Title
BIS[BIS(PENTAMETHYLCYCLOPENTADIENYL)YTTERBIUM(III)]DITELLURIDE

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Abstract. $[(Me_5C_5)_2Yb]_2Te_2$, $C_{40}H_{60}Te_2Yb_2$, M_r = 1142.20, monoclinic, $P2_1/n$, a = 15.517(3) Å, b = 10.611(2) Å, c = 13.166(3) Å, β = 114.34(2)°, V = 1975.1 $Å^3$, Z = 2, Dx = 1.92 g cm^{-3}, λ(MoKα) = 0.71073 Å, μ = 61.71 cm^{-1}, F(000) = 1088, T = 296°K, R = 0.036 for 3330 [$F^2 > 2\sigma(F^2)$] of 4560 total unique data. The Te_2^{-2} ion is on a center of symmetry and lies perpendicular to and in between the two Yb atoms. Each Yb atom is bonded approximately tetrahedrally to two cyclopentadienyl rings centers and the Te_2^{-2} ion. Distances (Å) are: ave. Yb-C 2.626(17), ave. Yb-Cp(centroid) 2.332(18), Te-Te 2.7686(11) Å.

Experimental. The complex was isolated from the reaction of $Yb[C_5(CH_3)_5]_2 \cdot O(C_2H_5)_2$ with a large excess of tellurium powder in hexane after stirring for 2 days at room temperature. Black air-sensitive crystals were sealed inside quartz capillaries under argon. Crystal, 0.25 × 0.25 × 0.33 mm with eight faces; modified Picker automatic diffractometer, graphite monochromator; cell dimensions from 28 reflections, $20 < 2\theta < 54°$; analytical absorption correction, range 2.4-3.8; max. $(\sin\theta/\lambda) = 0.65$ Å^{-1}; h -20 to 20, k 0 to 13, ℓ -17 to 17; three standard reflections, average decay 0.8%, intensities adjusted accordingly; 8993 data, 4560 unique, $R_{int} = 0.023$; structure solved by Patterson and Fourier methods; refined on F, f' and f" terms included, 199 parameters; hydrogen atoms not observed in difference maps and were not included; anisotropic thermal parameters for all atoms refined; R = 0.036 for 3330 reflections for which $F^2 > 2\sigma(F^2)$; R = 0.055 all data; wR = 0.052; S = 1.38; $w = 4F_o/[\sigma^2(F_o^2)+(0.06F_o^2)^2]$; max. $(\text{shift}/\sigma)<0.05$; extinction correction $F_{corr} = (1 + 4.8\times10^{-8}I)F_o$, extinction parameter estimated after each series of refinements, max correction 11%; max. and min. of ΔF synthesis 1.6 and -1.4 e Å^{-3}; atomic f, f' and f" for neutral Yb, Te and C from International Tables for X-ray Crystallography (1974); local unpublished programs and ORTEP(Johnson, 1965).

Atomic parameters are listed in Table 1, and distances and angles are listed in Table 2.* Fig. 1 shows the molecule and numbering scheme.

* Lists of structure factors, anisotropic thermal parameters, additional distances and angles, and least-squares planes have been deposited with the British Library Document Supply Centre as Supplementary Publication No. (13 pp). Copies may be obtained through The Executive Secretary International Union of Crystallography, 5 Abbey Square, Chester CH1 2HU, England.

Related Literature. Comparable distance for Te-Te is 2.78 Å in $AuTe_2X$, X = Cl or I (Haendler, Mootz, Rabenau & Rosenstein, 1974) and 2.802(1) Å in

$[\{CH_3C(CH_2P(C_6H_5)_2)_3\}Ni]_2[\mu\text{-}Te_2]\cdot 2C_4H_8O$ (Di Vaira, Peruzzini & Stoppioni, 1986). The latter is the only structurally characterized compound with the same geometry for the Te_2 unit as that found in the present work. A comparable distance for Yb-Cp is 2.347(2) Å in $(Me_5C_5)_2Yb(C_6H_5S)(NH_3)$ (Zalkin, Henly & Andersen, 1987).

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Zalkin, A., Henly, T.J. & Andersen, R. A. (1987). Acta Cryst. C43, 233-236.

