-18.9	1	17	1	4.8	2.8	0	5	2	46.1	-51.7
4	10	1	43.6	-41.5	3	17	1	12.8	19.6	2	5	2	296.9	-257.9
6	10	1	0.	-5.5	5	17	1	0.	2.1	4	5	2	112.8	107.2
8	10	1	0.	-19.9	7	17	1*	0.	6.9	6	5	2	37.0	-40.5
10	10	1	29.8	-29.2	9	17	1	7.2	13.9	8	5	2	22.0	-20.0
12	10	1	5.7	-2.5	0	18	1	19.4	15.2	10	5	2	91.9	-97.9
14	10	1	22.5	-19.2	2	18	1	36.8	-29.9	12	5	2	32.3	-45.6
16	10	1	4.5	-11.0	4	18	1*	5.5	-9.6	14	5	2	13.0	-8.0
1	11	1*	8.1	9.9	6	18	1*	6.9	1.9	16	5	2	0.	18.1
3	11	1	10.8	12.3	1	19	1	10.0	7.0	18	5	2	2.1	-2.4
5	11	1	22.6	25.6	3	19	1*	0.	5.0	1	6	2	17.9	8.0
7	11	1	16.3	-12.8	0	1	2*	0.	-2.0	3	6	2	0.	5.8
9	11	1	28.1	29.7	2	1	2	64.6	-69.5	5	6	2	39.7	37.3
11	11	1*	4.7	4.2	4	1	2	9.1	8.6	7	6	2	41.7	41.2
13	11	1	16.4	-1.1	6	1	2	120.4	-117.6	9	6	2	11.5	-18.8
15	11	1	29.5	25.0	8	1	2	20.1	19.4	11	6	2	8.4	3.1
0	12	1	49.0	50.4	10	1	2	37.3	-35.1	13	6	2	17.8	-10.0
2	12	1	19.4	-25.5	12	1	2	22.9	15.7	15	6	2	37.1	33.5
4	12	1*	3.3	12.4	14	1	2	31.9	-38.1	17	6	2	17.6	-7.1
6	12	1	22.6	22.4	16	1	2*	0.	-13.9	0	7	2	7.9	-11.5
8	12	1	8.1	-14.3	18	1	2*	0.	-6.3	2	7	2	29.2	28.9
10	12	1	20.3	19.1	1	2	2	35.9	32.6	4	7	2	5.1	5.2
12	12	1	10.5	-0.2	3	2	2	50.8	-50.6	6	7	2	14.2	16.9
14	12	1*	0.	11.0	5	2	2	280.7	-267.3	8	7	2	12.6	2.8
1	13	1	0.	-6.1	7	2	2	32.5	-34.3	10	7	2	9.5	12.9
3	13	1	10.9	-7.3	9	2	2	36.4	-32.0	12	7	2	11.4	-2.7
5	13	1	16.4	3.4	11	2	2	48.1	51.2	14	7	2	15.7	8.3
7	13	1	21.0	-22.0	13	2	2	12.2	-25.6	16	7	2	0.	0.4
9	13	1	19.8	13.4	15	2	2	34.8	-39.2	18	7	2*	0.	8.8
11	13	1*	0.	-10.3	17	2	2	49.2	-48.3	1	8	2	24.3	-27.9
13	13	1	11.2	-10.3	19	2	2	21.7	3.0	3	8	2	0.	8.9
0	14	1	16.9	23.8	0	3	2*	0.	6.0	5	8	2	27.6	-27.3
2	14	1	11.2	20.2	2	3	2	26.3	-26.9	7	8	2	11.6	-10.2

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
9	8	2	3.1	-9.5	9	14	2	0.	15.4	11	3	3	15.8	-17.1
11	8	2	11.1	-3.1	11	14	2*	0.	-1.3	13	3	3	9.8	-3.4
13	8	2*	3.4	-5.3	13	14	2	17.2	10.2	15	3	3*	0.	2.4
15	8	2	23.1	-15.2	0	15	2	10.6	-27.7	17	3	3*	0.	-5.1
17	8	2	14.2	-0.2	2	15	2	22.9	21.7	0	4	3	32.8	-28.1
0	9	2	67.1	66.3	4	15	2	9.4	-7.7	2	4	3	32.5	25.9
2	9	2	40.1	44.7	6	15	2	11.2	19.4	4	4	3*	5.8	-4.4
4	9	2	52.6	-54.6	8	15	2	0.	-9.2	6	4	3	17.7	-16.2
6	9	2	51.7	-54.6	10	15	2	11.0	7.9	8	4	3	12.2	5.9
8	9	2	21.9	22.3	12	15	2	11.1	-6.7	10	4	3	9.1	-4.2
10	9	2	12.5	18.2	1	16	2	17.2	8.1	12	4	3	15.5	11.1
12	9	2	26.0	33.6	3	16	2	21.0	-18.8	14	4	3*	0.	-13.7
14	9	2	28.8	-22.5	5	16	2	46.4	-44.6	16	4	3*	0.	-1.8
16	9	2	18.2	-18.5	7	16	2	17.5	-12.5	18	4	3	11.2	0.3
1	10	2	0.	7.6	9	16	2	5.9	-4.4	1	5	3	7.4	-2.9
3	10	2	2.8	4.0	0	17	2	19.8	1.0	3	5	3	26.2	21.3
5	10	2	39.0	39.0	2	17	2	23.1	-26.5	5	5	3	15.4	-8.3
