

Surinamite, *ca.* $Mg_3Al_4Si_3BeO_{16}$: its crystal structure and relation to sapphirine, *ca.* $Mg_{2.8}Al_{7.2}Si_{1.2}O_{16}$

PAUL B. MOORE AND TAKAHARU ARAKI

Department of the Geophysical Sciences
The University of Chicago Chicago, Illinois 60637

Abstract

Surinamite is monoclinic, space group $P2/n$, with $a = 9.916(1)$, $b = 11.384(1)$, $c = 9.631(1)\text{\AA}$, $\beta = 109.30(1)^\circ$. The asymmetric unit contains *ca.* $Mg_3Al_4Si_3BeO_{16}$ comprised of nine octahedral cations and five tetrahedral cations incorporated in a cubic close-packed array of sixteen independent oxygen atoms. $R = 0.047$ for 2998 independent reflections.

The structure consists of octahedral walls running parallel to x which are connected along y by an open branched chain $\frac{1}{2}[T_5O_{15}]$ where one of the tetrahedra, $T(1)$, is principally occupied by Be^{2+} . This tetrahedron is unique in the asymmetric unit in that three of its vertices are shared by other tetrahedra.

Following along [001] in sapphirine and [100] in surinamite, the thicknesses of octahedra and tetrahedra along the [010] direction are:

	sapphirine	surinamite
M	4 · 4 · 3 · 3 ·	3 · 3 · 3 · 2
T	1 · 1 · 2 · 2 ·	1 · 1 · 1 · 2

Introduction

Surinamite is a recent addition to the high-pressure granulite facies minerals, and was described by de Roever *et al.* (1976) from the Bakhuis Mountains, Surinam. The chemical composition, done by electron microprobe, presented a low total for the observed oxides, and they suggested possible presence of $(OH)^-$ groups in the structure. Extreme conditions of formation and close chemical and physical similarity to sapphirine were other reasons suggested for its rarity. But low oxide totals persisted in reports on new finds, Woodford and Wilson (1976) offering 97.05% oxide sum for an Australian occurrence. Recently, de Roever *et al.* (1981) resolved the problem. They failed to synthesize the phase in the system Mg-Fe-Al-Si-O-H but detected the presence of Be (4-5 wt.% BeO) by ARL ion microprobe analysis and atomic absorption spectrophotometric analysis on material from the type locality. Finally, they synthesized the phase in the system Mg-Fe-Al-Be-Si-O-H at 20 kbar and 800°C, and proposed the formula $(Mg,Fe)_3(Al,Fe)_4[BeSi_3O_{16}]$ which is confirmed in the present study. Since Grew (1981) independently reached the same conclusion, these findings then cast doubt on the crystal-chemical study by Moore (1976). Our present study appears to resolve these conflicts.

In addition, several crystallographic problems elicited our interest. Merlino (1973, 1980) demonstrated the appearance of order-disorder structures for sapphirines (which are structurally allied to surinamite). Merlino discussed order-disorder in terms of the fundamental study by Dornberger-Schiff (1956) on such structures.

Since Moore (1976) merely proposed a structure for surinamite, order-disorder remained a possibility and when single crystals became available, a three-dimensional structure refinement appeared desirable.

Experimental

Several grains of Christmas Point, Antarctica surinamite were kindly submitted to us by Edward S. Grew of UCLA. The chemistry and paragenesis of these grains were described by Grew (1981) in sample No. 2292C. Earlier, Moore (1976) derived cell contents and cell parameters from a tiny (40 μm) grain from the type locality in high-grade metamorphic rocks from the Bakhuis Mountains, western Surinam (De Roever *et al.*, 1976). To compare it with sapphirine, Moore earlier suggested $M_{60}T_{40}O_{160}$ for surinamite, where M = octahedrally coordinated and T = tetrahedrally coordinated cations by oxygen anions. With essential beryllium, our structure study leads to $M_{60}T_{50}O_{160}$ for the same oxygen stoichiometry as above. Our cell contents are $M_{24}T_{20}O_{64}$ for surinamite. Scaling by a factor of 2.5, it is clear that the absence of one tetrahedral occupancy (equivalent rank number 4 for a general position) leads to exactly Moore's (1976) proposed stoichiometry. Clearly, the culprit was earlier absence of the light element beryllium!

Actually, there is another flaw in Moore's (1976) study: the proposed structure cell is wrong. Due to the extremely small size of the type crystal, the Weissenberg photographs had to be exposed for four days each, and weak systematic superstructure reflections were not discernible due to the backscatter. The present and the earlier

2	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
4	0	0	0	76.0	69.6	-2	0	4	25.9	25.2	6	0	8	15.4	13.8	13	1	0	18.3	16.7
6	0	0	0	129.1	118.5	0	0	4	51.8	50.5	-11	0	9	24.6	23.8	-13	1	1	14.1	10.4
8	0	0	0	7.6	1.8	2	0	4	40.6	41.3	-9	0	9	27.2	26.4	-12	1	1	58.5	56.9
10	0	0	0	177.4	169.8	4	0	4	440.3	442.9	-7	0	9	76.2	75.8	-11	1	1	26.6	25.7
12	0	0	0	35.6	33.2	6	0	4	27.3	29.6	-5	0	9	17.3	17.3	-10	1	1	27.2	26.4
13	0	0	0	61.8	58.8	8	0	4	3.7	5.3	-3	0	9	36.4	36.2	-9	1	1	13.6	13.8
-11	0	0	0	21.5	18.8	10	0	4	13.2	12.4	-1	0	9	5.3	7.5	-8	1	1	85.2	83.6
-9	0	0	0	13.0	12.0	-13	0	5	6.8	10.1	1	0	9	61.6	60.9	-7	1	1	29.9	28.8
-7	0	0	0	4.4	4.0	-11	0	5	72.5	72.9	3	0	9	5.5	0.9	-6	1	1	22.9	22.3
-5	0	0	0	35.4	33.3	-9	0	5	11.2	7.3	5	0	9	11.0	8.8	-5	1	1	19.7	18.9
-3	0	0	0	24.8	23.1	-7	0	5	27.7	28.6	-12	0	10	67.1	66.6	-4	1	1	7.4	5.4
-1	0	0	0	0.5	1.1	-5	0	5	18.0	17.1	-10	0	10	1.0	2.4	-3	1	1	40.0	38.0
1	0	0	0	19.4	19.4	-3	0	5	83.7	84.6	-8	0	10	6.5	2.9	-2	1	1	11.4	11.8
3	0	0	0	0.3	0.3	-1	0	5	11.5	11.0	-6	0	10	32.3	30.9	-1	1	1	6.3	6.7
5	0	0	0	46.6	46.0	1	0	5	0.6	0.8	-4	0	10	44.5	44.7	0	1	1	26.7	25.3
7	0	0	0	19.3	21.9	3	0	5	12.1	11.6	-2	0	10	10.8	10.5	1	1	1	4.0	4.0
9	0	0	0	70.1	70.7	5	0	5	0.8	1.8	0	0	10	15.8	10.0	2	1	1	14.5	12.9
11	0	0	0	12.9	12.2	7	0	5	13.6	13.8	2	0	10	65.1	63.4	3	1	1	71.8	71.0
12	0	0	0	45.1	43.1	9	0	5	21.4	20.9	4	0	10	50.2	49.4	4	1	1	87.0	86.2
-10	0	0	0	12.6	6.8	-12	0	6	35.4	37.5	-11	0	11	50.2	49.4	5	1	1	20.8	21.9
-8	0	0	0	22.2	19.2	-10	0	6	41.5	43.3	-9	0	11	15.7	13.0	6	1	1	11.1	10.9
-6	0	0	0	188.6	187.8	-8	0	6	9.6	7.5	-7	0	11	60.9	59.4	7	1	1	63.5	64.5
-4	0	0	0	20.1	18.3	-6	0	6	0.7	2.5	-5	0	11	59.8	55.5	8	1	1	61.0	62.3
2	0	0	0	295.3	287.1	-4	0	6	245.9	251.8	-3	0	11	59.8	60.4	9	1	1	11.7	11.5
0	0	0	0	24.9	23.9	-2	0	6	7.9	5.2	-1	0	11	41.4	39.8	10	1	1	23.8	24.3
2	0	0	0	90.7	89.9	0	0	6	214.3	215.5	1	0	11	30.6	30.6	11	1	1	14.8	13.8
4	0	0	0	33.3	30.9	2	0	6	13.8	14.9	3	0	11	36.0	35.7	12	1	1	26.4	25.2
6	0	0	0	144.5	141.3	4	0	6	18.0	15.5	-10	0	12	40.7	40.1	-13	1	1	16.5	16.3
8	0	0	0	7.1	4.4	6	0	6	13.9	16.5	-8	0	12	8.2	10.4	-12	1	1	4.6	4.7
10	0	0	0	175.0	172.2	8	0	6	73.7	72.8	-6	0	12	1.1	6.4	-11	1	1	6.3	1.7
12	0	0	0	7.1	1.6	-13	0	7	9.0	7.8	-4	0	12	195.4	193.9	-10	1	1	3.3	4.4
-13	0	0	0	57.8	56.4	-11	0	7	40.1	39.9	-2	0	12	4.2	4.5	-9	1	1	30.9	30.4
-11	0	0	0	45.0	43.3	-9	0	7	76.3	76.8	0	0	12	17.8	16.2	-8	1	1	11.6	11.7
-9	0	0	0	26.8	27.2	-7	0	7	70.8	70.1	-7	0	13	18.7	23.0	-7	1	1	36.4	36.6
-7	0	0	0	34.5	33.9	-5	0	7	43.2	44.0	-5	0	13	30.8	31.0	-5	1	1	55.5	57.7
-5	0	0	0	86.0	86.5	-3	0	7	75.4	76.6	-3	0	13	45.8	45.3	-5	1	1	13.9	13.3
-3	0	0	0	63.7	62.6	-1	0	7	63.9	65.2	-1	0	13	10.1	15.0	-4	1	1	28.4	27.3
-1	0	0	0	96.5	94.8	1	0	7	62.1	63.7	0	0	13	10.1	17.1	-3	1	1	25.8	25.1
1	0	0	0	4.2	5.7	3	0	7	9.9	8.3	1	0	13	17.0	17.1	-2	1	1	25.8	25.1
3	0	0	0	78.7	78.2	5	0	7	52.4	54.6	1	0	13	10.4	18.0	-2	1	1	23.1	21.0
5	0	0	0	21.7	22.2	7	0	7	20.1	18.9	2	0	13	19.5	15.6	-1	1	1	15.6	15.3
7	0	0	0	23.8	23.7	-12	0	8	9.6	10.4	3	0	13	10.5	10.0	0	1	1	13.6	13.8
9	0	0	0	13.3	13.8	-10	0	8	1.0	10.1	4	0	13	38.3	37.7	-10	1	1	34.2	33.5
11	0	0	0	15.4	14.7	-8	0	8	290.4	295.1	5	0	13	44.2	42.4	2	1	1	137.6	132.5
-12	0	0	0	7.4	1.6	-6	0	8	20.1	20.8	6	0	13	139.1	134.2	3	1	1	3.5	3.1
-10	0	0	0	198.6	196.9	-4	0	8	20.1	20.8	7	0	13	9.8	9.3	4	1	1	23.7	22.9
-8	0	0	0	17.1	18.1	-2	0	8	27.3	31.9	8	0	13	23.8	25.2	5	1	1	25.1	25.7
-6	0	0	0	18.9	17.0	0	0	8	37.6	31.2	9	0	13	25.8	24.4	6	1	1	12.5	13.1
4	0	0	0	60.1	60.4	0	0	8	162.9	164.7	10	0	13	22.0	19.9	7	1	1	44.8	46.3
2	0	0	0	349.4	348.8	2	0	8	29.5	31.4	11	0	13	28.8	27.6	8	1	1	30.9	32.7
0	0	0	0	83.7	82.4	4	0	8	83.7	82.4	12	0	13	32.2	31.1	9	1	1	23.7	24.7