Table 1. Atomic Parameters

$$Beq = \sum B_{ij} a_i^* a_j^* a_i \cdot a_j / 3$$

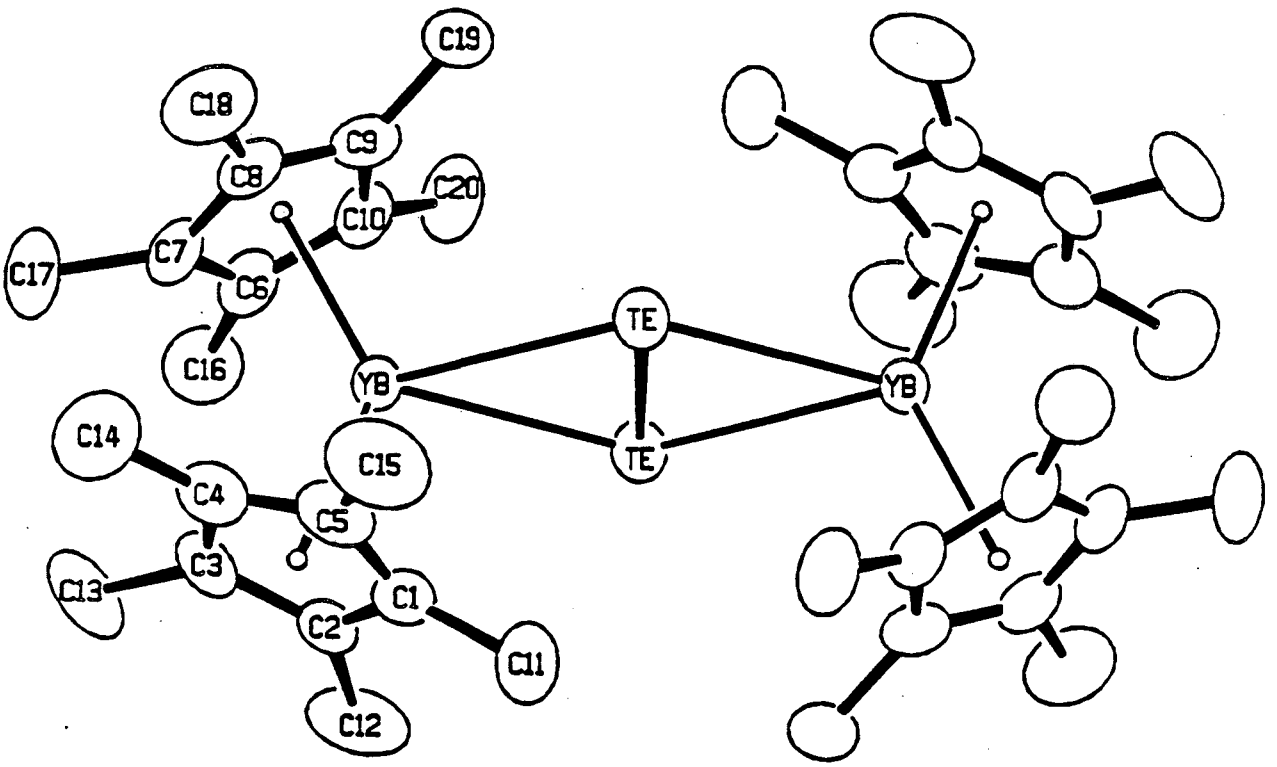
Atom	x	y	z	Beq
Yb	0.16540(2)	0.07854(3)	-0.02377(2)	2.656(9)
Te	0.05403(3)	-0.07689(4)	0.08828(4)	3.43(2)
C1	0.1697(6)	0.2522(7)	0.1192(7)	3.7(2)
C2	0.1706(5)	0.3167(6)	0.0264(7)	3.6(2)
C3	0.2584(6)	0.2928(7)	0.0192(7)	4.1(3)
C4	0.3112(6)	0.2094(7)	0.1103(8)	4.4(3)
C5	0.2554(6)	0.1844(7)	0.1702(7)	4.2(3)
C6	0.1835(5)	0.0476(7)	-0.2110(6)	3.5(2)
C7	0.2764(5)	0.0245(8)	-0.1270(6)	3.5(2)
C8	0.2717(6)	-0.0846(7)	-0.0692(7)	3.7(2)
C9	0.1786(6)	-0.1345(7)	-0.1208(7)	3.8(3)
C10	0.1232(5)	-0.0508(7)	-0.2093(6)	3.5(2)
C11	0.0950(8)	0.2726(10)	0.1658(10)	6.3(4)
C12	0.0970(9)	0.4095(8)	-0.0467(10)	6.7(4)
C13	0.2962(10)	0.3655(10)	-0.0528(12)	7.8(6)
C14	0.4163(7)	0.1799(12)	0.1501(12)	8.1(5)
C15	0.2877(10)	0.1090(11)	0.2775(9)	7.0(5)
C16	0.1544(7)	0.1523(9)	-0.2991(8)	5.1(3)
C17	0.3649(7)	0.0846(9)	-0.1232(9)	5.5(4)
C18	0.3546(7)	-0.1478(10)	0.0237(7)	5.5(3)
C19	0.1504(7)	-0.2631(7)	-0.0948(9)	5.1(4)
C20	0.0263(6)	-0.0778(9)	-0.2988(7)	4.8(3)

Table 2. Selected Distances (Å) and Angles (°)

Cp1	- Yb	2.319	Te	- Yb - Cp1	107.67
Cp2	- Yb	2.344	Te	- Yb - Cp2	113.83
C1	- Yb	2.616(7)	Te	- Yb - Cp1	109.31
C2	- Yb	2.605(7)	Te	- Yb - Cp2	112.59
C3	- Yb	2.627(7)	Cp1	- Yb - Cp2	133.32
C4	- Yb	2.621(8)	Te	- Yb - Te	52.04(2)
C5	- Yb	2.607(8)	Yb	- Te - Yb	127.96(2)
C6	- Yb	2.614(7)	Yb	- Te - Te	63.82(2)
C7	- Yb	2.659(7)	Yb	- Te - Te	64.14(2)
C8	- Yb	2.625(7)			
C9	- Yb	2.646(7)			
C10	- Yb	2.638(7)			
Te	- Yb	3.1513(9)			
Te	- Yb	3.1598(7)			
Te	- Te	2.7686(11)			

Cp1 and Cp2 represent the centroids of cyclopentadienyl atoms C1-C5 and C6-C(10) respectively.

Fig 1. ORTEP (Johnson, 1965) drawing of molecule; 50% probability ellipsoids.



Supplemental Materials

Bis[bis(pentamethylcyclopentadienyl)ytterbium(III)]ditelluride

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Supplemental Table 1. Anisotropic Thermal Parameters[a]