7	10	2	10.3	8.0	4	17	2	1.6	10.8	7	5	3	44.4	36.1
9	10	2	22.6	21.7	6	17	2*	0.	-12.5	9	5	3	18.7	-23.8
11	10	2	15.1	-19.8	8	17	2	7.4	5.4	11	5	3	0.	8.6
13	10	2	22.7	20.6	1	18	2	10.9	8.7	13	5	3	15.8	10.0
15	10	2	10.0	1.3	3	18	2	7.5	5.4	15	5	3	17.5	-14.0
0	11	2*	0.	7.7	5	18	2	26.9	-13.7	17	5	3	17.5	16.3
2	11	2	79.6	83.6	0	19	2*	0.	1.4	0	6	3	24.5	-26.4
4	11	2	20.3	-17.0	2	19	2	12.6	-14.2	2	6	3	12.8	-7.6
6	11	2	33.0	36.9	1	1	3	20.5	-20.2	4	6	3	35.3	-37.5
8	11	2*	1.8	-10.7	3	1	3	26.0	-20.0	6	6	3	21.5	-23.2
10	11	2	54.6	58.5	5	1	3	22.0	18.0	8	6	3	8.8	-2.7
12	11	2	0.	16.6	7	1	3	40.9	-36.3	10	6	3	25.7	-23.5
14	11	2	14.2	11.7	9	1	3	5.2	-0.3	12	6	3	13.1	-17.1
1	12	2	0.	-7.7	11	1	3	10.4	-2.7	14	6	3	9.3	-10.4
3	12	2*	0.	1.3	13	1	3	20.4	-11.9	16	6	3*	5.8	-5.1
5	12	2	72.6	71.6	15	1	3*	3.9	2.7	18	6	3*	7.2	-17.1
7	12	2	13.0	3.5	17	1	3	5.5	-11.6	1	7	3	20.3	16.9
9	12	2	25.1	15.1	19	1	3	0.	12.1	3	7	3	24.8	-21.1
11	12	2	36.8	-32.1	0	2	3	71.7	62.8	5	7	3	11.3	21.6
13	12	2	15.5	20.5	2	2	3	9.6	-0.2	7	7	3*	4.7	-3.4
15	12	2	15.2	10.3	4	2	3	21.2	18.3	9	7	3*	0.	4.5
0	13	2	18.8	-16.6	6	2	3*	0.	8.0	11	7	3	0.	7.3
2	13	2	15.3	-6.3	8	2	3	0.	11.2	13	7	3	5.1	4.4
4	13	2	15.4	-12.0	10	2	3	33.0	36.2	15	7	3*	2.4	2.6
6	13	2*	0.	12.6	12	2	3	12.2	-10.8	17	7	3	5.0	0.2
8	13	2*	6.4	-6.1	14	2	3	17.6	27.8	0	8	3*	6.1	-0.2
10	13	2	13.2	-12.9	16	2	3	18.6	2.5	2	8	3	24.5	-25.1
12	13	2	14.0	-9.7	18	2	3	0.	3.5	4	8	3	14.2	17.7
14	13	2	2.6	3.1	1	3	3	0.	-6.6	6	8	3	13.6	-16.2
1	14	2	4.2	8.4	3	3	3	19.0	-22.5	8	8	3	16.9	-14.0
3	14	2	11.5	8.3	5	3	3	8.8	3.7	10	8	3	19.9	20.8
5	14	2*	7.3	13.6	7	3	3	9.7	2.8	12	8	3	22.2	-25.2
7	14	2*	0.	-0.2	9	3	3	0.	-9.9	14	8	3	15.5	13.3

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
16	8	3*	0.	-1.6	5	15	3	22.1	35.2	7	4	4	51.9	-53.9
1	9	3	14.3	5.3	7	15	3	14.9	-0.7	9	4	4	23.2	27.6
3	9	3	41.8	-44.4	9	15	3	12.8	9.7	11	4	4	8.9	-20.8
5	9	3	0.	-0.5	11	15	3	5.2	11.6	13	4	4	24.6	-7.9
7	9	3	17.9	-14.5	0	16	3*	9.8	10.6	15	4	4*	0.	5.5
9	9	3	10.4	-5.5	2	16	3	6.9	6.6	17	4	4	14.6	8.1
11	9	3	16.5	-7.9	4	16	3	11.7	9.9	0	5	4	61.8	61.6
13	9	3*	8.4	-4.4	6	16	3	11.8	-5.2	2	5	4	40.6	31.1
15	9	3*	0.	-0.7	8	16	3	16.7	13.9	4	5	4	89.6	-85.0
0	10	3	6.7	-5.8	10	16	3	17.9	11.4	6	5	4	26.6	-22.1
2	10	3	27.7	28.2	1	17	3	20.1	-2.9	8	5	4	73.9	-72.9
4	10	3	7.8	13.3	3	17	3*	5.9	-10.0	10	5	4	80.4	30.8
6	10	3	8.6	10.7	5	17	3	18.5	-10.6	12	5	4	27.9	-28.2
8	10	3	29.0	26.5	7	17	3	20.7	14.4	14	5	4	0.	1.2
10	10	3	11.7	5.4	0	18	3	23.3	-16.4	16	5	4	39.5	-40.7
12	10	3*	0.	1.3	2	18	3	34.0	28.7	1	6	4	57.1	54.7