10	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
11	1	1	2	26.6	26.0	9	1	4	30.7	30.7	-13	1	7	1.1	0.8	-5	1	9	14.7	7.3					
12	1	1	2	18.9	18.9	10	1	4	64.7	64.8	-12	1	7	68.4	67.5	-4	1	9	65.7	64.2					
13	1	1	2	8.1	6.1	11	1	4	14.4	13.8	-11	1	7	51.0	51.1	-3	1	9	37.2	36.9					
13	1	1	3	35.9	35.3	-13	1	5	6.2	6.9	-10	1	7	21.9	22.6	-2	1	9	11.5	1.5					
12	1	1	3	83.6	83.2	-12	1	5	2.2	4.3	-9	1	7	44.2	44.6	-1	1	9	20.8	17.7					
11	1	1	3	13.6	14.7	-11	1	5	35.9	37.0	-8	1	7	30.0	28.6	0	1	9	38.4	38.5					
10	1	1	3	9.3	11.7	-10	1	5	15.8	14.2	-7	1	7	22.6	23.1	1	1	9	26.1	23.9					
9	1	1	3	23.3	24.0	-9	1	5	8.7	7.6	-6	1	7	2.3	0.9	2	1	9	15.6	15.0					
8	1	1	3	36.5	37.7	-8	1	5	108.0	107.7	-5	1	7	36.1	37.0	3	1	9	8.3	4.7					
7	1	1	3	36.5	36.3	-7	1	5	43.3	44.1	-4	1	7	9.2	7.9	4	1	9	58.1	58.5					
6	1	1	3	14.1	13.7	-6	1	5	10.2	11.3	-3	1	7	38.5	39.0	5	1	9	13.4	12.0					
5	1	1	3	41.2	40.1	-5	1	5	19.0	19.3	-2	1	7	31.1	30.3	6	1	9	19.3	19.9					
4	1	1	3	77.7	76.2	-4	1	5	84.6	86.3	-1	1	7	35.2	35.0	-12	1	10	36.6	34.4					
3	1	1	3	88.2	86.8	-3	1	5	42.4	42.4	0	1	7	41.0	44.6	-11	1	10	16.2	14.7					
2	1	1	3	8.5	5.7	-2	1	5	16.1	16.6	1	1	7	50.9	54.0	-10	1	10	4.6	1.6					
1	1	1	3	34.1	33.4	-1	1	5	12.6	12.7	2	1	7	0.9	3.8	-9	1	10	7.4	5.6					
0	1	1	3	174.7	168.2	0	1	5	93.7	94.2	3	1	7	20.5	22.3	-8	1	10	20.7	20.6					
1	1	1	3	69.5	69.0	1	1	5	24.0	25.2	4	1	7	61.1	60.9	-7	1	10	15.6	14.6					
2	1	1	3	33.7	32.7	2	1	5	32.4	33.2	5	1	7	36.2	37.4	-6	1	10	35.0	34.6					
3	1	1	3	0.8	2.5	3	1	5	2.2	2.7	6	1	7	8.6	8.1	-5	1	10	25.1	25.3					
4	1	1	3	66.9	66.8	4	1	5	96.7	98.6	7	1	7	5.5	1.6	-4	1	10	22.9	21.5					
5	1	1	3	15.1	16.0	5	1	5	9.8	8.7	8	1	7	33.0	31.9	-3	1	10	2.8	1.1					
6	1	1	3	6.5	0.9	6	1	5	0.9	2.2	-13	1	8	16.0	15.9	-2	1	10	13.5	13.0					
7	1	1	3	24.8	25.1	7	1	5	37.0	36.7	-12	1	8	10.7	8.0	4	1	10	22.7	23.0					
8	1	1	3	35.9	35.3	8	1	5	21.9	20.9	-11	1	8	7.3	6.4	0	1	10	40.7	26.5					
9	1	1	3	13.2	12.1	9	1	5	12.3	11.1	-10	1	8	38.4	38.3	1	1	10	4.3	1.3					
10	1	1	3	7.6	6.9	10	1	5	1.1	0.1	-9	1	8	0.9	1.0	2	1	10	35.3	33.0					
11	1	1	3	10.7	12.1	-13	1	6	3.6	2.9	-8	1	8	26.5	24.4	3	1	10	6.6	7.5					
13	1	1	4	13.8	13.0	-12	1	6	28.1	28.1	-7	1	8	33.8	34.5	4	1	10	13.0	6.1					
11	1	1	4	8.6	6.2	-11	1	6	1.2	3.0	-6	1	8	8.1	10.6	5	1	10	19.1	19.4					
10	1	1	4	36.8	36.1	-10	1	6	40.2	40.6	-5	1	8	11.8	9.9	-11	1	11	44.8	42.6					
9	1	1	4	0.9	1.5	-9	1	6	30.4	30.9	-4	1	8	17.7	21.3	-10	1	11	16.2	14.8					
8	1	1	4	11.1	11.8	-8	1	6	5.0	5.6	-3	1	8	17.1	17.1	-9	1	11	3.8	2.6					
7	1	1	4	10.5	11.6	-7	1	6	4.4	1.2	-2	1	8	92.6	94.2	-8	1	11	76.6	77.1					
6	1	1	4	10.4	11.2	-6	1	6	2.8	2.7	-1	1	8	10.0	8.7	-7	1	11	54.1	52.2					
5	1	1	4	70.3	71.6	-5	1	6	0.7	1.4	0	1	8	16.4	14.2	-6	1	11	1.0	4.0					
4	1	1	4	32.0	31.5	-4	1	6	30.3	29.9	1	1	8	14.3	14.1	-5	1	11	33.5	32.2					
3	1	1	4	25.3	26.5	-3	1	6	28.0	28.1	2	1	8	29.8	29.5	-4	1	11	38.9	38.7					
2	1	1	4	10.1	11.1	-2	1	6	62.4	65.1	3	1	8	21.9	22.4	-3	1	11	21.3	18.7					
1	1	1	4	113.3	112.0	-1	1	6	7.2	5.2	4	1	8	22.2	19.5	-2	1	11	7.8	5.1					
0	1	1	4	11.5	11.4	0	1	6	10.6	10.0	5	1	8	11.8	12.8	-1	1	11	29.5	27.0					
1	1	1	4	12.8	13.5	1	1	6	20.2	21.1	6	1	8	5.4	6.4	0	1	11	23.6	23.4					
2	1	1	4	2.6	1.3	2	1	6	25.5	26.0	7	1	8	24.9	23.4	1	1	11	16.7	16.4					
3	1	1	4	16.0	13.6	3	1	6	1.0	0.9	-12	1	9	10.4	9.1	2	1	11	18.9	21.2					
4	1	1	4	45.3	46.0	4	1	6	13.4	14.2	-11	1	9	15.5	11.7	3	1	11	14.7	14.3					
5	1	1	4	19.5	20.2	5	1	6	28.9	29.2	-10	1	9	9.7	7.4	-9	1	12	25.4	25.6					
6	1	1	4	28.2	28.7	6	1	6	54.9	55.1	-9	1	9	4.0	6.5	-8	1	12	13.2	13.1					
7	1	1	4	18.4	19.1	7	1	6	24.4	24.9	-8	1	9	32.5	32.3	-7	1	12	4.1	0.5					
8	1	1	4	10.6	10.5	8	1	6	25.4	25.8	-7	1	9	44.7	43.1	-7	1	12	1.9	1.7					
8	1	1	4	24.1	22.0	9	1	6	14.7	16.0	-6	1	9	10.2	3.2	-6	1	12	31.1	30.4					

-5	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-4	1	1	12	12.8	11.7	8	2	1	16.7	19.4	6	2	3	40.3	41.7	6	2	5	72.4	73.9
-3	1	1	12	35.1	18.6	9	2	1	4.2	4.8	7	2	3	34.2	35.2	7	2	5	28.2	27.4
-2	1	1	12	11.3	11.9	10	2	1	26.8	24.5	8	2	3	6.9	10.3	8	2	5	20.1	19.8
-1	1	1	12	8.2	6.5	11	2	1	10.9	9.2	9	2	3	13.4	13.3	9	2	5	28.1	27.5
0	1	1	12	20.5	20.5	12	2	1	53.1	51.5	10	2	3	42.4	41.8	10	2	5	10.3	11.2
1	1	1	12	19.2	19.6	11	2	2	26.9	27.0	11	2	4	10.5	8.9	11	2	6	11.1	9.2
-8	1	1	13	25.6	24.7	12	2	2	18.9	18.0	12	2	4	4.9	4.8	12	2	6	16.8	15.4
-7	1	1	13	1.1	5.7	10	2	2	26.5	27.2	11	2	4	33.8	34.0	11	2	6	7.8	9.5
-6	1	1	13	8.3	5.7	9	2	2	36.8	36.4	10	2	4	15.2	15.2	10	2	6	13.1	12.7
-5	1	1	13	12.6	12.0	8	2	2	6.0	6.3	9	2	4	15.2	14.0	8	2	6	31.2	32.0
-4	1	1	13	53.1	51.9	7	2	2	17.7	18.0	7	2	4	6.4	2.1	7	2	6	25.9	25.5
-3	1	1	13	22.5	23.7	6	2	2	17.0	17.8	6	2	4	11.5	12.0	6	2	6	10.5	11.2
-2	1	1	13	7.0	7.9	5	2	2	18.3	17.8	5	2	4	12.5	13.6	5	2	6	32.0	32.4
-1	1	1	13	4.4	9.0	4	2	2	16.2	14.6	4	2	4	15.8	15.7	4	2	6	5.7	4.1
0	1	1	13	39.7	33.6	3	2	2	17.8	17.2	3	2	4	29.1	28.2	3	2	6	8.8	7.3
1	2	2	0	1.6	2.3	2	2	2	55.3	53.0	2	2	4	29.2	28.8	2	2	6	6.2	4.9
2	2	2	0	1.8	4.0	1	2	2	3.0	1.2	1	2	4	14.7	13.9	1	2	6	29.0	29.7
3	2	2	0	18.1	17.6	0	2	2	6.0	6.6	0	2	4	3.4	1.7	0	2	6	3.6	2.4
4	2	2	0	20.2	19.8	0	2	2	8.2	8.2	0	2	4	19.3	17.6	0	2	6	8.0	6.6
5	2	2	0	30.3	31.7	2	2	2	54.3	53.0	1	2	4	8.8	8.2	1	2	6	6.2	5.5
6	2	2	0	29.2	29.4	3	2	2	28.5	28.6	2	2	4	15.6	15.1	2	2	6	43.3	44.7
7	2	2	0	41.4	41.5	4	2	2	49.2	49.4	3	2	4	18.4	18.7	3	2	6	20.7	21.8
8	2	2	0	30.7	32.0	5	2	2	17.7	18.1	4	2	4	49.9	52.2	4	2	6	10.2	10.2
9	2	2	0	23.6	23.5	6	2	2	13.3	13.0	5	2	4	16.4	16.5	5	2	6	25.5	25.3
10	2	2	0	33.4	31.7	7	2	2	21.4	21.5	6	2	4	29.6	28.7	6	2	6	30.0	30.4
11	2	2	0	11.8	12.0	8	2	2	3.5	7.4	7	2	4	25.2	25.1	7	2	6	24.5	24.3
12	2	2	0	25.4	24.7	9	2	2	15.2	17.0	8	2	4	9.3	10.9	8	2	6	32.7	32.1
13	2	2	0	3.2	5.5	10	2	2	34.4	33.1	9	2	4	27.5	27.8	9	2	6	10.2	10.4
-12	2	2	1	26.1	24.4	11	2	2	16.5	17.5	10	2	4	2.1	2.1	10	2	7	28.5	26.8
-11	2	2	1	13.7	9.5	12	2	2	20.0	19.3	11	2	4	28.3	28.2	11	2	7	1.8	3.6
-10	2	2	1	27.6	25.6	13	2	2	2.5	1.5	12	2	4	2.1	4.7	12	2	7	30.4	30.3
-9	2	2	1	60.8	59.8	11	2	2	14.2	14.2	11	2	5	44.9	43.6	11	2	7	20.4	20.3
-8	2	2	1	22.9	23.7	10	2	2	5.4	6.7	10	2	5	14.1	13.6	10	2	7	6.5	6.5
-7	2	2	1	8.6	7.7	9	2	2	19.0	18.8	9	2	5	26.8	28.2	9	2	7	5.7	2.3
-6	2	2	1	57.3	55.6	8	2	2	74.0	76.2	8	2	5	50.1	50.3	8	2	7	15.0	16.5
-5	2	2	1	3.8	0.9	7	2	2	21.5	21.3	7	2	5	54.1	54.1	7	2	7	32.3	32.1
-4	2	2	1	9.6	10.9	6	2	2	18.2	19.4	6	2	5	24.2	24.8	6	2	7	34.6	36.3
-3	2	2	1	78.7	76.6	5	2	2	3.3	4.0	5	2	5	56.6	57.6	5	2	7	11.2	12.2
-2	2	2	1	47.6	44.5	4	2	2	64.7	64.7	4	2	5	79.4	80.0	4	2	7	30.8	31.9
-1	2	2	1	2.7	3.7	3	2	2	58.9	58.2	3	2	5	16.0	17.3	3	2	7	8.7	8.5
0	2	2	1	3.2	3.0	2	2	2	61.7	64.7	2	2	5	13.8	13.8	2	2	7	64.5	67.2
1	2	2	1	2.2	1.1	1	2	2	138.5	133.9	1	2	5	31.4	29.1	1	2	7	52.8	55.1
2	2	2	1	108.0	102.6	0	2	2	69.0	68.0	0	2	5	16.1	15.2	0	2	7	81.6	84.2
3	2	2	1	66.2	65.1	1	2	2	98.2	95.4	1	2	5	33.0	34.2	1	2	7	31.3	33.0
4	2	2	1	61.1	62.0	2	2	2	65.6	65.5	2	2	5	48.7	50.0	2	2	7	37.3	37.7
5	2	2	1	60.9	62.9	3	2	2	72.4	72.9	3	2	5	3.0	1.2	3	2	7	39.1	34.0
6	2	2	1	71.5	72.9	4	2	2	22.9	22.6	4	2	5	7.4	5.5	4	2	7	24.1	23.4
7	2	2	1	29.8	32.3	5	2	2	29.6	30.6	5	2	5	49.0	50.5	5	2	7	16.6	17.2
									0.7	1.6				7.1	6.7				10.6	9.2