Atom	B11	B22	B33	B12	B13	B23
Yb	2.861(13)	2.530(13)	3.053(14)	-0.253(10)	1.696(10)	-0.104(10)
Te	3.601(22)	3.206(20)	4.014(23)	-0.047(16)	2.112(18)	0.344(16)
C1	4.4(3)	2.99(28)	4.3(3)	-0.57(26)	2.27(29)	-1.19(26)
C2	3.9(3)	2.28(25)	4.8(4)	-0.53(23)	2.2(3)	-0.32(25)
C3	4.6(4)	3.2(3)	4.9(4)	-1.86(28)	2.4(3)	-1.09(28)
C4	3.6(3)	3.6(3)	5.3(4)	-0.74(27)	1.2(3)	-1.1(3)
C5	5.4(4)	3.4(3)	3.3(3)	-0.9(3)	1.1(3)	-0.67(26)
C6	3.9(3)	4.4(3)	3.07(29)	0.44(26)	2.26(27)	0.29(25)
C7	3.6(3)	4.4(3)	3.7(3)	0.23(27)	2.56(27)	-0.24(27)
C8	3.9(3)	3.9(3)	4.0(3)	0.85(27)	2.44(28)	-0.13(27)
C9	5.5(4)	2.92(28)	4.2(4)	0.69(27)	3.1(3)	-0.20(25)
C10	3.4(3)	4.2(3)	3.3(3)	0.00(25)	1.95(26)	-0.54(24)
C11	6.9(6)	6.8(5)	7.9(6)	-2.8(5)	5.5(5)	-3.6(5)
C12	7.2(6)	3.2(4)	7.4(6)	0.9(4)	0.7(5)	0.9(4)
C13	11.8(9)	5.1(5)	10.3(9)	-3.8(6)	8.3(8)	-0.8(5)
C14	2.8(4)	8.0(7)	11.5(9)	-0.2(4)	1.0(5)	-2.7(6)
C15	9.8(8)	6.2(5)	4.0(4)	0.0(5)	1.7(5)	1.1(4)
C16	6.1(5)	4.8(4)	4.8(4)	1.0(4)	2.5(4)	1.7(3)
C17	4.4(4)	7.5(6)	6.2(5)	-1.5(4)	3.7(4)	-0.9(4)
C18	5.7(5)	6.3(5)	3.7(4)	2.1(4)	1.1(4)	0.7(4)
C19	7.4(5)	2.9(3)	7.3(5)	-0.2(3)	5.1(5)	-0.3(3)
C20	3.6(3)	7.3(5)	3.8(3)	-0.5(3)	1.64(29)	-0.9(4)

[a] The isotropic temperature factor has the form

$T = -\sum(h_i h_j B_{ij} a_i^* a_j^*)/4$ in units of $Å^2$.

Supplemental Table 2. Additional Angles in $[(CH_3)_5C_5]_2YbTe_2Yb[C_5(CH_3)_5]_2$

C2 -C1	1.406(11)	C2 -C1-C5	108.5(7)	C7 -C6 -C10	109.0(7)
C5 -C1	1.415(12)	C2 -C1-C11	123.9(8)	C7 -C6 -C16	126.7(7)
C11-C1	1.535(11)	C5 -C1-C11	126.8(8)	C10-C6 -C16	123.9(7)
C3 -C2	1.427(11)	C1 -C2-C3	108.8(7)	C6 -C7 -C8	107.4(7)
C12-C2	1.514(12)	C1 -C2-C12	126.5(8)	C6 -C7 -C17	124.8(8)
C4 -C3	1.443(12)	C3 -C2-C12	124.3(8)	C8 -C7 -C17	125.8(8)
C13-C3	1.515(12)	C2 -C3-C4	106.5(7)	C7 -C8 -C9	108.5(7)
C5 -C4	1.416(12)	C2 -C3-C13	125.3(9)	C7 -C8 -C18	125.8(8)
C14-C4	1.526(12)	C4 -C3-C13	126.8(9)	C9 -C8 -C18	125.3(8)
C15-C5	1.517(12)	C3 -C4-C5	108.1(8)	C8 -C9 -C10	107.9(7)
C10-C6	1.408(10)	C3 -C4-C14	124.8(9)	C8 -C9 -C19	124.0(8)
C16-C6	1.534(11)	C5 -C4-C14	125.6(10)	C10-C9 -C19	127.5(8)
C8 -C7	1.404(10)	C1 -C5-C4	108.1(7)	C6 -C10-C9	107.0(7)
C17-C7	1.496(11)	C1 -C5-C15	126.5(9)	C6 -C10-C20	125.8(7)
C9 -C8	1.422(12)	C4 -C5-C15	125.1(9)	C9 -C10-C20	126.0(8)
C18-C8	1.517(11)				
C10-C9	1.436(11)				
C19-C9	1.515(11)				
C20-C10	1.506(11)				

Least-Squares Planes

Plane No.1

Equation of the Plane: 0.18590 a + 0.78983 b + 0.45991 c = 3.31170

Distance to the plane from

atoms in plane			atoms not in plane		
Atom	d(Å)	σ(d)	Atom	d(Å)	σ(d)
C1	0.008	0.011	Yb	-2.319	0.004
C2	-0.007	0.012	C11	0.243	0.019
C3	0.003	0.012	C12	0.120	0.020
C4	0.003	0.013	C13	0.289	0.021
C5	-0.008	0.013	C14	0.298	0.022
			C15	0.097	0.021

Plane No. 2

Equation of the Plane: -0.55554 a + 0.53294b + 0.81048 c = -3.57876

Distance to the plane from

atoms in plane			atoms not in plane		
Atom	d(Å)	σ(d)	Atom	d(Å)	σ(d)
C6	0.015	0.011	Yb	2.344	0.004
C7	-0.020	0.011	C16	-0.083	0.017
C8	0.020	0.011	C17	-0.403	0.017
C9	-0.011	0.012	C18	-0.062	0.017
C10	-0.004	0.010	C19	-0.218	0.018
			C20	-0.276	0.016

Angle between the planes = 46.3(4)

OBSERVED STRUCTURE AMPLITUDES, STANDARD DEVIATIONS, AND DIFFERENCES (ALL X 2.0)
(ME5C5)2YB TE YB(ME5C5)2 F(0,0,0) = 1924

SG = Estimated standard deviation of Fob. DEL = /Fob/- /Fca/, where
Fob and Fca are the observed and calculated structure amplitudes.
F000 = 2.0 x (no. of electrons in the unit cell adjusted for dispersion and omitted atoms).
* indicates zero weighted data.