14	10	3	10.7	15.9	4	18	3	14.2	6.9	3	6	4	54.1	-49.7
16	10	3	6.0	15.1	6	18	3*	8.5	-3.3	5	6	4	5.1	18.8
1	11	3*	0.	-5.8	0	1	4	97.9	-94.3	7	6	4	9.3	-14.1
3	11	3	16.3	-2.8	2	1	4	171.3	165.9	9	6	4	32.3	36.3
5	11	3	21.5	-22.0	4	1	4	36.6	39.2	11	6	4	12.7	-19.5
7	11	3	19.1	12.5	6	1	4	77.1	75.7	13	6	4*	0.	10.0
9	11	3	15.8	-25.7	8	1	4	20.7	28.0	15	6	4*	0.	8.6
11	11	3	11.7	3.3	10	1	4	20.0	23.3	17	6	4	8.7	-16.5
13	11	3	0.	5.2	12	1	4	50.1	49.3	0	7	4	37.5	-39.0
15	11	3	23.0	-27.0	14	1	4	8.5	5.7	2	7	4	9.7	-17.2
0	12	3	32.7	-33.3	16	1	4	24.5	23.7	4	7	4	20.0	-18.6
2	12	3	14.4	18.8	18	1	4	29.3	34.3	6	7	4	36.9	-37.5
4	12	3	0.	-1.7	1	2	4	135.9	-119.3	8	7	4	0.	-2.8
6	12	3	20.2	-10.9	3	2	4	22.7	23.1	10	7	4	27.5	-27.7
8	12	3	14.0	14.2	5	2	4	28.5	29.7	12	7	4	21.0	6.3
10	12	3	17.8	-15.0	7	2	4	71.3	66.4	14	7	4	27.6	-24.4
12	12	3*	6.5	2.9	9	2	4	57.0	-56.1	16	7	4	0.	-1.1
14	12	3	8.6	-7.1	11	2	4	77.5	-78.0	1	8	4	19.2	-12.8
1	13	3	21.5	25.4	13	2	4	25.6	23.2	3	8	4	68.0	66.3
3	13	3	13.6	-8.5	15	2	4*	0.	-6.2	5	8	4	23.4	-28.0
5	13	3	7.1	13.3	17	2	4	42.2	43.4	7	8	4	31.3	31.7
7	13	3	19.4	22.7	0	3	4*	1.7	7.2	9	8	4	0.	-12.7
9	13	3	8.9	-1.4	2	3	4	19.3	23.5	11	8	4	6.6	20.5
11	13	3	23.0	8.7	4	3	4	62.0	-62.3	13	8	4	17.4	18.5
13	13	3	11.5	11.2	6	3	4	13.0	-15.2	15	8	4	0.	-20.6
0	14	3	14.9	-2.2	8	3	4	3.5	16.2	0	9	4	33.8	-34.0
2	14	3	12.5	-16.3	10	3	4	24.7	-17.7	2	9	4	53.3	51.7
4	14	3	14.7	1.2	12	3	4	6.2	20.1	4	9	4	39.6	45.9
6	14	3	15.1	-17.9	14	3	4	0.4	-7.0	6	9	4	86.5	90.2
8	14	3*	0.	-10.4	16	3	4*	0.	3.3	8	9	4	50.6	48.4
10	14	3	14.2	12.2	18	3	4	25.6	-15.2	10	9	4	31.0	-31.4
12	14	3	23.1	-25.5	1	4	4	37.3	-30.7	12	9	4	18.5	15.4
1	15	3	12.7	21.0	3	4	4	13.4	-9.9	14	9	4	36.8	35.8
3	15	3	14.5	-11.5	5	4	4	95.0	88.3	16	9	4	32.5	32.0

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
1	10	4	18.3	-4.3	6	17	4	16.4	15.8	2	6	5*	8.0	3.5
3	10	4	15.4	-23.8	1	18	4	23.4	-18.8	4	6	3	7.0	9.2
5	10	4	25.4	-37.8	3	18	4	7.4	-22.1	6	6	5	31.1	32.7
7	10	4	0.	-6.1	1	1	5	6.2	5.1	8	6	5	26.0	28.9
9	10	4	10.1	-16.3	3	1	5	46.2	45.1	10	6	5*	0.	6.4
1	10	4	11.0	-3.0	5	1	5	12.0	6.0	12	6	5*	11.0	8.0
3	10	4	14.5	-16.4	7	1	5	7.0	9.2	14	6	5	22.9	20.3
5	10	4	18.9	2.6	9	1	5*	0.	1.8	16	6	5	19.3	13.1
7	11	4*	0.	15.0	11	1	5	24.2	22.0	1	7	5	17.5	-16.7
9	11	4	73.3	-77.6	13	1	5	25.4	11.5	3	7	5	0.	8.7
1	11	4	54.1	54.6	15	1	5	5.8	-11.3	5	7	5	19.0	-10.9
3	11	4	23.2	-20.6	17	1	5	16.2	13.5	7	7	5*	6.7	0.7
5	11	4	24.7	-18.3	0	2	5	29.3	-26.5	9	7	5	6.3	-5.9
7	11	4*	0.	-1.3	2	2	5	7.6	-4.1	11	7	5	0.	-8.8
9	11	4	26.9	-26.1	4	2	5	36.3	-32.7	13	7	5	14.9	-5.8
1	12	4	13.9	-3.7	6	2	5*	0.2	-8.2	15	7	5*	0.	-0.7