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-13	2	8	15.3	15.8	-2	2	10	11.0	11.1	10	3	0	24.8	24.5	8	3	2	34.1	35.5					
-12	2	8	28.3	28.7	-1	2	10	11.1	11.0	11	3	0	1.0	0.6	9	3	2	24.3	21.6					
-11	2	8	8.4	8.6	0	2	10	10.0	8.0	12	3	0	10.4	9.9	10	3	2	16.9	18.2					
-10	2	8	10.3	10.9	1	2	10	4.5	3.9	-13	3	1	39.7	41.2	11	3	2	16.7	18.4					
-9	2	8	10.7	12.0	2	2	10	46.3	46.0	-12	3	1	10.1	10.9	12	3	2	21.7	22.2					
-8	2	8	23.3	22.2	3	2	10	4.0	3.8	-11	3	1	3.2	3.3	-13	3	3	26.1	25.4					
-7	2	8	16.4	20.1	4	2	10	13.3	13.3	-10	3	1	80.8	81.5	-12	3	3	9.1	11.0					
-6	2	8	2.7	4.4	5	2	10	13.1	10.9	-9	3	1	64.4	65.7	-11	3	3	31.7	32.4					
-5	2	8	12.5	13.5	-11	2	11	20.3	17.7	-8	3	1	28.5	30.6	-10	3	3	33.7	34.2					
-4	2	8	14.9	15.6	-10	2	11	39.3	39.9	-7	3	1	51.6	53.0	-9	3	3	5.4	9.5					
-3	2	8	3.2	3.3	-9	2	11	33.3	35.0	-6	3	1	137.6	137.7	-8	3	3	4.5	4.4					
-2	2	8	11.4	11.5	-8	2	11	28.3	23.7	-5	3	1	31.0	30.9	-7	3	3	20.5	20.0					
-1	2	8	4.5	4.9	-7	2	11	30.3	28.4	-4	3	1	51.9	52.9	-6	3	3	56.0	57.1					
0	2	8	26.3	25.8	-6	2	11	12.0	14.9	-3	3	1	58.1	56.9	-5	3	3	52.4	52.5					
1	2	8	2.8	0.7	-5	2	11	5.7	5.5	-2	3	1	6.4	5.3	-4	3	3	2.8	2.2					
2	2	8	9.0	12.2	-4	2	11	14.4	11.1	-1	3	1	20.7	21.1	-3	3	3	21.2	21.9					
3	2	8	9.8	11.9	-3	2	11	17.9	19.3	0	3	1	6.1	5.0	-2	3	3	166.0	162.4					
4	2	8	37.4	38.5	-2	2	11	5.8	7.6	1	3	1	2.3	1.1	-1	3	3	50.9	51.2					
5	2	8	10.7	9.4	-1	2	11	18.7	16.5	2	3	1	178.8	171.9	0	3	3	12.0	10.5					
6	2	8	14.4	12.5	0	2	11	3.2	2.8	3	3	1	36.5	35.6	1	3	3	48.3	49.3					
7	2	8	15.1	14.9	1	2	11	5.4	3.7	4	3	1	16.5	17.6	2	3	3	169.8	168.4					
-12	2	9	26.5	26.5	2	2	11	47.1	49.1	5	3	1	46.9	48.1	3	3	3	3.0	2.7					
-11	2	9	33.2	33.7	3	2	11	2.2	1.0	6	3	1	139.0	141.7	4	3	3	9.6	11.0					
-10	2	9	43.7	44.0	-9	2	12	13.3	13.0	7	3	1	16.8	18.4	5	3	3	15.0	14.3					
-9	2	9	8.6	5.6	-8	2	12	10.2	9.0	8	3	1	7.1	4.9	6	3	3	37.9	39.7					
-8	2	9	24.6	23.3	-7	2	12	9.3	8.9	9	3	1	28.9	29.6	7	3	3	34.6	34.6					
-7	2	9	10.3	7.4	-6	2	12	7.0	7.0	10	3	1	5.4	6.5	8	3	3	32.7	33.8					
-6	2	9	59.9	59.7	-5	2	12	4.1	15.8	11	3	1	3.1	3.6	9	3	3	16.8	17.1					
-5	2	9	57.9	57.5	-4	2	12	31.6	30.9	12	3	1	7.0	1.7	10	3	3	108.9	108.6					
-4	2	9	65.3	65.5	-3	2	12	13.9	15.1	-13	3	2	5.8	7.9	11	3	3	30.1	29.3					
-3	2	9	30.2	29.7	-2	2	12	20.7	20.8	-12	3	2	61.3	62.9	-13	3	3	5.2	4.9					
-2	2	9	60.1	56.8	-1	2	12	3.5	4.9	-11	3	2	14.1	14.5	-12	3	3	42.1	40.9					
-1	2	9	46.9	44.8	0	2	12	3.2	2.7	-10	3	2	20.3	20.3	-11	3	3	6.0	3.7					
0	2	9	22.4	21.0	1	2	12	9.8	9.8	-9	3	2	12.0	11.8	-10	3	3	29.8	31.2					
1	2	9	15.8	15.6	-7	2	13	30.4	29.5	-8	3	2	30.7	33.9	-9	3	3	18.7	18.4					
2	2	9	7.1	5.6	-6	2	13	9.9	9.5	-7	3	2	4.4	3.0	-8	3	3	21.7	21.7					
3	2	9	9.7	9.2	-5	2	13	8.9	8.2	-6	3	2	22.3	22.8	-7	3	3	13.0	13.1					
4	2	9	25.6	22.0	-4	2	13	17.3	18.9	-5	3	2	28.4	28.8	-6	3	3	16.6	16.7					
5	2	9	11.6	11.6	-3	2	13	1.1	2.4	-4	3	2	59.6	57.5	-5	3	3	38.8	39.4					
6	2	9	13.9	11.2	-2	2	13	56.8	54.5	-3	3	2	10.6	10.0	-4	3	3	73.8	74.8					
-12	2	10	9.2	1.9	0	2	13	63.9	61.2	-2	3	2	56.5	55.6	-3	3	3	27.6	27.8					
-11	2	10	7.1	9.5	1	2	13	16.3	15.3	-1	3	2	23.7	23.8	-2	3	3	26.8	27.2					
-10	2	10	1.5	2.1	2	2	13	16.0	16.7	0	3	2	176.1	169.7	-1	3	3	16.1	16.0					
-9	2	10	6.6	6.2	3	2	13	6.7	7.2	1	3	2	19.1	19.2	0	3	3	63.1	61.8					
-8	2	10	4.7	0.6	4	2	13	70.4	69.1	2	3	2	63.3	63.6	1	3	3	34.4	34.9					
-7	2	10	6.4	4.9	5	2	13	15.6	15.7	3	3	2	33.6	33.6	2	3	3	5.1	6.9					
-6	2	10	23.8	23.3	6	2	13	24.4	24.9	4	3	2	66.5	67.6	3	3	3	5.7	6.8					
-5	2	10	20.7	20.1	7	2	13	22.9	23.5	5	3	2	11.5	12.1	4	3	3	22.7	26.6					
-4	2	10	20.2	17.0	8	2	13	59.0	60.3	6	3	2	2.5	0.8	5	3	3	19.2	20.0					
-3	2	10	12.3	12.3	9	2	13	5.3	2.2	7	3	2	0.8	1.6	6	3	3	21.9	22.5					

7	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
8	R	3	4	24.7	24.8	9	3	6	23.0	22.8	-6	3	9	82.4	81.2	-4	3	12	46.4	44.2
9	3	3	4	15.8	15.6	-13	3	7	30.0	29.3	-5	3	9	74.2	74.8	-3	3	12	5.6	5.3
10	3	3	4	8.5	6.3	-12	3	7	10.9	11.5	-4	3	9	9.2	3.9	-2	3	12	5.0	5.8
11	3	3	4	1.3	3.2	-11	3	7	1.0	2.6	-3	3	9	8.6	5.7	-1	3	12	14.0	13.1
12	3	3	5	19.5	19.6	-10	3	7	99.3	98.5	-2	3	9	114.7	114.9	0	3	12	20.3	20.5
13	3	3	5	18.6	18.8	-9	3	7	38.0	37.9	-1	3	9	64.2	63.9	1	3	12	6.5	7.4
14	3	3	5	27.9	28.8	-8	3	7	8.8	10.4	0	3	9	6.0	8.4	-7	3	13	35.1	34.9
15	3	3	5	81.1	81.4	-7	3	7	46.3	46.6	1	3	9	24.7	24.8	-6	3	13	23.6	23.8
16	3	3	5	77.6	77.7	-6	3	7	14.4	16.6	2	3	9	22.8	23.1	-5	3	13	27.9	27.4
17	3	3	5	10.8	11.1	-5	3	7	2.3	4.9	3	3	9	13.3	12.5	-4	3	13	15.8	17.0
18	3	3	5	10.4	8.9	-4	3	7	22.0	22.6	4	3	9	15.8	17.6	-3	3	13	23.5	24.6
19	3	3	5	153.7	155.9	-3	3	7	21.0	24.2	5	3	9	20.4	20.0	-2	3	13	49.4	47.8
20	3	3	5	93.4	94.5	-2	3	7	124.1	125.2	6	3	9	43.5	44.3	0	4	13	8.5	2.1
21	3	3	5	8.3	10.9	-1	3	7	34.7	35.2	-11	3	10	7.7	5.3	1	4	13	7.9	7.7
22	3	3	5	56.5	56.8	0	3	7	1.9	1.6	-10	3	10	11.6	10.5	2	4	13	283.6	280.7
23	3	3	5	27.7	27.4	1	3	7	23.2	23.5	-9	3	10	25.5	24.9	3	4	13	5.6	4.7
24	3	3	5	25.0	25.4	2	3	7	73.2	73.9	-8	3	10	33.2	32.6	4	4	13	5.8	5.0
25	3	3	5	20.3	21.8	3	3	7	24.6	25.0	-7	3	10	9.6	10.4	5	4	13	29.9	30.5
26	3	3	5	46.3	47.5	4	3	7	3.5	2.2	-6	3	10	5.9	3.6	6	4	13	11.0	9.6
27	3	3	5	62.1	62.9	5	3	7	31.4	30.6	-5	3	10	24.4	23.3	7	4	13	12.3	12.6
28	3	3	5	8.9	7.0	6	3	7	55.7	56.2	-4	3	10	39.4	39.5	8	4	13	0.8	5.2
29	3	3	5	20.7	20.8	7	3	7	3.2	0.9	-3	3	10	3.4	4.6	9	4	13	26.5	26.8
30	3	3	5	9.4	6.3	8	3	7	4.2	1.7	-2	3	10	8.5	9.6	10	4	13	60.4	62.0
31	3	3	5	100.9	100.7	-13	3	8	15.5	15.7	-1	3	10	9.7	8.6	11	4	13	6.5	8.6
32	3	3	5	14.3	15.1	-12	3	8	4.8	4.2	0	3	10	12.6	12.4	12	4	13	4.9	1.6
33	3	3	5	15.2	13.5	-11	3	8	11.1	9.6	1	3	10	29.2	29.1	-13	4	13	40.8	41.9
34	3	3	5	21.4	21.3	-10	3	8	26.7	27.2	2	3	10	17.5	15.7	-12	4	13	1.1	3.6
35	3	3	5	41.4	40.7	-9	3	8	3.9	3.2	3	3	10	15.9	16.8	-11	4	13	23.9	22.8
36	3	3	5	2.7	5.8	-8	3	8	64.9	64.5	4	3	10	4.3	5.7	-10	4	13	13.0	15.4
37	3	3	5	5.3	5.7	-7	3	8	8.8	6.6	5	3	10	2.9	3.0	-9	4	13	27.7	28.4
38	3	3	5	7.0	9.1	-6	3	8	13.9	11.0	-11	3	10	8.7	7.3	-8	4	13	9.4	8.7
39	3	3	5	2.9	3.1	-5	3	8	3.4	4.2	-10	3	10	64.4	64.0	-7	4	13	48.9	50.0
40	3	3	5	23.7	24.4	-4	3	8	39.6	41.1	-9	3	10	40.9	39.7	-6	4	13	3.6	2.9
41	3	3	5	78.1	80.6	-3	3	8	15.1	15.9	-8	3	10	4.2	0.6	-5	4	13	37.6	37.5
42	3	3	5	11.2	11.7	-2	3	8	1.9	2.3	-7	3	10	3.5	2.2	-4	4	13	64.8	64.2
43	3	3	5	24.3	25.8	-1	3	8	41.2	41.6	0	3	10	71.4	71.6	-3	4	13	11.0	11.6
44	3	3	5	10.2	10.8	0	3	8	59.9	60.3	-6	3	10	32.7	32.0	-2	4	13	16.8	16.6
45	3	3	5	4.1	6.2	1	3	8	3.5	0.7	-4	3	10	11.5	11.5	-1	4	13	49.3	49.2
46	3	3	5	34.8	35.0	2	3	8	5.3	4.4	-3	3	10	33.0	32.3	0	4	13	37.8	37.2
47	3	3	5	15.7	17.5	3	3	8	9.0	8.1	-2	3	10	42.4	40.9	1	4	13	3.2	2.7
48	3	3	5	4.3	5.2	4	3	8	1.0	2.9	-1	3	10	5.6	4.2	2	4	13	14.0	13.7
49	3	3	5	7.4	5.0	5	3	8	28.1	28.7	0	3	10	20.7	19.9	3	4	13	37.4	38.3
50	3	3	5	3.6	5.2	6	3	8	15.7	13.2	1	3	10	10.7	11.1	4	4	13	14.3	13.6
51	3	3	5	55.4	56.6	7	3	8	18.5	18.9	2	3	10	92.2	92.1	5	4	13	4.6	4.8
52	3	3	5	30.7	31.3	-12	3	9	22.0	19.5	-9	3	10	9.6	9.3	6	4	13	7.7	8.5
53	3	3	5	115.4	117.3	-11	3	9	33.4	33.1	-8	3	10	10.6	10.7	7	4	13	42.8	43.5
54	3	3	5	2.1	1.1	-10	3	9	4.7	3.9	-7	3	10	5.5	4.8	8	4	13	27.7	27.7
55	3	3	5	24.1	24.7	-9	3	9	33.4	32.9	-6	3	10	27.6	26.2	9	4	13	49.3	49.7
56	3	3	5	14.2	15.6	-8	3	9	1.8	3.0	-5	3	10	31.7	31.2	10	4	13	2.1	0.6
57	3	3	5	14.2	12.8	-7	3	9	38.5	38.6	-5	3	10	6.0	7.3	11	4	13	7.7	6.0