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
K,L=	0,	0		-14	278	12	-16	11	29	7	-5	-18	30	6	-9	11	0	21	-9*	4	220	7	-11	-2	370	13	16	-6	260	8	-2
2	264	8	-14	-12	163	5	14	13	61	3	2	-16	137	4	-6	12	26	8	-7*	5	150	5	-8	-1	44	2	-10	-5	334	10	-7
4	265	8	18	-10	63	3	-1	K,L=	0,	8		-14	143	5	-13	13	40	3	0	6	55	2	3	0	260	8	7	-4	103	3	0
6	299	9	-22	-8	120	4	-7	-20	145	5	4	-12	76	3	-2	14	118	4	-1	7	24	3	7	1	130	4	-1	-3	334	10	-20
8	312	10	-30	-6	617	24	-56	-18	65	3	-2	-10	53	3	0	15	90	3	-2	8	159	5	-12	2	196	6	-5	-2	126	4	-4
10	309	10	-13	-4	198	8	-1	-16	138	4	-1	-8	198	6	-2	16	18	22	-14*	9	260	8	-7	3	484	15	-31	-1	314	10	-7
12	151	5	7	-2	434	15	18	-14	99	3	-9	-6	88	3	-4	17	78	3	3	10	19	21	11*	4	10	17	-9*	0	160	5	-2
14	75	3	2	0	139	4	1	-12	259	12	-14	-4	262	8	-3	18	0	25	-8*	11	41	3	-1	5	117	4	-8	1	127	4	4
16	34	4	1	2	162	5	-21	-10	185	8	-5	-2	32	3	-3	K,L=	1,	1		12	34	6	2	6	19	10	7*	2	230	7	-12
18	132	4	11	4	459	14	-31	-8	319	14	-28	0	0	21	-6*	-18	118	4	8	13	152	5	0	7	186	6	-5	3	221	7	-7
K,L=	0,	1		6	138	4	-7	-6	11	19	4*	2	164	5	5	-17	16	23	-4*	14	68	3	-1	8	164	5	8	4	52	3	-1
-17	87	3	-3	8	89	3	-2	-4	52	2	-1	4	80	3	3	-16	41	3	-3	15	28	8	-10*	9	60	3	13	5	31	6	-7
-15	173	5	2	10	83	3	-8	-2	461	14	-14	6	58	3	0	-15	27	9	-6*	16	25	11	-3*	10	12	20	0*	6	54	3	3
-13	14	19	8*	12	175	6	0	0	70	3	6	K,L=	0,	13		-14	108	4	-4	17	33	9	3	11	38	3	2	7	242	8	3
-11	12	22	4*	14	57	3	-1	2	180	6	0	-17	78	3	-7	-13	134	4	-11	K,L=	1,	3		12	41	3	-2	8	111	4	-5
-9	548	17	-33	K,L=	0,	5		4	83	3	9	-15	10	24	7*	-12	57	3	20	-19	72	3	6	13	154	5	4	9	15	20	5*
-7	104	3	2	-19	58	3	1	6	158	5	-1	-13	209	7	-12	-11	93	3	2	-18	82	3	-2	14	19	20	-8*	10	26	8	-6*
-5	420	14	-8	-17	64	3	-1	8	110	4	-6	-11	29	4	3	-10	240	8	-15	-17	21	7	1*	15	34	4	2	11	8	21	-2*
-3	201	6	-18	-15	199	6	-11	10	84	3	-1	-9	6	22	-14*	-9	79	3	-8	-16	99	3	1	K,L=	1,	5		12	61	3	2
1	598	18	-49	-13	68	3	-7	12	0	23	-6*	-7	159	5	-3	-8	288	9	-12	-15	22	18	4*	-19	67	3	3	13	79	3	1
3	421	13	-32	-11	359	11	1	K,L=	0,	9		-5	178	6	4	-7	17	7	5*	-14	208	7	-13	-18	29	5	-3	14	14	23	1*
5	153	5	5	-9	46	3	1	-19	66	3	-1	-3	132	4	4	-6	347	11	-22	-13	61	3	1	-17	32	4	1	K,L=	1,	7	
7	81	3	6	-7	129	6	-7	-17	206	6	-13	-1	44	3	2	-5	215	7	-22	-12	89	3	19	-16	48	3	4	-20	126	4	0
9	415	13	-14	-5	424	17	-60	-15	40	4	3	1	63	3	0	-4	75	3	-6	-11	159	5	1	-15	96	3	0	-19	37	4	2
11	59	3	3	-3	440	13	-14	-13	23	6	-2	3	22	11	-3*	-3	108	3	-7	-10	37	3	1	-14	201	6	-5	-18	24	11	-5*
13	117	4	-1	-1	335	10	-4	-11	253	8	-1	5	109	4	9	-2	133	4	6	-9	106	3	-1	-13	65	3	4	-17	46	3	1
15	74	3	2	1	122	4	-9	-9	116	4	-6	K,L=	0,	14		-1	359	11	3	-8	166	5	-2	-12	220	7	15	-16	39	3	0
17	76	3	6	3	400	12	-18	-7	323	10	-14	-16	66	3	-8	0	840	26	21	-7	78	3	-5	-11	136	4	3	-15	119	4	4
K,L=	0,	2		5	91	3	-1	-5	116	4	-5	-14	154	5	-3	1	225	7	12	-6	588	18	-24	-10	174	6	0	-14	99	3	-4
-18	122	4	2	7	228	7	14	-3	206	6	-3	-12	109	4	-4	2	20	4	6	-5	223	7	13	-9	100	3	3	-13	93	3	7
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H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
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-2	106	3	-1	-13	22	15	-5*	-10	121	4	4	-6	287	9	-10	-6	347	11	-4	-2	352	11	-14	4	41	3	6	-16	32	8	-3
-1	105	3	11	-12	92	3	1	-9	9	24	-10*	-5	342	10	-12	-5	27	2	13	-1	312	10	-7	5	86	3	-1	-15	30	5	-3
0	61	3	5	-11	29	8	-8	-8	20	20	6*	-4	86	3	-3	-4	28	2	4	0	39	2	2	6	72	3	1	-14	31	4	6
1	274	9	-1	-10	70	3	-3	-7	15	23	8*	-3	55	2	13	-3	93	3	20	1	125	4	-7	7	55	3	-1	-13	96	3	2