3	12	4	35.0	37.4	8	2	5	5.4	-0.3	0	8	5	17.7	-12.1
5	12	4	21.7	-17.5	10	2	5	38.8	-36.9	2	8	5	16.7	16.5
7	12	4	0.	1.4	12	2	5	15.0	4.0	4	8	5*	0.	-6.3
9	12	4	14.7	16.2	14	2	5	21.7	-16.5	6	8	5	0.	8.1
1	12	4	33.7	32.8	16	2	5*	0.	-0.5	8	8	5	9.2	-2.4
3	12	4	12.2	-13.0	18	2	5	28.1	-13.6	10	8	5	12.9	-11.0
5	13	4	21.3	25.3	1	3	5	29.5	26.6	12	8	5	28.4	23.1
7	13	4	5.6	-18.2	3	3	5*	3.8	5.6	14	8	5	10.0	-14.7
9	13	4	0.	-23.4	5	3	5	14.5	-3.9	16	8	5*	0.	-3.6
1	13	4	14.1	-9.2	7	3	5	19.6	20.6	1	9	5*	8.3	12.5
3	13	4	10.8	-2.2	9	3	5	10.3	15.2	3	9	5	24.6	26.4
5	13	4	13.4	-2.0	11	3	5	10.1	2.1	5	9	5	7.6	-3.3
7	13	4	16.9	-13.6	13	3	5*	0.	8.9	7	9	5	23.9	28.7
9	14	4	13.2	-4.0	15	3	5	0.	13.0	9	9	5*	8.7	9.2
1	14	4	27.3	26.8	17	3	5*	4.5	0.8	11	9	5*	0.	-2.7
3	14	4	21.2	-17.3	0	4	5	9.1	3.0	13	9	5	15.9	8.3
5	14	4	0.	18.3	2	4	5	20.9	-15.7	15	9	5	14.6	12.5
7	14	4	0.	-5.7	4	4	5	14.9	13.8	0	10	5	24.7	22.9
9	14	4*	0.	11.3	6	4	5	6.8	4.2	2	10	5	27.4	-30.7
1	15	4	13.9	-14.7	8	4	5	20.6	-15.1	4	10	5	19.8	-27.8
3	15	4	12.8	9.6	10	4	5	19.7	9.3	6	10	5	15.1	-6.5
5	15	4	18.8	-0.0	12	4	5	13.0	0.5	8	10	5	13.1	-10.9
7	15	4	15.4	-21.7	14	4	5*	0.	-2.2	10	10	5	19.9	-16.0
9	15	4	26.5	16.7	16	4	5	0.	-1.4	12	10	5	11.7	-7.1
1	16	4	8.0	-22.4	1	5	5	6.6	-7.3	14	10	5	13.9	-5.6
3	16	4	9.3	-12.4	3	5	5	22.3	-19.8	1	11	5	17.9	1.2
5	16	4	15.5	5.6	5	5	5	13.1	5.2	3	11	5	9.3	12.5
7	16	4	20.3	10.0	7	5	5	35.8	-32.5	5	11	5	6.4	15.9
9	16	4	34.3	27.6	9	5	5	19.5	15.5	7	11	5	25.5	-10.9
1	17	4	15.0	-12.7	11	5	5	16.6	-11.9	9	11	5	15.4	20.4
3	17	4	17.5	17.8	13	5	5	24.0	-10.6	11	11	5	12.8	6.0
5	17	4	7.8	18.2	15	5	5	11.0	6.1	13	11	5	16.8	-5.7
7	17	4*	0.	-4.3	17	5	5	11.3	-12.5	0	12	5	32.5	26.4
					0	6	5	59.9	61.2	2	12	5*	0.	-16.0

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
1	12	5*	0.	-6.9	0	3	6	36.4	34.8	13	8	6	25.4	-33.1
6	12	5*	0.	11.5	2	3	6	23.9	-22.5	15	8	6	0.	24.0
8	12	5	0.	-11.6	4	3	6	35.8	-32.8	0	9	6	27.6	27.3
10	12	5	15.0	8.2	6	3	6	19.3	17.0	2	9	6	104.7	-105.2
12	12	5*	9.3	-5.5	6	3	6	18.0	-13.5	4	9	6	33.9	-29.9
1	13	5	0.	-7.9	10	3	6*	1.9	1.0	6	9	6	11.3	-17.2
3	13	5	11.1	-3.7	12	3	6	29.5	-28.5	8	9	6	52.0	-56.2
5	13	5	6.7	-18.9	14	3	6	7.9	13.7	10	9	6	4.8	-7.6
7	13	5	8.0	-1.9	16	3	6	18.1	-1.3	12	9	6	72.9	-70.7
9	13	5*	0.	2.4	1	4	6	19.2	-13.3	14	9	6*	10.9	13.2
11	13	5	12.7	-20.7	3	4	6	90.0	87.4	1	10	6	0.	18.7
0	14	5	22.7	14.1	5	4	6	22.6	-19.4	3	10	6*	6.1	7.4
2	14	5	10.9	13.6	7	4	6	30.0	26.4	5	10	6*	0.	-5.5
4	14	5	11.5	3.8	9	4	6	0.	6.0	7	10	6	29.8	30.9
6	14	5	19.6	20.9	11	4	6	17.3	17.9	9	10	6	15.3	1.1