12	4	1	1.1	4.2	11	4	3	14.9	15.1	-12	4	6	25.3	24.9	-6	4	8	129.3	130.5
-13	4	2	16.5	17.3	-13	4	4	19.4	20.8	-11	4	6	10.8	11.3	-5	4	8	19.4	18.7
-11	4	2	17.8	19.2	-12	4	4	25.9	27.8	-10	4	6	88.9	89.5	-4	4	8	2.5	0.9
-11	4	2	3.5	6.7	-11	4	4	18.8	19.1	-9	4	6	29.3	28.3	-3	4	8	3.0	4.8
-10	4	2	12.5	12.1	-10	4	4	127.6	127.8	-8	4	6	18.2	18.7	-2	4	8	0.8	1.9
-9	4	2	24.4	24.8	-9	4	4	18.7	18.6	-7	4	6	10.4	11.2	-1	4	8	24.2	24.5
-8	4	2	28.7	29.5	-8	4	4	15.0	14.4	-6	4	6	10.3	10.0	0	4	8	1.9	4.2
-7	4	2	25.8	26.3	-7	4	4	9.0	9.0	-5	4	6	28.5	27.8	1	4	8	4.0	4.2
-6	4	2	429.9	445.5	-6	4	4	54.0	53.9	-4	4	6	32.5	34.0	2	4	8	68.2	70.5
-5	4	2	29.5	29.6	-5	4	4	38.2	37.7	-3	4	6	23.0	22.4	3	4	8	6.2	3.0
-4	4	2	12.7	13.1	-4	4	4	10.3	10.1	-2	4	6	432.2	438.5	4	4	8	5.1	5.4
-3	4	2	6.7	6.1	-3	4	4	13.8	13.1	-1	4	6	14.9	15.5	5	4	8	3.1	3.7
-2	4	2	116.9	114.1	-2	4	4	70.6	69.1	0	4	6	19.5	20.9	6	4	8	105.6	106.3
0	4	2	54.8	52.7	-1	4	4	22.0	22.6	1	4	6	2.8	6.4	7	4	8	1.1	6.4
1	4	2	17.2	17.2	0	4	4	8.4	9.5	2	4	6	33.3	35.4	7	4	8	5.8	6.0
2	4	2	333.4	330.5	1	4	4	0.7	2.0	3	4	6	3.5	4.6	-12	4	9	23.8	23.1
3	4	2	5.8	4.5	2	4	4	4.9	5.6	4	4	6	10.9	8.1	-11	4	9	8.4	11.4
4	4	2	56.7	58.4	3	4	4	9.1	9.5	5	4	6	15.3	13.6	-10	4	9	58.7	58.7
5	4	2	16.7	16.8	4	4	4	18.6	19.0	6	4	6	101.7	103.0	-9	4	9	3.8	1.9
6	4	2	54.3	53.4	5	4	4	120.7	122.4	7	4	6	1.0	2.2	-8	4	9	44.3	44.6
7	4	2	14.3	14.1	6	4	4	6.5	6.8	8	4	6	29.3	29.1	-6	4	9	12.9	12.3
8	4	2	10.3	9.6	7	4	4	23.5	23.0	9	4	6	9.6	11.2	-5	4	9	66.6	66.0
9	4	2	22.7	22.0	8	4	4	14.2	15.1	-13	4	7	12.4	11.9	-4	4	9	2.5	3.8
10	4	2	179.1	178.1	9	4	4	5.9	4.2	-12	4	7	4.4	5.8	-3	4	9	14.4	14.2
11	4	2	10.3	12.2	10	4	4	45.5	45.8	-11	4	7	16.8	16.4	-2	4	9	7.1	0.8
-13	4	3	2.6	7.5	-13	4	4	7.3	4.5	-10	4	7	38.3	38.2	0	4	9	67.3	67.6
-12	4	3	2.8	1.3	-12	4	4	24.6	24.8	-9	4	7	3.0	0.6	1	4	9	27.1	28.0
-11	4	3	22.3	23.2	-11	4	4	14.8	14.9	-8	4	7	30.7	31.6	0	4	9	16.8	17.5
-10	4	3	11.5	11.8	-9	4	4	68.1	68.3	-7	4	7	3.0	0.3	1	4	9	7.3	5.7
-9	4	3	3.6	5.4	-8	4	4	10.8	10.6	-6	4	7	21.9	20.8	2	4	9	37.2	36.2
-8	4	3	18.4	17.9	-7	4	4	6.5	7.0	-5	4	7	42.3	42.3	4	4	9	10.7	10.8
-7	4	3	1.7	3.6	-6	4	4	13.3	14.2	-4	4	7	22.3	22.9	5	4	9	26.8	26.3
-6	4	3	1.7	4.7	-5	4	4	65.2	65.8	-3	4	7	3.8	2.7	6	4	9	5.5	8.3
-5	4	3	74.9	75.0	-4	4	4	11.3	10.6	-2	4	7	49.1	49.8	-11	4	10	14.7	13.1
-4	4	3	16.1	15.8	-3	4	4	57.0	57.2	-1	4	7	2.6	1.1	-10	4	10	18.2	19.1
-3	4	3	21.2	21.9	-2	4	4	12.0	12.0	0	4	7	4.5	2.1	-9	4	10	21.0	20.4
-2	4	3	1.6	3.1	-1	4	4	63.6	64.6	1	4	7	0.9	1.4	-8	4	10	10.3	12.1
-1	4	3	23.7	24.0	0	4	4	42.0	42.1	2	4	7	31.0	31.2	-6	4	10	83.9	83.2
0	4	3	54.9	54.1	1	4	4	27.3	28.9	3	4	7	28.9	28.7	-5	4	10	10.3	12.1
1	4	3	33.1	34.2	2	4	4	14.5	15.7	4	4	7	23.0	23.0	-4	4	10	23.1	23.6
2	4	3	12.7	12.2	3	4	4	23.8	23.8	5	4	7	5.0	5.3	-3	4	10	12.3	9.4
3	4	3	26.6	27.1	4	4	4	33.8	33.5	6	4	7	22.1	22.0	-2	4	10	42.4	43.0
4	4	3	22.7	21.8	5	4	4	23.3	23.2	7	4	7	14.4	12.6	-1	4	10	12.8	12.2
5	4	3	37.0	37.2	6	4	4	0.9	1.4	8	4	7	5.2	4.6	0	4	10	12.6	11.9
6	4	3	9.0	8.4	7	4	4	31.6	32.3	-11	4	8	8.4	10.8	1	4	10	4.6	5.7
7	4	3	14.0	13.8	8	4	4	4.6	6.0	-10	4	8	112.1	112.4	2	4	10	173.2	174.3
8	4	3	22.0	22.4	9	4	4	4.4	1.3	-9	4	8	24.9	25.0	3	4	10	3.8	4.1
9	4	3	5.4	4.8	10	4	4	4.0	4.8	-8	4	8	38.6	39.4	4	4	10	9.3	11.4
10	4	3	8.3	5.0	-13	4	6	11.1	12.2	-7	4	8	19.4	20.3	-10	4	11	15.2	15.7

-9	4	11	15.9	17.6	-3	5	1	11.7	13.5	-4	5	3	15.1	13.8	-3	5	5	22.0	22.4
-8	4	11	4.9	1.8	-2	5	1	53.1	54.1	-3	5	3	41.8	43.0	-2	5	5	75.0	75.1
-7	4	11	11.7	13.0	-1	5	1	16.8	16.3	-2	5	3	88.5	89.3	-1	5	5	12.3	11.8
-6	4	11	14.7	13.6	0	5	1	40.3	40.2	-1	5	3	17.7	18.4	0	5	5	23.3	23.4
-5	4	11	55.5	54.5	1	5	1	12.2	12.4	0	5	3	7.0	7.6	1	5	5	26.0	26.3
-4	4	11	4.4	1.6	2	5	1	5.4	4.6	1	5	3	40.8	42.2	2	5	5	6.6	4.8
-3	4	11	20.4	19.4	3	5	1	48.6	50.0	2	5	3	14.1	15.1	3	5	5	11.3	11.2
-2	4	11	9.0	8.3	4	5	1	19.4	20.5	3	5	3	12.9	12.0	4	5	5	29.4	29.9
-1	4	11	8.9	8.9	5	5	1	15.6	16.4	4	5	3	1.3	1.1	5	5	5	19.2	19.4
0	4	11	25.6	26.0	6	5	1	78.1	80.2	5	5	3	2.5	1.7	6	5	5	17.2	16.9
1	4	11	25.8	26.4	7	5	1	37.7	38.6	6	5	3	70.5	72.0	7	5	5	29.2	28.2
2	4	11	4.2	1.7	8	5	1	1.4	5.9	7	5	3	3.0	1.7	8	5	5	16.0	14.3
3	4	11	24.5	22.7	9	5	1	0.9	5.0	8	5	3	3.3	3.9	9	5	5	9.5	7.3
-9	4	12	12.4	12.6	10	5	1	37.4	36.3	9	5	3	8.2	9.4	-13	5	5	9.5	8.6
-8	4	12	8.2	10.0	11	5	1	26.0	26.5	10	5	3	57.2	56.5	-12	5	5	24.4	22.9
-7	4	12	15.7	14.4	12	5	1	15.4	18.9	11	5	3	18.8	15.3	-11	5	5	11.8	11.5
-6	4	12	104.0	102.0	-13	5	2	13.8	12.1	-13	5	4	43.3	41.7	-10	5	5	10.7	9.3
-5	4	12	19.6	18.3	-12	5	2	47.9	47.9	-12	5	4	15.0	16.0	-9	5	5	8.7	7.5
-4	4	12	19.2	18.0	-11	5	2	24.2	26.0	-11	5	4	29.6	30.7	-8	5	5	53.1	55.1
-3	4	12	6.6	7.3	-10	5	2	25.3	26.4	-10	5	4	32.0	32.8	-7	5	5	24.6	24.1
-2	4	12	58.9	59.1	-9	5	2	4.6	3.3	-9	5	4	32.0	32.8	-6	5	5	18.0	18.7
-1	4	12	3.7	9.4	-8	5	2	36.3	38.0	-8	5	4	32.6	32.8	-5	5	5	8.3	7.2
0	4	12	21.4	19.9	-7	5	2	20.2	21.4	-7	5	4	14.9	13.8	-4	5	5	61.1	62.5
1	4	12	1.1	2.9	-6	5	2	7.6	8.6	-6	5	4	15.0	14.8	-3	5	5	6.3	7.7
-6	4	13	4.2	2.8	-5	5	2	58.2	59.2	-5	5	4	13.0	13.5	-2	5	5	17.3	19.4
-5	4	13	37.7	37.8	-4	5	2	50.3	52.4	-4	5	4	80.8	83.4	-1	5	5	24.0	23.7
-4	4	13	5.5	4.9	-3	5	2	10.7	10.4	-3	5	4	34.1	34.2	0	5	5	43.3	45.3
-3	4	13	36.4	36.5	-2	5	2	3.9	5.3	-2	5	4	26.2	25.1	1	5	5	1.3	0.7
0	4	13	82.5	84.2	-1	5	2	12.4	11.2	-1	5	4	13.5	13.1	2	5	5	14.4	14.9
1	4	13	30.7	31.0	0	5	2	78.7	79.5	0	5	4	69.9	71.7	3	5	5	28.2	29.0
2	4	13	39.0	38.7	1	5	2	6.1	6.8	1	5	4	27.8	28.9	4	5	5	59.9	61.3
3	4	13	18.5	18.8	2	5	2	22.4	23.0	2	5	4	40.5	41.7	5	5	5	13.5	11.6
4	4	13	44.2	44.8	3	5	2	27.5	27.3	3	5	4	3.3	1.5	6	5	5	13.8	14.0
5	4	13	2.4	1.0	4	5	2	34.4	34.9	4	5	4	70.7	72.1	7	5	5	17.8	16.9
6	4	13	6.9	7.8	5	5	2	29.1	29.7	5	5	4	27.3	27.1	8	5	5	6.0	4.1
7	4	13	36.2	36.7	6	5	2	27.9	27.8	6	5	4	7.7	8.2	9	5	5	34.5	31.7
8	4	13	53.1	53.9	7	5	2	15.3	16.8	7	5	4	32.1	32.0	-12	5	5	20.9	20.2
9	4	13	28.8	28.8	8	5	2	31.8	29.9	8	5	4	3.1	4.9	-11	5	5	12.4	11.7
10	4	13	21.7	21.8	9	5	2	38.8	39.5	9	5	4	3.8	7.4	-10	5	5	38.0	38.5
11	4	13	12.6	12.4	10	5	2	13.3	13.1	10	5	4	6.4	4.4	-9	5	5	6.9	7.7
12	4	13	22.8	23.3	11	5	2	25.3	25.4	11	5	4	9.3	8.7	-8	5	5	16.0	15.5
-12	4	13	13.1	14.4	-13	5	3	3.3	4.3	-13	5	5	32.1	33.0	-7	5	5	3.5	1.3
-11	4	13	21.2	19.4	-12	5	3	13.7	11.9	-12	5	5	3.6	5.9	-6	5	5	31.3	31.8
-10	4	13	35.6	35.6	-11	5	3	2.6	4.8	-10	5	5	39.7	40.1	-5	5	5	34.4	35.2
-9	4	13	31.1	30.0	-10	5	3	16.4	16.8	-9	5	5	20.1	38.5	-4	5	5	7.9	10.2
-8	4	13	12.1	12.2	-9	5	3	38.2	38.9	-8	5	5	37.1	38.5	-3	5	5	5.3	5.3
-7	4	13	20.6	20.8	-8	5	3	30.0	28.9	-7	5	5	23.0	22.8	-2	5	5	14.6	15.4
-6	4	13	29.6	30.8	-7	5	3	24.6	23.9	-6	5	5	77.6	79.6	-1	5	5	13.6	15.3
-5	4	13	8.7	8.6	-6	5	3	45.4	46.1	-5	5	5	45.6	47.4	0	5	5	17.9	18.1
-4	4	13	16.6	16.2	-5	5	3	19.4	19.6	-4	5	5	14.9	15.9	1	5	5	27.1	27.9