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
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-11	31	7	-5	-15	70	3	-4	-12	11	20	6*	-11	300	9	8	-9	284	9	5	-3	241	7	-3	7	101	3	4	-6	82	3	-3
-10	63	3	-1	-14	87	3	-5	-11	155	5	18	-10	13	19	5*	-8	0	17	-2*	-2	32	3	6	8	16	19	6*	-5	19	21	-11*
-9	68	3	0	-13	0	23	-11*	-10	30	4	-5	-9	328	10	-18	-7	489	16	2	-1	199	6	2	9	51	3	-2	-4	140	4	-3
-8	96	3	-1	-12	69	3	4	-9	137	4	0	-8	30	2	-4	-6	80	3	4	0	31	3	-4	10	17	22	3*	-3	14	21	6*
-7	135	117	-53*	-11	51	3	0	-8	47	2	-1	-7	220	7	2	-5	126	4	-5	1	139	4	0	K,L=	3,	10		-2	123	4	0
-6	86	3	7	-10	62	3	0	-7	76	3	0	-6	70	2	3	-4	43	2	0	2	19	20	11*	-19	19	19	11*	-1	0	21	-4*
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-3	37	3	2	-7	17	22	-6*	-4	15	6	11*	-3	65	2	4	-1	514	16	-11	5	78	3	4	-16	87	3	0	2	15	21	7*
-2	167	5	-7	-6	16	21	14*	-3	181	6	2	-2	42	13	25*	0	47	2	2	6	27	7	4	-15	22	11	14*	3	0	21	0*
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1	130	4	-4	-3	77	3	1	0	132	4	16	1	29	2	-1	3	328	10	-7	9	70	3	-5	-12	304	9	0	6	98	3	5
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7	29	5	0	3	40	4	0	6	9	16	-12*	7	230	7	-7	9	132	4	-8	-18	41	3	-2	-6	190	6	19	-13	68	3	-2
8	15	20	11*	K,L=	2,	15		7	199	6	-7	8	11	19	-5*	10	17	20	15*	-17	19	12	11*	-5	35	3	7	-12	18	22	13*
K,L=	2,	12		-15	19	21	4*	8	6	19	-12*	9	206	6	10	11	128	4	-4	-16	198	6	4	-4	252	8	7	-11	71	3	1
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-16	86	3	0	-12	55	3	-3	11	88	3	7	12	28	7	-3	14	0	23	-4*	-13	0	19	-8*	-1	14	20	11*	-8	16	22	12*
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-12	53	3	4	-8	139	4	-2	15	77	3	-1	16	0	24	-3*	-17	0	21	-2*	-9	29	4	2	3	0	21	-11*	-4	20	14	-1*
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-9	196	6	-2	-5	47	3	-1	K,L=	3,	2		-18	91	3	0	-14	86	3	0	-6	334	10	-13	6	160	5	0	-1	59	3	1
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-6	0	20	-10*	-2	42	3	-3	-16	59	3	-3	-15	38	3	3	-11	49	2	1	-3	28	4	2	9	15	20	8*	2	17	21	15*
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-3	176	6	-3	1	12	22	10*	-13	0	20	-1*	-12	35	3	-9	-8	159	5	-1	0	90	3	4	-17	77	3	1	5	30	7	4
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0	14	21	7*	-12	35	4	-4	-10	334	13	-12	-9	8	17	-5*	-5	79	5	12	3	15	19	12*	-14	18	19	12*	-15	5	24	-1*
1	118	7	7	-11	46	4	-4	-9	61	2	-3	-8	76	3	1	-4	95	3	7	4	105	3	-3	-13	193	6	3	-14	88	3	0
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K,L=	2,	13		-4	67	3	4	-2	523	16	40	-1	33	2	0	3	0	17	-5*	11	19	23	14*	-6	16	20	10*	-7	16	19	7*
-18	140	5	5	-3	15	22	5*	-1	56	2	12	0	433	13	-2	4	98	3	-3	K,L=	3,	9		-5	7	21	-2*	-6	85	3	0
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-16	16	21	4*	K,L=	3,	0		1	142	4	26	2	309	9	-19	6	69	3	12	-18	16	18	1*	-3	291	9	-6	-4	12	21	8*
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-14	45	3	0	2	170	5	0	3	89	3	-3	4	3	17	-8*	8	168	5	-9	-16	18	21	-1*	-1	14	20	-5*	-2	61	3	-3
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-12	118	4	-1	4	620	22	-16	5	6	14	0*	6	25	7	-7*	10	45	3	4	-14	23	9	21*	1	85	3	-5	0	132	4	4
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-9	15	22	12*	7	14	13	13*	8	337	10	-9	9	24	5	9	13	19	23	10*	-11	184	6	1	4	10	18	6*	3	10	22	9*
-8	169	5	-6	8	172	5	-2	9	55	3	4	10	12	20	7*	K,L=	3,	7		-10	0	21	-13*	5	93	3	0	K,L=	3,	15	
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-6	65	3	-6	10	176	6	15	11	0	20	-8*	12	82	3	-3	-18	0	21	-1*	-8	10	21	-1*	7	78	3	3	-14	16	21	14*
-5	93	3	-1	11	20	11	1*	12	0	21	-10*	13	0	22	-7*	-17	95	3	3	-7	260	8	13	8	0	23	-5*	-13	43	4	4
-4	68	3	-3	12	63	3	2	13	7	22	-12*	14	61	3	-3	-16	12	20	0*	-6	20	13	-9*	K,L=	3,	12		-12	22	14	7*
-3	75	3	3	13	12	21	11*	14	153	5	0	15	0	23	-4*	-15	222	7	0	-5	49	3	7	-18	153	5	8	-11	59	3	2
-2	62	3	-4	14	216	7	-3	15	0	22	-3*	K,L=	3,	5		-14	7	18	5*	-4	19	20	18*	-17	10	24	3*	-10	21	14	8*
-1	22	18	-12*	15	11	19	4*	16	56	3	-5	-19	123	4	0	-13	91	3	-2	-3	333	10	13	-16	16	22	9*	-9	159	5	4
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1	47	3	0	17	0	23	-10*	-19	137	4	5	-17	64	3	-1	-11	24	4	-3	-1	24	8	12*	-14	14	22	-2*	-7	21	14	-11*
2	18	19	-6*	K,L=	3,	1		-18	15	23	10*	-16	14	21	2*	-10	16	20	-1*	0	31	4	-2	-13	11	23	5*	-6	17	19	10*
3	10	21	6*	-18	19	21	3*	-17	33	4	2	-15	182	6	6	-9	81	3	5	1	27	8	-6	-12	211	7	4	-5	129	4	-2
4	27	5	0	-17	39	4	-2	-16	16	21	13*	-14	43	3	-4	-8	13	19	5*	2	8	21	1*	-11	13	21	7*	-4	22	6	2
5	51	3	0	-16	0	21	-2*	-15	44	3	-1	-13	114	4	0	-7	417	13	-4	3	183	6	-4	-10	70	3	0	-3	42	3	-2
K,L=	2,	14		-15	74	3	3	-14	48	3	0	-12	34	3	0	-6	45	2	-5	4	8	20	-4*	-9	0	19	-6*	-2	23	16	9*
-17	121	4	5	-14	0	22	-8*	-13	168	5	-4	-11	232	7	10	-5	143	4	1	5	111	4	-3	-8	159	5	-2	-1	28	9	0*