8	14	5	19.6	13.9	13	4	6	21.1	30.0	11	10	6	14.6	6.6
10	14	5*	6.2	-7.1	15	4	6	37.7	-35.1	13	10	6*	0.	2.5
1	15	5	17.6	-19.3	17	4	6	45.4	45.9	0	11	6	67.7	-68.2
3	15	5	24.3	10.6	0	5	6	65.9	-61.4	2	11	6	26.1	26.6
5	15	5	12.7	-26.6	2	5	6	183.4	179.6	4	11	6	13.9	1.1
7	15	5	17.2	-6.3	4	5	6	0.	0.4	6	11	6	34.0	-34.6
9	15	5	7.3	-7.7	6	5	6	51.2	45.8	8	11	6	9.6	20.6
0	16	5*	0.	-0.9	8	5	6	82.4	79.9	10	11	6	28.9	-35.1
2	16	5	15.9	-7.3	10	5	6	10.5	-6.9	12	11	6	32.5	33.7
4	16	5	26.9	-23.2	12	5	6	89.1	94.9	1	12	6	12.4	-20.7
6	16	5	6.1	12.3	14	5	6*	8.8	-6.1	3	12	6	27.7	28.2
8	16	5	14.9	-7.8	16	5	6	27.6	23.4	5	12	6	68.8	-58.0
1	17	5*	0.	12.1	1	6	6	0.	-0.5	7	12	6	44.6	40.0
3	17	5	13.9	3.6	3	6	6	7.5	-5.5	9	12	6	31.1	-40.0
5	17	5	14.4	6.5	5	6	6	53.5	-60.7	11	12	6	17.2	4.6
0	18	5*	0.	6.2	7	6	6	47.7	48.4	0	13	6	28.1	31.4
2	18	5	0.	-23.6	9	6	6	21.2	-22.7	2	13	6	13.2	18.7
0	1	6	10.9	-3.7	11	6	6	31.2	-30.2	4	13	6	11.5	2.4
2	1	6	95.7	-75.1	13	6	6	16.2	26.7	6	13	6	21.9	16.5
4	1	6	25.6	25.3	15	6	6	17.6	-20.7	8	13	6	37.9	36.8
6	1	6	21.2	-23.2	0	7	6	32.4	31.5	10	13	6	13.5	-8.2
8	1	6	100.0	-100.8	2	7	6	17.9	-9.7	1	14	6*	0.	-12.4
10	1	6	53.0	55.5	4	7	6	25.9	28.6	3	14	6	29.8	-32.1
12	1	6	66.1	-68.5	6	7	6	20.0	8.9	5	14	5*	0.	11.5
14	1	6	15.7	-3.3	8	7	6	7.4	-9.8	7	14	6	42.6	-41.3
16	1	6	22.8	-17.1	10	7	6	36.7	33.2	9	14	6*	4.5	-2.0
1	2	6	86.2	78.8	12	7	6	0.	-13.2	0	15	6	10.1	29.4
3	2	6	63.9	-60.5	14	7	6	20.1	13.0	2	15	6	46.7	-46.9
5	2	6	155.5	149.4	16	7	6	9.5	6.6	4	15	6	5.8	21.7
7	2	6	36.7	-36.2	1	8	6	11.5	-1.7	6	15	6*	0.	-6.5
9	2	6	55.4	63.5	3	8	6	40.4	-43.0	8	15	6	36.2	-31.7
11	2	6	0.	-6.1	5	8	6	77.9	77.4	1	16	6	11.3	20.3
13	2	6	12.8	-3.0	7	8	6	80.1	-80.4	3	16	6	18.0	-19.5
15	2	6	55.3	53.2	9	8	6	26.4	23.7	5	16	6	22.1	27.7
17	2	6	19.5	-25.0	11	8	6	21.7	9.1	7	16	6	17.0	3.9

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
0	17	6	26.6	-22.5	10	6	7	22.7	-25.5	0	14	7	21.8	-29.5
2	17	6	14.4	9.2	12	6	7	9.7	-17.8	2	14	7	18.0	-14.2
4	17	6	24.1	-22.6	14	6	7	6.	3.5	4	14	7	17.7	-17.9
1	1	7	17.1	-22.4	1	7	7	7.2	19.0	6	14	7	27.2	-25.1
3	1	7*	0.	-6.1	3	7	7	9.7	7.3	8	14	7	25.6	-11.1
5	1	7	0.	1.2	5	7	7	14.9	13.7	1	15	7	15.3	10.6
7	1	7	31.7	-30.7	7	7	7	16.0	19.6	3	15	7	22.0	-4.6
9	1	7	21.0	-8.0	9	7	7	14.8	3.0	5	15	7	16.6	15.6
11	1	7*	5.3	7.8	11	7	7	14.8	11.8	7	15	7	15.7	2.8
13	1	7	20.7	-10.4	13	7	7	22.4	10.5	0	16	7	22.3	8.3
15	1	7	11.7	-11.7	15	7	7	12.6	2.4	2	16	7*	5.8	-5.4
0	2	7	19.3	20.3	0	8	7*	0.	-9.9	4	16	7	17.4	-0.2
2	2	7*	4.3	0.1	2	8	7	0.	0.7	0	1	8	24.9	-24.4
4	2	7	12.9	10.3	4	8	7	13.5	12.4	2	1	8	18.6	17.3
6	2	7	25.2	22.7	6	8	7	17.6	-10.1	4	1	8	41.4	42.3