2	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
3				17.4	17.4	-6	5	10	3.9	2.4	-8	6	1	58.9	59.6	-6	6	3	58.2	59.1	-6	6	3	58.2	59.1
4				16.9	17.9	-5	5	10	1.0	3.9	-7	6	1	18.4	18.0	-5	6	3	24.5	25.2	-5	6	3	24.5	25.2
5				6.9	2.8	-4	5	10	22.0	21.5	-6	6	1	1.5	1.3	-4	6	3	80.7	81.3	-4	6	3	80.7	81.3
6				25.6	23.4	-3	5	10	1.0	2.2	-5	6	1	14.9	14.0	-3	6	3	75.2	77.5	-3	6	3	75.2	77.5
7				2.8	1.8	-2	5	10	12.8	13.1	-4	6	1	32.8	35.2	-2	6	3	40.8	42.8	-2	6	3	40.8	42.8
8				15.7	15.1	-1	5	10	1.4	3.0	-3	6	1	26.2	27.2	-1	6	3	38.5	40.1	-1	6	3	38.5	40.1
7				5.8	3.6	0	5	10	45.1	43.5	-2	6	1	73.7	75.5	0	6	3	63.5	65.5	0	6	3	63.5	65.5
8				11.3	7.3	1	5	10	12.5	13.4	-1	6	1	28.9	28.9	1	6	3	63.2	65.1	1	6	3	63.2	65.1
-11				3.3	6.0	2	5	10	5.3	3.3	0	6	1	39.2	37.1	2	6	3	63.5	65.5	2	6	3	63.5	65.5
-10				10.5	9.8	3	5	10	1.6	4.5	1	6	1	0.6	0.7	3	6	3	2.3	4.2	3	6	3	2.3	4.2
-9				25.8	25.5	4	5	10	22.9	23.4	2	6	1	88.7	90.6	4	6	3	2.0	1.4	4	6	3	2.0	1.4
-8				68.0	67.2	-10	5	10	48.1	48.7	2	6	1	3.3	1.1	4	6	3	5.5	1.0	4	6	3	5.5	1.0
-7				11.3	11.4	-9	5	10	11.7	11.9	3	6	1	67.3	68.6	5	6	3	28.7	29.6	5	6	3	28.7	29.6
-6				31.3	32.7	-8	5	10	10.3	9.3	4	6	1	14.0	14.4	6	6	3	71.8	72.9	6	6	3	71.8	72.9
-5				12.2	12.6	-7	5	10	14.1	13.7	5	6	1	22.5	23.8	7	6	3	2.1	1.5	7	6	3	2.1	1.5
-4				16.0	16.2	-6	5	10	17.5	18.2	6	6	1	58.3	59.1	8	6	3	9.5	8.1	8	6	3	9.5	8.1
-3				7.1	7.4	-5	5	10	9.3	9.4	7	6	1	24.8	25.8	9	6	3	6.7	5.8	9	6	3	6.7	5.8
-2				5.6	0.9	-4	5	10	4.2	4.8	8	6	1	25.5	26.2	10	6	3	24.3	22.5	10	6	3	24.3	22.5
-1				5.0	6.9	-3	5	10	5.4	2.8	9	6	1	41.9	40.7	11	6	3	16.7	18.0	11	6	3	16.7	18.0
0				39.1	39.6	-2	5	10	55.8	55.1	10	6	1	16.8	18.3	12	6	3	4.3	4.5	12	6	3	4.3	4.5
1				0.9	0.5	-1	5	10	18.2	18.4	11	6	1	3.6	1.1	13	6	3	4.2	0.6	13	6	3	4.2	0.6
2				35.7	37.5	0	5	10	6.8	7.8	12	6	1	13.4	14.5	14	6	3	10.9	11.3	14	6	3	10.9	11.3
3				46.2	46.2	1	5	10	6.1	7.5	13	6	1	6.3	8.4	15	6	3	13.8	13.3	15	6	3	13.8	13.3
4				29.7	29.7	2	5	10	35.6	34.3	14	6	1	2.1	0.7	16	6	3	32.9	33.6	16	6	3	32.9	33.6
5				30.5	30.5	3	5	10	22.6	21.8	15	6	1	9.0	8.0	17	6	3	7.8	7.6	17	6	3	7.8	7.6
6				18.0	16.2	4	5	10	18.6	6.5	16	6	1	13.5	13.3	18	6	3	28.6	28.9	18	6	3	28.6	28.9
7				20.6	20.7	5	5	10	20.3	20.1	17	6	1	35.6	37.4	19	6	3	4.3	1.5	19	6	3	4.3	1.5
-11				5.9	3.8	6	5	10	62.8	60.1	18	6	1	26.0	26.6	20	6	3	59.2	53.6	20	6	3	59.2	53.6
-10				14.4	14.5	7	5	10	7.3	8.1	19	6	1	7.0	8.0	21	6	3	4.4	4.4	21	6	3	4.4	4.4
-9				16.3	15.1	8	5	10	14.1	15.5	20	6	1	38.4	37.9	22	6	3	17.1	17.6	22	6	3	17.1	17.6
-8				6.5	5.4	9	5	10	6.4	4.1	21	6	1	5.4	6.4	23	6	3	5.1	5.1	23	6	3	5.1	5.1
-7				15.3	15.9	10	5	10	5.1	0.3	22	6	1	16.6	17.0	24	6	3	18.5	17.5	24	6	3	18.5	17.5
-6				24.2	25.4	11	5	10	4.6	3.1	23	6	1	11.4	11.0	25	6	3	14.2	14.4	25	6	3	14.2	14.4
-5				36.1	35.4	12	5	10	17.6	17.6	24	6	1	8.7	6.3	26	6	3	5.7	8.9	26	6	3	5.7	8.9
-4				16.2	17.6	13	5	10	37.1	36.4	25	6	1	0.7	3.3	27	6	3	12.5	10.9	27	6	3	12.5	10.9
-3				21.6	21.3	14	5	10	3.5	0.4	26	6	1	2.4	5.5	28	6	3	35.3	35.8	28	6	3	35.3	35.8
-2				56.6	56.1	15	5	10	11.4	9.8	27	6	1	48.3	49.7	29	6	3	17.5	16.4	29	6	3	17.5	16.4
-1				13.9	14.8	16	5	10	10.9	9.9	28	6	1	0.9	2.4	30	6	3	1.1	0.8	30	6	3	1.1	0.8
0				13.9	14.5	17	5	10	18.7	19.1	29	6	1	38.7	38.4	31	6	3	12.1	9.8	31	6	3	12.1	9.8
1				71.1	71.3	18	5	10	7.3	8.1	30	6	1	10.8	10.6	32	6	3	3.7	5.5	32	6	3	3.7	5.5
2				15.7	15.8	19	5	10	15.9	15.0	31	6	1	53.1	52.4	33	6	3	3.3	0.9	33	6	3	3.3	0.9
3				3.3	2.4	20	5	10	32.0	31.7	32	6	1	6.9	3.5	34	6	3	10.9	11.0	34	6	3	10.9	11.0
4				19.2	19.1	11	5	10	11.3	10.4	33	6	1	27.3	28.8	35	6	3	55.4	55.3	35	6	3	55.4	55.3
5				3.3	2.4	12	5	10	30.8	29.8	34	6	1	16.3	16.9	36	6	3	71.2	72.3	36	6	3	71.2	72.3
-11				1.4	2.4	13	5	10	14.8	14.8	35	6	1	27.4	28.3	37	6	3	16.3	17.8	37	6	3	16.3	17.8
-10				6.4	8.5	14	5	10	48.7	47.9	36	6	1	53.2	53.7	38	6	3	29.3	30.7	38	6	3	29.3	30.7
-9				2.7	1.5	15	5	10	3.6	6.7	37	6	1	27.1	25.9	39	6	3	49.8	51.3	39	6	3	49.8	51.3
-8				34.2	34.2	16	5	10	12.9	13.2	38	6	1	27.1	25.9	40	6	3	2.6	3.3	40	6	3	2.6	3.3

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
-2	6	5	41.6	41.5	5	6	7	20.4	19.1	1	6	10	11.9	11.6	4	7	1	157.3	159.9					
-1	6	5	15.2	15.0	6	6	7	11.0	5.5	2	6	10	36.8	35.3	5	7	1	7.0	9.0					
0	6	5	31.2	33.6	7	6	7	3.0	1.4	3	6	10	5.9	2.5	6	7	1	7.7	1.1					
1	6	5	32.1	32.6	-12	6	8	5.3	6.9	-9	6	11	9.3	5.5	7	7	1	44.7	44.7					
2	6	5	31.1	32.0	-11	6	8	18.6	18.7	-8	6	11	34.5	32.3	8	7	1	92.9	93.4					
3	6	5	4.5	4.6	-10	6	8	9.8	10.2	-7	6	11	44.3	43.6	9	7	1	15.5	15.1					
4	6	5	45.9	47.4	-9	6	8	10.9	8.8	-6	6	11	1.3	1.2	10	7	1	9.3	10.7					
5	6	5	8.7	7.6	-8	6	8	20.0	19.8	-5	6	11	18.6	17.7	11	7	1	6.7	9.2					
6	6	5	22.9	23.0	-7	6	8	10.2	8.5	-4	6	11	7.4	7.5	-12	7	2	1.1	2.3					
7	6	5	54.2	52.7	-6	6	8	8.2	7.7	-3	6	11	7.9	2.1	-11	7	2	27.4	28.6					
8	6	5	35.4	33.7	-5	6	8	4.7	2.8	-2	6	11	35.1	32.5	-10	7	2	8.4	6.1					
9	6	5	4.4	3.7	-4	6	8	17.1	17.7	-1	6	11	32.1	31.5	-9	7	2	6.6	9.6					
-10	6	6	36.8	37.4	-3	6	8	14.2	15.7	0	6	11	4.1	1.2	-8	7	2	11.7	10.7					
-11	6	6	7.6	7.4	-2	6	8	13.3	13.6	1	6	11	13.1	12.7	-7	7	2	14.3	14.3					
-12	6	6	20.8	21.5	-1	6	8	7.4	7.5	2	6	11	28.7	27.1	-6	7	2	52.1	55.3					
-9	6	6	14.5	15.6	0	6	8	31.8	32.7	-7	6	12	22.1	21.2	-5	7	2	16.3	15.2					
-8	6	6	5.2	3.4	1	6	8	12.1	9.2	-6	6	12	1.1	3.3	-4	7	2	17.5	17.4					
-7	6	6	0.9	4.1	2	6	8	55.6	55.7	-5	6	12	8.3	6.8	-3	7	2	3.5	7.0					
-6	6	6	0.8	1.5	3	6	8	1.0	1.9	-4	6	12	11.7	10.7	-2	7	2	71.5	71.8					
-5	6	6	11.0	11.8	4	6	8	18.3	18.6	-3	6	12	2.6	0.5	-1	7	2	10.6	8.4					
-4	6	6	34.8	34.8	5	6	8	16.8	15.4	-2	6	12	5.3	4.7	0	7	2	23.6	24.0					
-3	6	6	20.4	21.0	6	6	8	7.1	6.8	-1	6	12	4.1	4.2	1	7	2	43.9	44.4					
-2	6	6	26.1	26.9	-11	6	9	4.1	4.4	0	7	7	0	51.4	1	7	2	43.1	42.6					
-1	6	6	4.0	5.9	-10	6	9	15.6	16.5	1	7	7	11.2	11.8	2	7	2	27.4	27.6					
0	6	6	21.9	22.2	-9	6	9	4.8	4.7	2	7	7	1.8	1.5	3	7	2	11.6	12.9					
1	6	6	15.9	16.1	-8	6	9	17.6	16.2	3	7	7	57.3	58.9	4	7	2	7.0	8.2					
2	6	6	20.2	21.1	-7	6	9	12.0	11.6	4	7	7	7.9	7.5	5	7	2	20.3	22.5					
3	6	6	19.3	19.5	-6	6	9	22.5	21.1	5	7	7	101.2	104.0	6	7	2	9.8	9.3					
4	6	6	8.2	9.3	-5	6	9	71.5	71.8	6	7	7	34.0	33.6	7	7	2	11.3	4.1					
5	6	6	18.0	17.1	-4	6	9	52.9	53.6	7	7	7	25.6	26.9	8	7	2	3.8	4.0					
6	6	6	15.7	14.8	-3	6	9	22.6	23.7	8	7	7	3.1	6.1	9	7	2	19.9	18.9					
7	6	6	3.9	6.6	-2	6	9	28.1	27.9	9	7	7	3.1	6.1	10	7	2	8.8	7.3					
8	6	6	17.4	16.3	-1	6	9	20.5	20.8	10	7	7	1.0	2.4	11	7	2	84.4	84.8					
-11	6	7	27.3	25.2	0	6	9	10.7	11.7	11	7	7	3.7	5.1	-12	7	3	13.9	17.2					
-12	6	7	49.1	48.3	1	6	9	20.5	20.8	-11	7	7	56.2	55.8	-11	7	3	38.7	38.9					
-9	6	7	6.2	6.4	2	6	9	25.2	24.4	-10	7	7	23.5	22.4	-10	7	3	43.7	45.2					
-8	6	7	11.0	11.6	3	6	9	3.6	4.1	-9	7	7	20.4	19.3	-9	7	3	4.6	3.7					
-7	6	7	23.3	24.8	4	6	9	14.7	12.6	-8	7	7	2.4	3.9	-8	7	3	18.9	18.4					
-6	6	7	9.6	9.7	5	6	9	15.5	15.0	-7	7	7	141.7	143.3	-7	7	3	16.3	16.4					
-5	6	7	36.5	37.7	-10	6	10	10.3	8.6	-8	7	7	20.5	21.3	-6	7	3	16.3	16.4					
-4	6	7	62.9	63.7	-9	6	10	14.5	13.9	-7	7	7	11.4	10.9	-5	7	3	28.9	28.8					
-3	6	7	35.0	36.6	-8	6	10	20.7	19.1	-6	7	7	26.7	27.0	-4	7	3	165.9	166.3					
-2	6	7	23.7	23.8	-7	6	10	3.5	8.3	-5	7	7	43.5	43.7	-3	7	3	59.8	61.1					
-1	6	7	7.2	7.4	-6	6	10	9.9	10.9	-4	7	7	33.5	34.2	-2	7	3	15.3	16.5					
0	6	7	6.7	5.8	-5	6	10	7.9	9.7	-3	7	7	9.8	10.2	-1	7	3	10.8	12.4					
1	6	7	82.6	84.9	-4	6	10	1.7	1.0	-2	7	7	15.5	15.2	0	7	3	189.9	194.9					
2	6	7	45.9	47.5	-3	6	10	8.4	9.1	1	7	7	160.3	161.3	1	7	3	57.1	59.5					
3	6	7	17.6	18.1	-2	6	10	25.6	26.2	0	7	7	11.9	13.1	2	7	3	16.1	16.7					
4	6	7	37.2	36.8	-1	6	10	8.9	9.5	1	7	7	38.0	40.7	3	7	3	8.6	8.6					
5	6	7	31.6	31.2	0	6	10	31.7	31.9	2	7	7	56.7	58.5	4	7	3	54.9	53.2					
6	6	7			3	6	10			3	7	7			5	7	3	9.5	10.4					