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
0	0	23	-1*	-13	180	6	-5	-10	9	19	-7*	-6	196	6	-7	2	99	3	1	-14	24	9	9*	-11	33	7	-6	1	132	4	7
K,L=	3,	16		-12	21	9	-4*	-9	233	7	-10	-5	161	5	1	3	227	7	-2	-13	77	3	4	-10	21	20	-13*	2	84	3	1
-13	17	24	11*	-11	240	7	15	-8	79	3	2	-4	70	2	5	4	46	3	-7	-12	237	7	5	-9	180	6	5	3	125	4	-1
-12	25	12	-5*	-10	47	3	2	-7	277	9	1	-3	108	3	3	5	89	3	-1	-11	54	3	-1	-8	25	10	-2*	4	246	8	4
-11	18	23	13*	-9	188	6	0	-6	220	7	-8	-2	152	5	-4	6	40	3	-4	-10	20	21	1*	-7	36	4	-1	5	331	10	0
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-9	15	21	0*	-7	112	4	-6	-4	50	2	-3	0	18	8	10*	8	43	3	-5	-8	140	4	-3	-5	80	3	-4	7	133	4	3
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K,L=	4,	0		0	214	7	-3	3	147	5	1	7	72	3	-2	-17	67	3	5	-1	40	3	3	2	23	11	1*	14	13	22	9*
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1	259	8	4	2	33	2	0	5	113	4	-1	9	89	3	-7	-15	8	21	0*	1	68	3	0	-14	108	4	3	16	0	23	-20*
2	15	3	9	3	120	4	-3	6	45	3	1	10	30	4	-1	-14	10	18	7*	2	6	22	-19*	-13	55	3	2	K,L=	5,	2	
3	252	8	2	4	183	6	-2	7	216	7	-2	11	116	4	-4	-13	10	21	-7*	3	29	8	1	-12	31	9	-11	-17	35	4	-4
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H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
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7	120	4	9	13	15	23	3*	-9	66	3	6	7	67	3	2	-14	61	3	2	10	20	5	0	-17	0	21	-1*	-9	25	6	11
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-14	149	5	-1	-4	17	18	4*	9	14	21	-8*	2	0	22	-9*	-17	49	3	-2	-11	102	3	-1	-3	264	8	0	7	184	6	-2
-13	52	2	-3	-3	142	4	-2	K,L=	5,	10		3	19	20	-13*	-16	18	22	6*	-10	65	2	2	-2	26	3	6	8	18	19	-3*
-12	157	5	-5	-2	326	10	10	-18	58	3	1	4	20	17	8*	-15	126	4	4	-9	213	7	29	-1	210	7	4	9	0	22	-4*
-11	123	4	1	-1	113	4	4	-17	131	4	6	5	78	3	3	-14	27	5	-4	-8	15	19	-13*	0	62	2	2	10	0	23	-14*
-10	114	4	1	0	0	19	-17*	-16	48	3	-5	K,L=	5,	13		-13	0	21	-12*	-7	192	6	-5	1	111	4	7	11	38	4	-2
-9	112	4	7	1	101	3	4	-15	13	21	-12*	-16	69	3	3	-12	22	9	2*	-6	0	18	-11*	2	77	3	6	K,L=	6,	8	
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-6	289	9	-7	4	106	3	-5	-12	184	6	3	-13	15	20	-12*	-9	338	11	10	-3	110	3	1	5	98	3	2	-16	109	4	-2
-5	70	2	2	5	63	3	1	-11	109	4	-2	-12	76	3	5	-8	12	17	-3*	-2	61	2	-2	6	14	19	-10*	-15	26	4	-3
-4	65	2	-1	6	116	4	2	-10	17	20	-4*	-11	34	4	1	-7	90	3	6	-1	38	2	-5	7	192	6	-5	-14	72	3	-3
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0	36	2	1	10	52	3	1	-6	106	3	-1	-7	32	4	2	-3	174	5	1	3	360	11	-4	11	18	19	5*	-10	160	5	-1
1	36	2	-1	11	65	3	0	-5	100	3	-2	-6	11	21	-2*	-2	13	13	8*	4	14	17	6*	12	14	23	-4*	-9	8	17	4*
2	82	3	3	12	5	24	-13*	-4	143	4	-1	-5	31	4	-5	-1	352	11	-4	5	152	5	0	13	97	4	-2	-8	233	7	5
3	204	6	0	K,L=	5,	8		-3	53	3	-1	-4	145	5	1	0	58	2	2	6	7	19	-10*	K,L=	6,	6		-7	81	3	5
4	240	8	14	-18	20	15	-11*	-2	135	4	1	-3	74	3	0	1	375	11	3	7	97	3	8	-18	24	9	2*	-6	2	20	-11*
5	51	3	10	-17	109	4	-3	-1	66	3	-2	-2	19	17	7*	2	13	14	5*	8	20	9	-2*	-17	11	21	-1*	-5	30	6	-6
6	108	3	3	-16	113	4	0	0	70	3	0	-1	28	8	0	3	320	10	6	9	137	4	-1	-16	9	20	7*	-4	14	17	-9*
7	104	3	-3	-15	22	10	-1*	1	158	5	-4	0	5	22	-1*	4	88	3	-1	10	17	18	3*	-15	45	3	-1	-3	40	3	6
8	74	3	-4	-14	20	16	3*	2	41	3	-4	1	88	3	1	5	21	7	1*	11	36	3	4	-14	136	4	-1	-2	304	9	7
9	83	3	-2	-13	0	19	-13*	3	57	3	2	2	69	3	1	6	27	3	-3	12	14	19	12*	-13	17	13	8*	-1	17	19	3*
10	44	3	0	-12	151	5	0	4	12	21	9*	3	22	15	-6*	7	17	14	4*	13	127	4	0	-12	181	6	-4	0	24	8	-4*