8	2	7	18.2	12.8	8	8	7	10.6	-4.9	6	1	8	44.6	-49.8
10	2	7	17.1	7.7	10	8	7	9.6	13.9	8	1	8	30.4	27.3
12	2	7	24.5	-7.3	12	8	7	14.9	-4.4	10	1	8	7.7	-4.0
14	2	7	19.3	20.1	14	8	7	0.	-0.5	12	1	8	53.2	55.1
16	2	7*	4.7	13.9	1	9	7	0.	3.9	14	1	8	37.0	-38.4
1	3	7	17.7	8.3	3	9	7	30.2	-35.1	1	2	8	55.0	59.8
3	3	7	35.4	-36.6	5	9	7*	7.6	6.0	3	2	8	25.8	25.0
5	3	7	15.6	-18.0	7	9	7*	0.	3.0	5	2	8	95.9	-93.9
7	3	7*	5.0	-0.8	9	9	7	10.5	-10.2	7	2	8	50.2	50.7
9	3	7	8.8	-5.5	11	9	7*	0.	-14.2	9	2	8	8.5	-4.0
11	3	7*	7.3	-12.7	13	9	7	0.	-2.8	11	2	8	40.2	44.5
13	3	7	11.0	-7.3	0	10	7	30.0	29.1	13	2	8	20.9	20.4
15	3	7*	0.	0.7	2	10	7	10.5	13.8	15	2	8	21.6	-24.0
0	4	7	19.9	-19.1	4	10	7*	6.0	4.5	0	3	8	45.5	41.6
2	4	7*	0.	10.4	6	10	7	10.5	8.0	2	3	8	0.	14.0
4	4	7	25.4	24.9	8	10	7	26.7	21.3	4	3	8	13.8	12.8
6	4	7	6.3	0.3	10	10	7	16.4	15.0	6	3	8	37.5	39.4
8	4	7	8.5	-1.5	12	10	7*	3.0	-5.1	8	3	8	41.5	44.0
10	4	7*	10.0	6.5	1	11	7	10.9	-10.4	10	3	8	7.1	-8.8
12	4	7	11.4	5.7	3	11	7	10.7	-11.0	12	3	8	0.	6.0
14	4	7	14.0	-0.7	5	11	7	9.4	-0.7	14	3	8	32.9	30.5
16	4	7*	0.	2.7	7	11	7*	0.	-6.8	1	4	8	23.6	-11.8
1	5	7	17.1	21.9	9	11	7	20.4	-18.2	3	4	8	0.	6.9
3	5	7	16.1	16.3	11	11	7*	4.5	-1.9	5	4	8	23.7	-2.9
5	5	7*	2.0	3.2	0	12	7	16.6	-9.9	7	4	8	47.6	-46.1
7	5	7	13.1	17.2	2	12	7	0.	13.2	9	4	8	0.	-3.3
9	5	7*	3.3	6.1	4	12	7	10.0	-1.7	11	4	8	41.1	38.8
11	5	7	15.0	16.4	6	12	7	21.0	-11.4	13	4	8	39.7	-35.8
13	5	7	13.1	15.5	8	12	7*	0.	11.8	15	4	8	17.8	8.6
15	5	7*	0.	-6.7	10	12	7*	6.1	-2.9	0	5	8*	9.5	-4.5
0	6	7	12.2	-11.6	1	13	7	0.	15.8	2	5	8	129.4	-130.1
2	6	7	6.5	-4.9	3	13	7	12.0	-11.4	4	5	8	53.4	60.3
4	6	7	26.5	-31.9	5	13	7	13.7	-2.6	6	5	8	22.5	-22.6
6	6	7	6.4	-11.5	7	13	7	21.5	26.3	8	5	8	34.9	-35.7
8	6	7	10.1	3.9	9	13	7	16.0	-6.6	10	5	8	39.1	-37.9

H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/	H	K	L	/FO/	/FC/
2	5	8	56.7	-54.4	4	13	8	30.5	-33.6	6	6	9	14.8	17.9
4	5	8*	0.	-1.2	6	13	8*	6.5	3.8	8	6	9	14.7	17.4
1	6	8	14.8	12.7	8	13	8	14.0	-5.2	10	6	9	12.6	-5.5
3	6	8	35.4	-34.2	1	14	8	9.8	5.5	12	6	9	22.1	0.3
5	6	8	0.	14.3	3	14	8	36.8	34.0	1	7	9	11.4	-5.4
7	6	8	30.1	28.5	5	14	8	15.7	0.8	3	7	9	8.0	-5.7
9	6	8	14.4	-10.6	7	14	8	27.6	17.7	5	7	9	15.7	-9.6
11	6	8	26.8	-20.7	0	15	8	14.4	-29.9	7	7	9	12.3	-11.6
13	6	8*	0.	-7.4	2	15	8	42.5	41.8	9	7	9	7.2	2.8
0	7	8	25.0	-22.6	4	15	8*	0.	0.7	11	7	9*	6.8	-7.4
2	7	8	29.9	29.2	1	1	9*	7.8	-8.6	13	7	9	16.1	-6.6
4	7	8	0.	2.4	3	1	9	16.9	21.0	0	8	9	19.5	4.3
6	7	8	6.1	7.3	5	1	9	27.0	19.4	2	8	9	15.3	-3.5
8	7	8*	0.	8.0	7	1	9	7.0	-9.9	4	8	9	5.7	13.1
10	7	8	10.4	2.4	9	1	9*	0.	0.9	6	8	9	6.3	8.4