6	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
7	7	7	3	5.7	3.9	-11	7	6	38.2	38.4	-1	7	8	8.5	12.2	-4	7	12	2.6	0.3					
7	7	3	22.2	22.7	-10	7	6	8.2	7.0	0	7	8	21.0	20.2	-3	7	12	17.6	15.9						
8	7	3	57.5	56.9	-9	7	6	2.3	0.6	1	7	8	30.5	29.5	-2	7	12	10.5	9.9						
9	7	3	15.0	14.1	-8	7	6	16.7	14.6	2	7	8	24.1	23.1	0	8	0	384.2	394.7						
10	7	3	10.6	10.1	-7	7	6	36.7	36.5	3	7	8	16.1	14.1	1	8	0	10.2	8.6						
-11	7	4	8.8	10.6	-6	7	6	23.2	25.0	4	7	8	8.5	10.6	2	8	0	24.5	25.2						
-12	7	4	2.5	1.5	-5	7	6	37.8	37.9	5	7	8	4.1	6.4	3	8	0	25.7	25.8						
-10	7	4	25.1	26.6	-4	7	6	7.7	9.8	6	7	8	22.2	23.4	4	8	0	44.4	46.3						
-9	7	4	19.2	19.7	-3	7	6	22.5	23.7	-11	7	9	8.3	7.1	5	8	0	4.5	5.7						
-8	7	4	7.6	5.6	-2	7	6	52.6	55.1	-10	7	9	19.5	18.4	6	8	0	8.9	7.5						
-7	7	4	37.5	37.0	-1	7	6	22.0	21.5	-9	7	9	10.3	10.7	6	8	0	36.5	36.5						
-6	7	4	37.6	36.9	0	7	6	36.0	36.5	-8	7	9	63.4	64.0	7	8	0	77.9	78.0						
-5	7	4	13.9	13.0	1	7	6	21.8	22.3	-7	7	9	27.0	26.9	8	8	0	8.3	10.4						
-4	7	4	39.7	39.8	2	7	6	32.1	33.5	-6	7	9	1.0	2.7	9	8	0	35.4	35.0						
-3	7	4	49.1	49.4	3	7	6	3.2	1.8	-5	7	9	1.0	2.7	10	8	0	17.5	16.8						
-2	7	4	77.6	80.2	4	7	6	12.7	13.3	-4	7	9	89.2	88.8	-11	8	1	2.8	4.0						
-1	7	4	5.4	2.6	5	7	6	23.0	23.8	-3	7	9	37.7	39.1	-10	8	1	23.6	22.2						
0	7	4	42.6	43.6	6	7	6	37.0	36.6	-2	7	9	9.7	8.9	-9	8	1	27.8	26.9						
1	7	4	8.1	6.6	7	7	6	1.1	0.8	-1	7	9	9.4	7.3	-8	8	1	7.3	9.2						
2	7	4	40.6	39.2	8	7	6	6.8	3.5	0	7	9	91.1	91.2	-7	8	1	7.9	3.7						
3	7	4	26.1	26.2	-12	7	7	72.3	71.6	1	7	9	11.7	12.5	-6	8	1	19.8	20.9						
4	7	4	37.6	37.3	-11	7	7	39.1	39.3	2	7	9	3.1	0.5	-5	8	1	9.3	10.4						
5	7	4	14.5	13.8	-10	7	7	8.1	8.7	3	7	9	15.2	13.5	-4	8	1	14.3	13.7						
6	7	4	22.4	22.6	-9	7	7	39.3	39.6	-10	7	9	12.4	9.7	-3	8	1	10.5	10.7						
7	7	4	12.0	12.3	-8	7	7	58.4	59.7	-9	7	10	9.9	11.3	-2	8	1	70.3	71.5						
8	7	4	37.2	36.4	-7	7	7	20.4	20.5	-8	7	10	34.3	34.1	-1	8	1	20.7	20.3						
9	7	4	6.1	4.8	-6	7	7	29.8	29.7	-7	7	10	21.7	21.0	0	8	1	20.7	20.3						
-12	7	5	24.2	24.6	-5	7	7	55.4	56.4	-8	7	10	53.6	54.3	1	8	1	21.5	21.1						
-11	7	5	20.1	20.3	-4	7	7	39.9	39.3	-6	7	10	7.7	5.6	2	8	1	5.8	5.9						
-10	7	5	8.7	11.6	-3	7	7	23.7	23.3	-5	7	10	3.7	1.1	3	8	1	22.8	22.8						
-9	7	5	1.0	1.1	-2	7	7	0.9	1.2	-4	7	10	9.0	8.9	4	8	1	8.9	8.3						
-8	7	5	107.0	107.2	-1	7	7	20.9	20.9	-3	7	10	19.6	20.7	5	8	1	35.4	36.0						
-7	7	5	44.9	46.0	0	7	7	134.2	135.3	-2	7	10	7.7	8.3	6	8	1	29.7	30.8						
-6	7	5	16.8	17.5	1	7	7	40.2	41.0	-1	7	10	38.4	38.8	7	8	1	31.0	31.0						
-5	7	5	6.7	6.3	2	7	7	23.3	23.9	0	7	10	13.5	13.0	8	8	1	3.2	4.2						
-4	7	5	163.8	168.9	3	7	7	4.0	6.9	1	7	10	24.0	24.0	9	8	1	9.4	10.7						
-3	7	5	20.4	22.0	4	7	7	93.1	93.3	2	7	10	19.3	17.7	10	8	1	3.8	6.2						
-2	7	5	2.5	3.7	5	7	7	30.9	29.1	3	7	10	7.2	9.1	11	8	1	20.5	20.7						
-1	7	5	29.4	30.2	6	7	7	1.5	1.9	-8	7	11	78.7	79.0	-11	8	2	20.1	20.1						
0	7	5	5.3	7.2	7	7	7	1.1	1.5	-7	7	11	43.9	42.5	-10	8	2	1.0	4.8						
1	7	5	29.2	29.7	-11	7	8	31.8	30.5	-6	7	11	8.3	4.8	-9	8	2	13.2	14.6						
2	7	5	20.4	21.5	-10	7	8	37.5	36.6	-5	7	11	34.5	33.8	-8	8	2	96.1	96.4						
3	7	5	1.9	4.0	-9	7	8	29.3	29.2	-4	7	11	6.7	7.9	-7	8	2	35.9	35.9						
4	7	5	154.1	153.2	-8	7	8	5.7	5.5	-3	7	11	14.1	14.3	-6	8	2	16.7	18.3						
5	7	5	7.9	9.8	-7	7	8	8.8	9.2	-2	7	11	15.7	15.1	-5	8	2	28.0	29.7						
6	7	5	26.9	25.9	-6	7	8	4.7	7.7	-1	7	11	38.7	36.2	-4	8	2	149.5	154.3						
7	7	5	32.0	31.2	-5	7	8	22.4	22.3	0	7	11	49.7	48.8	-3	8	2	18.1	17.7						
8	7	5	62.2	61.4	-4	7	8	32.1	32.4	1	7	11	11.9	11.3	-2	8	2	13.3	15.3						
9	7	5	5.0	3.6	-3	7	8	50.2	49.5	-6	7	12	15.0	13.8	-1	8	2	14.4	13.9						
-12	7	6	19.3	20.2	-2	7	8	68.3	66.1	-5	7	12	36.6	36.0	0	8	2	10.7	10.3						

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
1	8	2	15.1	16.4	5	8	4	11.2	10.9	-6	8	7	34.3	34.3	-4	8	10	10.9	11.9					
2	8	2	4.2	5.0	6	8	4	19.2	20.6	-5	8	7	11.8	13.0	-3	8	10	18.5	18.0					
3	8	2	21.5	22.6	7	8	4	23.6	23.2	-4	8	7	6.0	8.3	-2	8	10	3.6	4.1					
4	8	2	31.6	30.8	8	8	4	24.2	22.9	-3	8	7	34.3	34.0	-1	8	10	16.0	15.3					
5	8	2	2.1	2.7	9	8	4	3.1	6.8	-2	8	7	20.1	21.0	0	8	10	R5.8	32.7					
6	8	2	10.1	10.3	-12	8	5	10.7	9.9	-1	8	7	25.5	26.4	1	8	10	6.7	9.3					
7	8	2	16.0	15.3	-11	8	5	39.3	38.2	0	8	7	5.4	4.5	2	8	10	4.6	5.1					
8	8	2	107.5	106.6	-10	8	5	1.0	1.7	1	8	7	44.7	44.5	-7	8	11	25.3	24.2					
9	8	2	22.9	23.1	-9	8	5	28.4	27.2	2	8	7	2.9	5.8	-6	8	11	2.1	4.1					
10	8	2	2.6	0.5	-8	8	5	23.6	23.4	3	8	7	8.5	7.0	-5	8	11	19.7	19.6					
-11	8	3	14.6	16.7	-7	8	5	4.5	2.7	4	8	7	3.8	4.0	-4	8	11	5.1	4.4					
-10	8	3	4.1	2.0	-6	8	5	5.2	4.5	5	8	7	49.4	48.2	-3	8	11	34.5	35.4					
-9	8	3	20.7	21.6	-5	8	5	18.2	19.3	6	8	7	40.7	40.4	-2	8	11	15.9	16.2					
-8	8	3	1.0	2.8	-4	8	5	1.8	5.2	-11	8	8	21.8	23.0	-1	8	11	21.5	20.7					
-7	8	3	0.9	0.2	-3	8	5	27.0	28.1	-10	8	8	19.2	19.4	0	8	11	13.2	14.1					
-6	8	3	38.8	38.6	-2	8	5	13.5	13.3	-9	8	8	29.2	29.2	0	8	11	22.9	21.5					
-5	8	3	9.1	8.4	-1	8	5	6.1	8.5	-8	8	8	194.6	192.4	1	8	11	24.2	24.6					
-4	8	3	8.9	7.9	0	8	5	23.0	24.1	-7	8	8	21.2	22.1	2	8	11	84.9	85.6					
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1	8	3	3.0	3.9	5	8	5	9.0	7.7	-2	8	8	13.6	12.4	7	8	11	12.3	13.0					
2	8	3	52.8	53.8	6	8	5	12.1	11.8	-1	8	8	5.6	4.1	8	8	11	23.1	21.0					
3	8	3	38.0	38.0	7	8	5	5.5	2.5	0	8	8	66.1	65.8	9	8	11	4.0	7.7					
4	8	3	11.8	11.4	8	8	5	5.5	8.1	1	8	8	19.8	19.0	10	8	11	9.3	7.2					
5	8	3	16.3	17.0	-11	8	6	28.8	30.2	2	8	8	21.4	21.9	-10	8	11	4.4	4.0					
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7	8	3	17.6	17.8	-9	8	6	9.5	12.5	4	8	8	34.2	34.0	-8	8	11	27.9	27.1					
8	8	3	27.2	26.4	-8	8	6	7.9	5.0	5	8	8	7.6	7.3	-7	8	11	1.5	1.5					
9	8	3	7.3	2.1	-7	8	6	29.4	30.1	-10	8	9	12.6	12.5	-6	8	11	22.1	22.7					
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-11	8	3	13.7	15.0	-5	8	6	21.1	20.8	-8	8	9	16.2	16.3	-4	8	11	16.9	17.2					
-12	8	4	143.0	140.2	-4	8	6	131.4	131.1	-7	8	9	36.7	36.2	-4	8	11	2.0	5.3					
-9	8	4	25.8	24.0	-3	8	6	25.6	25.6	-6	8	9	20.1	19.7	-3	8	11	38.1	39.6					
-8	8	4	2.9	5.1	-2	8	6	18.9	19.4	-5	8	9	8.9	7.3	-2	8	11	47.7	49.7					
-7	8	4	13.8	14.4	-1	8	6	11.1	9.8	-4	8	9	7.9	8.0	-1	8	11	7.2	6.4					
-6	8	4	8.0	8.7	0	8	6	97.3	99.4	-3	8	9	16.7	15.1	0	8	11	37.2	36.6					
-5	8	4	27.8	28.3	1	8	6	8.4	7.1	-2	8	9	26.5	26.4	1	8	11	3.1	2.9					
-4	8	4	39.2	39.4	2	8	6	11.8	8.9	-1	8	9	11.0	11.5	2	8	11	20.4	20.5					
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-2	8	4	113.0	114.2	4	8	6	24.3	23.8	1	8	9	34.9	33.9	4	8	11	24.7	25.5					
-1	8	4	39.1	39.2	5	8	6	3.6	4.7	2	8	9	11.8	12.9	5	8	11	24.7	21.9					
0	8	4	22.5	22.8	6	8	6	4.9	1.5	3	8	9	1.1	3.5	6	8	11	22.9	21.9					
1	8	4	2.3	2.2	7	8	6	18.3	18.1	4	8	9	14.5	13.8	7	8	11	14.6	12.9					
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3	8	4	5.2	6.8	-10	8	7	29.2	28.1	-8	8	10	14.5	13.2	9	8	11	17.2	16.5					
4	8	4	12.4	10.8	-9	8	7	31.5	30.7	-7	8	10	32.3	33.5	10	8	11	18.9	18.4					
5	8	4	2.9	7.5	-8	8	7	8.0	9.2	-6	8	10	16.1	15.3	-11	8	11	9.8	9.9					
6	8	4	236.0	236.2	-7	8	7	30.1	30.7	-5	8	10	10.7	10.7	-10	8	11	14.1	14.7					