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
1	26	4	-3	-6	17	20	5*	-6	28	5	7	6	18	11	14*	-17	0	23	-19*	-3	65	3	-1	-10	11	20	2*	K,L=	7,	14	
2	140	4	-2	-5	111	4	1	-5	82	3	5	7	31	3	2	-16	44	3	8	-2	300	9	10	-9	94	3	1	-11	24	11	-10*
3	41	3	5	-4	18	14	-2*	-4	9	21	-1*	8	60	2	-1	-15	14	21	-9*	-1	56	3	2	-8	0	21	-3*	-10	10	23	4*
4	81	3	0	-3	25	7	5*	K,L=	7,	0		9	189	6	-2	-14	144	5	2	0	19	18	4*	-7	220	7	-1	-9	38	6	-4
5	21	11	6*	-2	28	7	-6	1	296	9	-1	10	11	16	8*	-13	20	10	1*	1	11	18	9*	-6	49	3	1	-8	41	4	-3
6	111	4	0	-1	53	3	-4	2	57	2	5	11	19	12	-1*	-12	146	5	-3	2	84	3	0	-5	79	3	-5	-7	60	3	-4
7	7	22	-2*	0	22	12	-11*	3	140	4	2	12	3	21	-5*	-11	33	3	1	3	79	3	0	-4	47	3	-2	-6	23	16	12*
8	94	3	2	1	153	5	1	4	81	3	8	13	116	4	2	-10	127	4	-1	4	98	3	1	-3	26	4	0	-5	93	3	2
9	10	22	8*	2	10	20	-6*	5	89	3	5	14	32	4	0	-9	49	2	0	5	24	5	-2	-2	43	3	1	-4	18	23	13*
10	73	3	2	3	49	3	-4	6	52	2	0	K,L=	7,	3		-8	97	3	8	6	121	4	3	-1	66	3	-4	-3	70	3	0
K,L=	6,	9		4	15	19	0*	7	28	3	11	-17	22	25	12*	-7	66	3	4	7	16	22	11*	0	13	21	-15*	-2	23	14	-7*
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-15	25	8	6*	K,L=	6,	12		10	22	5	1	-14	170	5	7	-4	49	2	6	10	54	3	-1	3	47	3	-2	1	115	4	11
-14	7	20	6*	-16	115	4	5	11	23	5	3	-13	39	3	1	-3	13	19	2*	K,L=	7,	8		4	18	21	-4*	2	0	18	-14*
-13	15	18	-6*	-15	15	22	10*	12	0	20	-1*	-12	75	3	-3	-2	306	9	24	-17	111	4	4	5	53	3	1	3	70	3	-2
-12	64	3	4	-14	113	4	-3	13	47	3	-1	-11	55	3	-2	-1	115	4	6	-16	52	3	4	6	86	4	0	4	43	3	5
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-9	91	3	-2	-11	18	21	6*	K,L=	7,	1		-8	119	4	10	2	84	3	-8	-13	19	12	7*	-14	86	3	-1	7	86	3	-1
-8	15	19	3*	-10	54	3	-3	-16	26	9	-4*	-7	5	19	-11*	3	94	3	1	-12	55	3	-2	-13	43	3	-3	8	126	4	0
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-5	108	3	-4	-7	13	18	-4*	-13	39	3	1	-4	134	4	-4	6	123	4	-4	-9	44	3	-2	-10	45	3	1	11	62	3	0
-4	48	3	3	-6	35	4	-1	-12	43	3	-3	-3	13	16	-3*	7	10	21	-8*	-8	16	17	-5*	-9	41	3	3	12	58	3	-4
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-1	139	4	-2	-3	24	14	-9*	-9	0	17	-6*	0	202	6	2	10	50	3	-3	-5	80	3	-6	-6	62	3	0	15	37	4	3
0	19	12	-3*	-2	38	3	0	-8	191	6	4	1	14	18	-3*	11	27	5	2	-4	48	2	0	-5	8	20	2*	K,L=	8,	1	
1	196	6	-5	-1	19	12	4*	-7	19	9	6*	2	129	4	1	12	90	3	2	-3	180	6	0	-4	124	4	-3	-15	65	3	-1
2	23	10	-9*	0	12	22	-10*	-6	249	8	23	3	9	19	1*	K,L=	7,	6		-2	35	3	2	-3	61	3	0	-14	110	4	1
3	45	3	1	1	28	9	-1*	-5	120	4	4	4	297	9	15	-17	57	3	-1	-1	178	6	-3	-2	61	3	-1	-13	13	20	9*
4	0	21	-7*	2	111	4	1	-4	18	14	5*	5	45	3	6	-16	51	3	5	0	44	3	0	-1	17	20	15*	-12	0	20	-4*
5	33	4	-4	3	0	23	-12*	-3	15	16	0*	6	68	3	-2	-15	91	3	-1	1	167	5	-1	0	51	3	-1	-11	7	20	-8*
6	20	17	-6*	4	63	3	1	-2	16	9	4*	7	42	3	-1	-14	5	20	3*	2	58	3	-3	1	17	19	-1*	-10	105	4	-2
7	106	4	-3	K,L=	6,	13		-1	50	2	0	8	41	3	-3	-13	10	17	7*	3	6	20	2*	2	126	4	1	-9	177	6	-2
8	0	23	-3*	-15	14	20	10*	0	426	13	4	9	45	3	5	-12	13	19	3*	4	22	13	3*	3	22	10	3*	-8	63	2	1
9	24	6	4	-14	0	23	-17*	1	21	6	-4	10	84	3	-4	-11	255	8	-4	5	0	21	-16*	4	54	3	1	-7	26	4	-2
K,L=	6,	10		-13	175	6	2	2	49	2	-1	11	27	4	2	-10	67	3	-2	6	28	8	0	5	0	23	-11*	-6	71	3	0