12	7	8	16.8	3.2	11	1	9*	0.	17.6	8	8	9	16.5	-8.6
14	7	8*	0.	-2.6	13	1	9*	1.6	-4.0	10	8	9*	0.	4.8
1	8	8	13.4	-17.3	0	2	9	0.	24.0	12	8	9	16.6	8.1
3	8	8	55.3	51.8	2	2	9	12.1	-7.6	1	9	9	18.2	18.1
5	8	8	21.5	-23.1	4	2	9	17.6	-21.8	3	9	9	12.9	-3.6
7	8	8	17.2	11.8	6	2	9	16.7	-3.1	5	9	9	14.3	-7.3
9	8	8	7.9	-6.7	8	2	9	15.0	-0.2	7	9	9	11.8	8.9
11	8	8	16.0	13.8	10	2	9	2.0	0.8	9	9	9	13.8	15.4
13	8	8	19.7	12.1	12	2	9*	0.	-9.8	11	9	9*	0.	-3.8
0	9	8	41.9	42.6	14	2	9	13.6	-0.2	0	10	9*	0.	-1.8
2	9	8	37.6	33.9	1	3	9	10.8	9.7	2	10	9	17.8	-14.7
4	9	8	40.6	-43.5	3	3	9*	1.7	-0.5	4	10	9	27.1	-22.9
6	9	8	20.8	-17.2	5	3	9	20.4	11.4	6	10	9	12.0	11.8
8	9	8	41.7	37.0	7	3	9	19.1	23.1	8	10	9	12.1	-3.7
10	9	8	13.5	-8.8	9	3	9*	0.	6.5	10	10	9	25.2	-23.0
12	9	8	39.5	45.8	11	3	9	15.1	-14.8	1	11	9	11.5	3.0
1	10	8*	8.6	3.2	13	3	9	11.0	5.6	3	11	9	21.7	20.3
3	10	8	22.5	-21.7	0	4	9*	5.8	-10.7	5	11	9	12.8	0.8
5	10	8	7.9	10.5	2	4	9	8.6	-3.8	7	11	9	13.0	-3.5
7	10	8*	5.6	-2.6	4	4	9	11.5	-4.2	9	11	9*	11.7	15.6
9	10	8	7.4	10.9	6	4	9	18.0	-15.9	0	12	9	11.0	-1.9
11	10	8	22.4	-29.1	8	4	9	17.6	-14.6	2	12	9	14.7	-10.6
0	11	9*	0.	-8.2	10	4	9	0.	3.9	4	12	9*	5.0	-6.6
2	11	8	18.5	14.0	12	4	9*	3.3	8.3	6	12	9	0.	5.3
4	11	8	12.4	-4.5	14	4	9*	0.	-14.3	8	12	9*	0.	-2.0
6	11	8	0.	5.1	1	5	9	17.7	-24.2	1	13	9	14.8	4.5
8	11	8	43.1	-46.0	3	5	9*	0.	2.3	3	13	9	12.9	-10.2
10	11	8	52.8	54.2	5	5	9	11.4	-10.9	5	13	9	11.9	-14.0
1	12	8	24.4	-17.2	7	5	9*	0.	-4.7	7	13	9	8.1	7.2
3	12	8	36.2	-31.8	9	5	9*	0.	-13.6	0	14	9	24.0	26.3
5	12	8	46.0	45.5	11	5	9	14.3	-11.4	2	14	9*	0.	10.0
7	12	8	22.4	-26.8	13	5	9	9.6	-5.4	4	14	9	17.7	4.4
9	12	8	0.	3.8	0	6	9	27.2	32.3	0	1	10	45.4	-49.0
0	13	8*	8.3	-6.7	2	6	9*	0.	5.8	2	1	10	20.9	-11.0
2	13	8	14.7	-22.0	4	6	9	17.9	-21.4	4	1	10	18.0	18.2

H	K	L	/FO/	/FC/
6	1	10	12.7	-15.3
8	1	10	47.3	-49.4
10	1	10	25.5	24.2
12	1	10	27.8	-20.0
1	2	10	20.2	-21.7
3	2	10	35.6	-36.8
5	2	10	34.3	28.1
7	2	10	11.8	0.6
9	2	10	15.9	-16.5
11	2	10	37.6	-41.3
13	2	10	17.2	-8.8
0	3	10*	0.	9.8
2	3	10	33.4	-40.1
4	3	10	47.2	-48.9
6	3	10	30.4	-25.2
8	3	10*	6.6	-8.5
10	3	10	33.5	-32.3
12	3	10	20.6	-22.5
1	4	10	25.3	-29.7
3	4	10	37.0	34.6
5	4	10*	0.	6.7
7	4	10	13.3	-9.5
9	4	10	15.6	-4.5
11	4	10	0.	9.5
13	4	10*	0.	-4.2
0	5	10	13.3	11.6
2	5	10	58.0	59.2
4	5	10	14.8	-2.4
6	5	10	13.8	6.7
8	5	10	18.7	19.0
10	5	10	32.4	30.1
12	5	10	41.5	38.2
1	6	10	23.8	18.2
3	6	10	29.0	-32.7
5	6	10	29.0	-28.8
7	6	10	24.2	24.4
9	6	10	8.5	-6.7
11	6	10	0.	-22.7
0	7	10*	5.7	-0.8
2	7	10*	0.	-18.4
4	7	10	12.1	4.7
6	7	10	12.8	-19.6
8	7	10	0.	-7.9
10	7	10	6.6	2.0