H	K	L	FD	FC	H	K	L	FD	FC	H	K	L	FD	FC	H	K	L	FD	FC	H	K	L	FD	FC
-9	9	2	3.7	4.6	-2	9	4	16.2	17.8	-10	9	7	4.3	0.5	-3	9	10	10.0	8.0					
-8	9	2	1.0	0.1	-1	9	4	10.3	7.8	-9	9	7	10.3	8.7	-2	9	10	59.5	57.9					
-7	9	2	24.9	24.9	0	9	4	9.8	9.3	-8	9	7	8.0	4.5	-1	9	10	21.8	20.4					
-6	9	2	83.2	83.8	1	9	4	3.1	3.1	-7	9	7	16.8	16.8	0	9	10	29.3	29.0					
-5	9	2	5.4	4.1	2	9	4	92.3	30.6	-6	9	7	37.7	38.5	1	9	10	7.4	8.0					
-4	9	2	33.3	35.0	3	9	4	5.0	5.5	-5	9	7	12.9	4.5	-5	9	11	2.0	2.8					
-3	9	2	12.9	14.1	4	9	4	2.3	2.0	-4	9	7	3.8	12.8	-4	9	11	39.6	39.0					
-2	9	2	87.5	90.0	5	9	4	2.3	2.0	-3	9	7	3.8	1.4	-3	9	11	2.0	5.7					
-1	9	2	5.6	3.9	6	9	4	38.5	38.9	-2	9	7	18.2	17.9	-2	9	11	21.9	21.4					
0	9	2	8.5	7.1	7	9	4	1.6	0.2	0	9	7	17.2	16.8	0	9	10	25.1	26.3					
1	9	2	5.9	5.9	8	9	4	18.2	16.2	0	9	7	6.9	1.5	1	10	11	13.7	12.9					
2	9	2	12.8	44.8	-11	9	5	4.2	1.8	1	9	7	21.1	20.7	2	10	0	31.1	31.3					
3	9	2	12.5	13.8	-10	9	5	14.0	14.3	2	9	7	15.6	16.2	3	10	0	1.6	3.2					
4	9	2	24.9	24.9	-9	9	5	28.4	27.9	3	9	7	12.9	12.5	4	10	0	28.6	29.0					
5	9	2	3.3	4.6	-8	9	5	55.5	54.4	4	9	7	29.6	28.7	5	10	0	5.9	8.5					
6	9	2	71.4	71.3	-7	9	5	3.3	5.3	5	9	7	32.7	32.1	6	10	0	8.5	7.5					
7	9	2	25.1	25.1	-6	9	5	11.0	14.4	6	9	7	2.7	1.6	7	10	0	2.8	2.0					
8	9	2	25.6	25.2	-5	9	5	31.2	30.5	-10	9	8	36.2	35.2	8	10	0	12.1	12.8					
9	9	2	7.6	8.0	-4	9	5	1.7	1.1	-9	9	8	5.5	4.2	9	10	0	10.1	11.1					
10	9	2	48.3	46.3	-3	9	5	8.0	7.1	-8	9	8	8.6	9.4	10	10	0	35.3	34.7					
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-9	9	3	11.1	12.3	0	9	5	42.7	43.8	-5	9	8	3.5	5.0	-8	10	1	52.6	51.2					
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-2	9	3	27.8	29.1	7	9	5	6.0	5.4	2	9	8	6.6	10.1	-1	10	1	72.4	74.0					
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1	9	3	36.3	36.3	-10	9	6	35.7	33.7	4	9	8	16.8	15.1	2	10	1	0.8	0.8					
2	9	3	13.5	13.2	-9	9	6	12.2	11.9	-9	9	9	10.3	9.0	3	10	1	30.6	31.2					
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4	9	3	66.6	65.9	-7	9	6	16.9	15.8	-7	9	9	2.8	1.4	4	10	1	53.8	53.4					
5	9	3	30.4	29.8	-6	9	6	54.9	54.2	-6	9	9	25.9	26.2	5	10	1	14.2	12.8					
6	9	3	31.6	31.4	-5	9	6	12.8	13.7	-5	9	9	33.8	33.7	6	10	1	15.3	13.8					
7	9	3	36.3	36.9	-4	9	6	20.6	20.0	-4	9	9	3.1	2.7	7	10	1	1.8	4.5					
8	9	3	17.1	15.8	-3	9	6	26.3	25.2	-3	9	9	11.5	9.1	8	10	1	8.0	4.5					
9	9	3	9.4	7.8	-2	9	6	93.7	94.3	-2	9	9	23.0	22.3	9	10	2	14.5	13.9					
-10	9	4	27.4	26.0	-1	9	6	10.3	9.5	0	9	9	5.5	7.4	-10	10	2	13.1	15.6					
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-2	9	4	4.1	4.6	7	9	6	22.5	20.4	-4	9	10	17.5	17.3	-1	10	2	9.6	9.3					

0	10	2	42.6	43.1	-8	10	5	10.2	9.8	-8	10	8	28.9	26.2	1	11	1	4.8	3.9
1	10	2	6.4	4.0	-7	10	5	3.9	3.7	-7	10	8	9.2	9.5	2	11	1	163.8	164.2
2	10	2	11.1	12.0	-6	10	5	27.4	26.8	-6	10	8	27.6	27.7	3	11	1	20.5	20.5
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-8	10	3	56.7	55.9	4	10	5	2.5	1.3	4	10	8	44.3	43.3	13	11	2	13.1	13.0
-7	10	3	24.4	23.8	5	10	5	10.7	9.8	5	10	8	16.8	15.5	14	11	2	30.3	31.4
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-4	10	3	14.5	16.1	8	10	6	14.2	12.0	8	10	9	45.7	45.1	17	11	2	11.7	11.8
-3	10	3	35.7	35.3	9	10	6	6.3	1.9	9	10	9	7.2	5.0	18	11	2	32.4	32.5
-2	10	3	32.8	32.8	10	10	6	15.4	13.7	10	10	9	15.7	14.7	19	11	2	34.9	34.0
-1	10	3	47.7	47.5	11	10	6	19.2	19.5	11	10	9	19.1	16.7	20	11	2	41.9	41.4
0	10	3	4.8	4.7	12	10	6	1.0	5.9	12	10	9	32.5	31.3	21	11	2	17.2	18.0
1	10	3	43.4	44.5	13	10	6	28.1	28.5	13	10	9	2.2	4.8	22	11	2	27.7	28.2
2	10	3	19.7	20.7	14	10	6	8.4	9.1	14	10	9	6.8	6.1	23	11	2	15.2	15.4
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5	10	3	10.5	11.5	17	10	6	19.5	19.2	17	10	10	5.3	8.7	26	11	2	14.5	14.2
6	10	3	44.8	44.3	18	10	6	22.9	22.5	18	10	10	32.2	30.4	27	11	2	5.9	7.4
7	10	3	30.5	30.0	19	10	6	18.2	17.6	19	10	10	13.8	15.0	28	11	3	27.7	26.8
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9	10	4	52.6	53.2	21	10	6	11.0	11.0	21	10	10	25.6	26.0	30	11	3	24.5	22.8
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-3	10	4	3.1	4.2	29	10	7	9.5	7.9	29	10	10	6.3	6.2	38	11	3	23.3	22.8
-2	10	4	14.1	15.4	30	10	7	38.8	37.3	30	10	10	28.5	28.2	39	11	3	16.4	15.6
-1	10	4	40.3	42.3	31	10	7	13.3	13.5	31	10	10	23.2	22.0	40	11	3	33.4	33.8
0	10	4	3.0	4.2	32	10	7	11.6	11.6	32	10	10	26.5	25.6	41	11	3	127.1	128.2
1	10	4	60.9	61.5	33	10	7	7.2	8.1	33	10	10	13.1	12.9	42	11	3	6.7	0.1
2	10	4	7.2	7.4	34	10	7	4.1	4.7	34	10	10	106.1	106.2	43	11	3	17.9	18.5
3	10	4	36.8	35.0	35	10	7	37.9	36.8	35	10	10	7.1	6.5	44	11	3	12.0	11.3
4	10	4	3.0	5.1	36	10	7	32.4	32.4	36	10	10	10.0	10.2	45	11	3	6.7	6.9
5	10	4	13.4	11.8	37	10	7	17.5	16.7	37	10	10	41.6	42.2	46	11	3	23.9	24.2
6	10	4	1.1	0.2	38	10	7	8.3	9.2	38	10	10	27.5	26.1	47	11	3	18.0	16.3
7	10	4	22.0	23.6	39	10	7	31.2	29.8	39	10	10	5.2	6.3	48	11	4	9.5	4.1
8	10	5	27.1	27.0	40	10	7	28.5	29.4	40	10	10	17.5	17.3	49	11	4	16.2	15.2
-9	10	5	44.3	45.0	41	10	8	28.5	29.4	41	10	10	17.5	17.3	50	11	4	18.7	19.6