1	8	10	13.6	-11.5
3	8	10	10.8	4.0
5	8	10	20.6	19.4
7	8	10	39.5	-35.6
9	8	10*	0.	3.0
11	8	10*	7.8	15.0

H	K	L	/FO/	/FC/
0	9	10	10.7	-5.1
2	9	10	26.8	-24.6
4	9	10	16.8	-12.6
6	9	10	24.5	26.0
8	9	10	15.4	-8.0
10	9	10	23.2	-25.4
1	10	10	15.4	20.4
3	10	10	0.	-0.6
5	10	10	0.	-3.6
7	10	10	22.5	21.6
9	10	10	3.5	7.1
0	11	10	29.9	-31.3
2	11	10	11.4	8.2
4	11	10	35.5	30.9
6	11	10	20.1	-7.9
8	11	10	14.5	7.4
1	12	10	22.4	22.2
3	12	10	14.7	15.4
5	12	10	14.0	-7.5
0	13	10	43.3	41.0
2	13	10	17.9	21.5
4	13	10	17.1	-7.8
1	1	11	16.6	-20.0
3	1	11	15.4	12.6
5	1	11	19.0	-10.3
7	1	11	10.9	-18.1
9	1	11	19.6	-8.9
11	1	11*	10.1	6.6
0	2	11	10.4	0.1
2	2	11	15.3	10.4
4	2	11	9.9	-8.7
6	2	11	0.	-0.8
8	2	11*	7.0	19.1
10	2	11	16.0	-14.2
1	3	11	5.2	2.4
3	3	11	25.2	-20.3
5	3	11	19.5	-22.8
7	3	11	21.0	8.9
9	3	11	18.0	-7.9
11	3	11	14.7	-15.9
0	4	11	13.7	-11.2
2	4	11	16.6	2.5
4	4	11	17.2	16.4
6	4	11	12.5	-1.5
8	4	11*	8.7	-9.7
10	4	11*	4.1	11.1
1	5	11	0.	13.7
3	5	11	4.9	-2.8
5	5	11	23.9	22.7
7	5	11	8.5	-0.4

H	K	L	/FO/	/FC/
9	5	11	7.6	6.8
0	6	11	16.7	19.0
2	6	11	20.6	-19.5
4	6	11	14.0	-18.5
6	6	11	14.3	0.2
8	6	11	12.1	4.7
10	6	11*	0.	-10.0
1	7	11	9.5	4.7
3	7	11	8.3	-4.0
5	7	11	16.4	6.6
7	7	11*	7.0	4.6
9	7	11	0.	-1.1
0	8	11	34.5	-28.0
2	8	11*	8.2	4.6
4	8	11*	9.0	0.9
6	8	11	17.8	-17.8
8	8	11*	7.1	-5.0
1	9	11	0.	0.3
3	9	11*	0.	-12.6
5	9	11	18.2	-18.5
7	9	11	22.6	17.0
0	10	11	18.8	14.9
2	10	11	10.7	13.0
4	10	11	16.3	-4.7
6	10	11*	9.7	2.9
1	11	11*	7.7	-4.2
3	11	11*	0.	-5.4
0	12	11*	6.8	11.2
0	1	12	45.6	-49.0
2	1	12	61.4	66.5
4	1	12	23.8	34.3
6	1	12	19.2	15.7
8	1	12	20.3	16.1
1	2	12	33.5	-17.1
3	2	12	26.5	-0.2
5	2	12	36.5	-35.7
7	2	12	37.0	31.2
9	2	12	0.	-21.5
0	3	12*	7.1	19.0
2	3	12	18.9	29.3
4	3	12	14.4	-15.4
6	3	12	32.5	29.6
8	3	12	25.5	30.8
1	4	12	26.8	-10.8
3	4	12*	0.	-2.2
5	4	12	19.4	29.4
7	4	12	50.9	-51.1
9	4	12	27.0	19.8
0	5	12*	7.1	-10.6
2	5	12	39.0	-42.4

H	K	L	/FO/	/FC/
4	5	12	34.5	-29.3
6	5	12	12.9	-19.6
9	5	12	62.7	-51.6
1	6	12	31.3	41.5
3	6	12	28.9	-28.3
5	6	12	25.3	24.1
7	6	12*	0.	15.6
0	7	12	27.4	-22.2
2	7	12	0.	5.8
4	7	12	10.1	-5.2
6	7	12	13.5	-9.9
1	8	12	13.4	-22.9
3	8	12	46.4	43.8

H	K	L	/FO/	/FC/
5	8	12	21.3	-16.7
0	9	12	26.2	20.8
2	9	12	41.3	37.5
4	9	12	0.	4.3
1	1	13	13.1	3.0
3	1	13	17.2	17.1
5	1	13	17.7	23.5
7	1	13	10.6	-12.8
0	2	13	13.5	10.0
2	2	13	18.9	-15.7
4	2	13	13.1	-4.7
6	2	13*	0.	9.1

H	K	L	/FO/	/FC/
1	3	13	21.7	22.6
3	3	13*	2.4	-5.2
5	3	13*	7.7	0.9
0	4	13*	0.	-20.8
2	4	13	16.6	2.0
4	4	13	13.2	9.3
1	5	13	0.	-9.3
3	5	13	9.9	1.3
5	5	13	24.1	-22.3
0	6	13*	7.8	20.3
2	6	13	16.1	6.6
1	7	13	10.6	-4.5