-7	11	4	31.1	30.4	-5	11	7	23.6	23.7	4	12	1	21.9	21.3	2	12	4	75.3	73.7
-6	11	4	5.8	3.7	-4	11	7	10.0	7.1	5	12	1	10.1	11.5	3	12	4	9.2	6.8
-5	11	4	56.0	55.6	-3	11	7	7.7	6.5	6	12	1	10.9	10.5	4	12	4	16.1	16.8
-4	11	4	6.3	6.9	-2	11	7	106.6	106.5	7	12	1	44.5	43.2	5	12	4	12.6	14.7
-3	11	4	9.5	10.4	-1	11	7	5.2	2.9	8	12	1	18.2	18.6	6	12	4	24.2	22.7
-2	11	4	21.3	20.9	0	11	7	26.1	24.7	-9	12	2	17.0	18.3	-8	12	5	1.1	0.6
-1	11	4	22.3	22.3	1	11	7	17.2	16.5	-8	12	2	20.4	21.3	-7	12	5	25.8	24.1
0	11	4	18.1	19.5	2	11	7	83.4	84.3	-7	12	2	20.7	20.3	-6	12	5	15.4	15.2
1	11	4	18.9	19.3	3	11	7	15.4	15.3	-6	12	2	159.2	156.5	-5	12	5	7.5	8.6
2	11	4	5.9	3.8	4	11	7	14.9	14.6	-5	12	2	9.1	7.3	-4	12	5	19.9	20.8
3	11	4	13.9	14.4	4	11	8	41.8	41.1	-4	12	2	8.4	9.4	-3	12	5	3.3	1.7
4	11	4	39.0	38.2	-7	11	8	12.3	14.9	-3	12	2	4.0	0.7	-2	12	5	10.3	7.8
5	11	4	6.1	5.0	-6	11	8	20.4	19.4	-2	12	2	31.3	30.4	-1	12	5	21.7	21.0
6	11	4	28.3	27.8	-5	11	8	26.0	27.0	-1	12	2	11.9	11.8	0	12	5	23.4	24.0
7	11	4	4.2	1.8	-4	11	8	15.7	16.0	0	12	2	13.2	13.6	1	12	5	19.5	17.8
-9	11	5	27.8	27.1	-3	11	8	27.5	26.3	1	12	2	14.4	14.0	2	12	5	15.7	15.4
-8	11	5	1.1	1.2	-2	11	8	6.3	7.7	2	12	2	33.8	33.7	3	12	5	17.7	18.0
-7	11	5	8.1	3.6	-1	11	8	50.7	50.2	3	12	2	9.2	10.3	4	12	5	10.7	9.4
-6	11	5	110.3	110.0	0	11	8	7.1	2.3	4	12	2	26.7	26.7	5	12	5	23.1	21.8
-5	11	5	37.6	36.8	1	11	8	2.1	2.9	5	12	2	8.5	8.4	-8	12	6	14.0	14.1
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-3	11	5	23.5	22.2	-6	11	9	80.1	79.2	7	12	2	10.2	10.5	-6	12	6	14.2	12.5
-2	11	5	68.3	68.7	-5	11	9	31.2	29.7	-9	12	3	20.8	18.1	-5	12	6	17.8	16.9
-1	11	5	4.3	8.2	-4	11	9	14.7	12.8	-8	12	3	10.1	11.2	-4	12	6	8.8	6.0
0	11	5	2.9	1.4	-3	11	9	4.4	0.3	-7	12	3	23.2	22.5	-3	12	6	19.8	19.5
1	11	5	38.8	38.7	-2	11	9	83.8	82.0	-6	12	3	8.5	12.8	-2	12	6	15.2	14.8.7
2	11	5	49.0	49.4	-1	11	9	31.1	29.5	-5	12	3	14.6	13.6	0	12	6	4.5	4.1.7
3	11	5	3.2	2.0	0	11	9	8.9	8.9	-4	12	3	15.2	15.2	1	12	6	9.1	11.9
4	11	5	5.8	4.4	0	12	0	28.7	28.1	-3	12	3	29.8	28.7	0	12	6	9.9	10.7
5	11	5	5.5	3.4	1	12	0	2.5	2.5	-2	12	3	8.4	9.3	1	12	6	45.5	45.2
6	11	5	105.7	103.8	2	12	0	68.6	68.1	-1	12	3	8.4	8.3	2	12	6	5.7	7.2
-9	11	6	40.8	40.1	3	12	0	4.8	6.3	0	12	3	8.8	8.4	3	12	6	5.2	5.9
-8	11	6	40.2	38.5	4	12	0	9.0	9.6	1	12	3	19.8	19.6	-7	12	7	3.0	3.6
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-6	11	6	26.3	25.4	6	12	0	23.9	23.6	3	12	3	16.7	16.0	-5	12	7	6.8	6.9
-5	11	6	36.6	35.8	7	12	0	1.1	1.6	4	12	3	9.2	2.5	-4	12	7	34.3	32.7
-4	11	6	14.9	14.0	8	12	0	8.2	3.0	5	12	3	9.9	9.6	-3	12	7	3.7	4.9
-3	11	6	31.3	31.4	-9	12	1	1.1	1.9	6	12	3	15.0	14.5	-2	12	7	1.1	4.9
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-1	11	6	21.1	19.8	-7	12	1	1.1	1.0	8	12	4	2.5	5.0	0	12	7	36.1	34.1
0	11	6	17.5	15.8	-6	12	1	2.8	1.1	-9	12	4	25.5	21.6	1	12	7	6.0	6.0
1	11	6	1.7	4.2	-5	12	1	9.8	6.6	-8	12	4	4.8	0.5	2	12	7	3.5	6.0
2	11	6	36.3	36.4	-4	12	1	40.5	41.0	-7	12	4	21.0	21.2	3	12	7	25.4	24.0
3	11	6	25.3	24.8	-3	12	1	4.2	3.1	-6	12	4	27.0	25.8	-5	12	8	53.2	53.2
4	11	6	42.7	42.1	-2	12	1	18.2	18.8	-4	12	4	10.6	10.5	-4	12	8	2.5	5.8
5	11	6	11.2	11.5	-1	12	1	17.8	18.0	-3	12	4	6.4	3.0	-4	12	8	9.8	10.3
-9	11	7	3.5	2.1	0	12	1	3.7	0.7	-2	12	4	20.7	18.6	-3	12	8	1.1	1.1
-8	11	7	14.1	14.9	-1	12	1	4.8	6.7	-1	12	4	13.1	13.4	-2	12	8	41.4	39.3
-7	11	7	26.3	25.6	1	12	1	2.7	3.9	0	12	4	5.6	7.0	-2	12	8	22.2	21.6
-6	11	7	11.4	6.9	3	12	1	34.0	33.7	1	12	4	5.5	6.8	0	12	8	11.6	11.3

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
1	12	8	3.8	4.5	3	13	3	7.2	8.5	3	14	0	3.2	2.3	3	14	4	10.6	9.2	3	14	4	2.4	7.0
0	13	0	88.3	87.3	4	13	3	3.1	8.1	4	14	0	10.6	9.2	-5	14	5	14.8	15.2	-5	14	5	26.9	24.3
1	13	0	17.1	16.9	5	13	3	7.0	2.1	5	14	0	14.8	15.2	-4	14	5	14.8	15.3	-4	14	5	15.4	15.3
2	13	0	11.4	12.2	6	13	3	12.0	11.3	6	14	0	18.1	17.9	-3	14	5	18.1	17.9	-3	14	5	11.6	12.5
3	13	0	15.7	14.8	-8	13	4	47.0	44.8	-6	14	1	11.9	12.9	-2	14	5	11.9	12.9	-2	14	5	34.0	33.2
4	13	0	55.1	54.3	-7	12	4	19.3	18.0	-5	14	1	4.1	1.7	-1	14	5	4.1	1.7	-1	14	5	4.9	3.5
5	13	0	14.6	15.0	-6	13	4	4.4	5.6	-4	14	1	63.0	60.6	0	14	5	63.0	60.6	0	14	5	58.5	55.5
6	13	0	14.4	11.8	-5	13	4	4.6	5.7	-3	14	1	21.2	20.5	1	14	5	21.2	20.5	1	14	5	21.5	19.1
7	13	0	1.1	2.3	-4	13	4	31.1	28.9	-2	14	1	54.8	53.1	2	14	5	54.8	53.1	2	14	5	35.8	35.0
-7	13	1	6.7	4.1	-3	13	4	9.5	3.2	-1	14	1	12.1	11.1	-4	14	6	12.1	11.1	-4	14	6	57.3	56.4
-6	13	1	5.0	7.1	-2	13	4	4.8	3.8	0	14	1	9.7	8.8	-3	14	6	9.7	8.8	-3	14	6	19.7	19.7
-5	13	1	17.9	17.2	-1	13	4	12.6	10.8	1	14	1	3.8	1.5	-2	14	6	3.8	1.5	-2	14	6	33.0	29.2
-4	13	1	44.7	44.4	0	13	4	78.6	76.7	2	14	1	18.6	18.9	-1	14	6	18.6	18.9	-1	14	6	7.6	9.3
-3	13	1	1.0	0.5	1	13	4	20.9	21.2	3	14	1	34.9	32.3	0	14	6	34.9	32.3	0	14	6	16.4	16.3
-2	13	1	1.2	0.5	2	13	4	21.0	21.5	4	14	1	5.6	0.8	0	15	6	5.6	0.8	0	15	6	25.3	21.4
-1	13	1	9.5	7.6	3	13	4	12.2	12.1	5	14	1	12.8	10.0	1	15	6	12.8	10.0	1	15	6	3.6	0.8
0	13	1	6.7	4.0	4	13	4	72.6	70.8	6	14	1	11.7	12.2	2	15	6	11.7	12.2	2	15	6	18.8	18.0
1	13	1	13.5	12.8	5	13	4	7.4	8.5	6	14	1	36.5	33.0	3	15	6	36.5	33.0	3	15	6	17.8	17.0
2	13	1	9.4	10.1	-7	13	5	14.7	13.9	-5	14	2	12.0	10.1	4	15	6	12.0	10.1	4	15	6	19.2	18.5
3	13	1	19.1	18.6	-6	13	5	35.0	33.9	-4	14	2	59.4	59.1	-4	15	1	59.4	59.1	-4	15	1	5.2	7.7
4	13	1	18.2	19.0	-5	13	5	13.1	10.6	-3	14	2	19.1	18.7	-3	15	1	19.1	18.7	-3	15	1	33.4	32.3
5	13	1	6.1	1.3	-4	13	5	14.3	15.1	-2	14	2	24.0	23.2	-2	15	1	24.0	23.2	-2	15	1	3.3	10.0
6	13	1	45.3	43.7	-3	13	5	6.6	3.2	-1	14	2	16.1	16.2	-1	15	1	16.1	16.2	-1	15	1	11.1	9.1
7	13	1	30.7	29.5	-2	13	5	21.7	20.7	0	14	2	28.2	27.6	0	15	1	28.2	27.6	0	15	1	70.7	69.7
-8	13	2	34.1	34.5	-1	13	5	2.9	1.0	1	14	2	2.6	3.3	1	15	1	2.6	3.3	1	15	1	3.9	6.3
-7	13	2	14.3	15.4	0	13	5	46.6	45.5	2	14	2	1.1	2.8	2	15	1	1.1	2.8	2	15	1	23.0	23.9
-6	13	2	6.7	1.9	1	13	5	12.9	11.8	3	14	2	5.0	5.9	4	15	1	5.0	5.9	4	15	1	23.0	21.1
-5	13	2	23.2	22.5	2	13	5	16.1	16.1	4	14	2	26.3	25.8	4	15	1	26.3	25.8	4	15	1	80.5	78.1
-4	13	2	71.8	70.2	3	13	5	7.9	7.1	5	14	2	28.0	26.5	-4	15	2	28.0	26.5	-4	15	2	11.7	8.0
-3	13	2	11.8	11.0	4	13	5	11.5	10.2	-6	14	3	10.8	9.1	-3	15	2	10.8	9.1	-3	15	2	9.5	9.1
-2	13	2	11.9	13.9	-7	13	6	15.8	15.5	-5	14	3	17.4	17.9	-2	15	2	17.4	17.9	-2	15	2	9.8	7.8
-1	13	2	2.7	3.7	-6	13	6	22.3	23.1	-4	14	3	30.7	28.7	-1	15	2	30.7	28.7	-1	15	2	5.0	1.2
0	13	2	7.2	5.7	-5	13	6	17.3	17.7	-3	14	3	30.7	28.7	0	15	2	30.7	28.7	0	15	2	5.5	4.8
1	13	2	8.4	8.5	-4	13	6	69.5	68.4	-2	14	3	16.4	17.8	1	15	2	16.4	17.8	1	15	2	31.4	31.3
2	13	2	15.5	13.9	-3	13	6	24.3	23.4	-1	14	3	23.2	23.5	2	15	2	23.2	23.5	2	15	2	17.0	18.3
3	13	2	7.4	6.3	-2	13	6	6.4	6.8	0	14	3	10.7	11.2	3	15	2	10.7	11.2	3	15	2	23.9	23.3
4	13	2	3.6	1.0	-1	13	6	15.9	16.2	1	14	3	24.6	24.0	-4	15	3	24.6	24.0	-4	15	3	83.3	81.2
5	13	2	5.8	8.0	0	13	6	46.1	45.3	2	14	3	14.7	13.7	-3	15	3	14.7	13.7	-3	15	3	11.0	9.0
6	13	2	5.4	2.3	1	13	6	4.4	4.6	3	14	3	1.1	2.1	-2	15	3	1.1	2.1	-2	15	3	33.3	31.5
-8	13	3	26.8	26.9	2	13	6	14.3	13.2	4	14	3	16.4	15.1	-1	15	3	16.4	15.1	-1	15	3	11.2	10.6
-7	13	3	23.5	22.8	-5	13	7	21.3	23.2	-6	14	4	26.1	24.9	0	15	3	26.1	24.9	0	15	3	79.6	76.5
-6	13	3	23.4	21.8	-4	13	7	26.4	26.0	-5	14	4	14.2	15.3	1	15	3	14.2	15.3	1	15	3	32.7	30.3
-5	13	3	6.2	7.2	-3	13	7	1.1	4.9	-4	14	4	7.1	5.8	1	15	3	7.1	5.8	1	15	3	13.2	13.5
-4	13	3	9.0	7.5	-2	13	7	4.8	1.7	-3	14	4	6.6	6.9	-3	15	4	6.6	6.9	-3	15	4	29.3	28.7
-3	13	3	26.5	25.3	-1	13	7	2.9	5.1	-2	14	4	30.7	28.1	-2	15	4	30.7	28.1	-2	15	4	7.1	7.9
-2	13	3	57.0	55.0	0	13	7	11.1	11.0	-1	14	4	17.2	15.5	-1	15	4	17.2	15.5	-1	15	4	4.4	3.5
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0	13	3	23.5	22.7	1	13	7	48.9	47.8	1	14	4	6.7	9.3	1	15	4	6.7	9.3	1	15	4	15.4	14.6
1	13	3	15.7	13.5	1	14	0	6.7	6.4	2	14	4	5.7	3.0	1	15	4	5.7	3.0	1	15	4	100.0	93.3
2	13	3	8.2	4.8	2	14	0	6.8	5.4	2	14	4	5.7	3.0	0	16	0	5.7	3.0	0	16	0		