-17	14	24	-3*	-12	0	23	-12*	3	12	17	-2*	12	130	4	-1	-9	18	5	5*	7	136	4	2	K,L=	7,	12		-5	149	5	7
-16	160	5	3	-11	39	3	-4	4	193	6	8	13	8	23	2*	-8	29	3	1	8	19	22	3*	-15	10	20	-8*	-4	254	8	16
-15	15	19	3*	-10	19	21	-3*	5	103	3	3	14	36	4	0	-7	15	19	7*	9	23	10	15*	-14	20	22	13*	-3	80	3	21
-14	87	3	-5	-9	14	21	8*	6	109	3	20	K,L=	7,	4		-6	82	3	-1	K,L=	7,	9		-13	141	5	-3	-2	137	4	11
-13	28	7	-5	-8	24	9	-1*	7	45	3	5	-17	17	23	-21*	-5	238	7	16	-16	125	4	-1	-12	58	3	-5	-1	176	5	1
-12	34	4	-6	-7	122	4	1	8	178	6	-5	-16	23	10	4*	-4	40	3	12	-15	49	3	-1	-11	44	3	-4	0	68	3	2
-11	52	3	1	-6	14	21	5*	9	18	12	6*	-15	165	5	2	-3	230	7	12	-14	65	3	-2	-10	16	9	-4*	1	176	5	11
-10	73	3	-2	-5	128	4	1	10	154	5	0	-14	15	20	9*	-2	22	8	1*	-13	48	3	-2	-9	58	3	-1	2	48	2	13
-9	56	3	-2	-4	17	22	2*	11	14	19	5*	-13	46	3	-1	-1	242	8	6	-12	100	3	1	-8	24	13	-6*	3	146	5	15
-8	242	7	-3	-3	103	4	-1	12	114	4	-1	-12	2	19	-2*	0	90	3	5	-11	20	20	4*	-7	140	4	2	4	198	6	8
-7	23	5	-1	-2	6	22	4*	13	29	4	1	-11	156	5	-3	1	135	4	8	-10	117	4	1	-6	20	12	-8*	5	26	4	4
-6	74	3	-1	-1	64	3	-1	14	15	19	13*	-10	64	2	1	2	89	3	2	-9	6	20	-11*	-5	113	4	-4	6	58	2	0
-5	5	19	3*	0	29	8	5	15	24	6	5	-9	106	3	3	3	169	5	-6	-8	222	7	-6	-4	16	19	-8*	7	12	18	4*
-4	87	3	-3	1	71	3	2	K,L=	7,	2		-8	16	16	9*	4	29	4	0	-7	57	3	-1	-3	64	3	-2	8	115	4	-4
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-2	133	4	-1	K,L=	6,	14		-15	144	5	1	-6	22	5	11	6	18	20	-8*	-5	30	3	5	-1	46	3	-4	10	13	18	-8*
-1	3	20	-1*	-13	16	23	16*	-14	46	3	1	-5	331	10	11	7	183	6	-3	-4	21	8	-3*	0	0	22	-27*	11	23	9	4*
0	73	3	0	-12	94	3	2	-13	3	20	-11*	-4	31	5	-4	8	29	4	1	-3	71	3	1	1	98	3	0	12	0	21	-1*
1	7	21	-4*	-11	6	20	-3*	-12	12	19	8*	-3	163	5	11	9	11	21	2*	-2	176	6	-3	2	0	20	0*	13	49	3	-1
2	175	6	-2	-10	92	3	-3	-11	27	6	1	-2	71	3	1	10	12	21	7*	-1	15	19	1*	3	23	11	2*	14	92	3	0
3	17	21	-4*	-9	23	12	-4*	-10	70	3	-4	-1	48	2	2	11	11	22	-2*	0	59	3	1	K,L=	7,	13		K,L=	8,	2	
4	41	3	-8	-8	53	3	-2	-9	245	8	-2	0	71	3	5	K,L=	7,	7		1	8	18	5*	-13	3	24	-14*	-15	16	22	-1*
5	31	4	-3	-7	0	20	-1*	-8	29	3	4	1	115	4	16	-17	18	22	-2*	2	156	5	0	-12	86	3	2	-14	94	3	-4
6	18	22	-2*	-6	8	22	-1*	-7	133	4	7	2	31	3	5	-16	45	3	-1	3	54	3	0	-11	40	3	-1	-13	97	3	-1
7	17	22	11*	-5	20	20	4*	-6	33	3	3	3	349	11	13	-15	47	3	1	4	52	3	-6	-10	66	3	-4	-12	31	6	-13
K,L=	6,	11		-4	159	5	5	-5	305	9	7	4	21	5	-2	-14	76	3	-8	5	21	6	-2	-9	57	3	-5	-11	122	4	1	
-16	10	20	-3*	-3	13	23	4*	-4	94	3	2	5	73	3	0	-13	34	3	0	6	51	3	-1	-8	80	3	-4	-10	74	3	0
-15	24	10	-7*	-2	26	9	5*	-3	92	3	-1	6	40	3	-3	-12	172	5	2	7	6	23	-17*	-7	15	21	15*	-9	92	3	2
-14	0	21	-6*	-1	18	23	7*	-2	87	3	1	7	136	4	-4	-11	16	18	5*	8	51	3	-1	-6	24	9	12*	-8	92	3	0
-13	116	4	-3	0	33	4	3	-1	178	6	-2	8	78	3	3	-10	171	6	0	K,L=	7,	10		-5	15	20	-4*	-7	86	3	-1
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-10	12	18	11*	-10	22	23	3*	2	24	6	1	11	35	4	-1	-7	124	4	-1	-14	12	20	8*	-2	15	22	-3*	-4	75	3	-4
-9	97	3	3	-9	74	3	-1	3	312	10	11	12	25	10	1*	-6	87	3	3	-13	72	3	-4	-1	13	19	13*	-3	48	2	5
-8	49	3	2	-8	8	23	-8*	4	70	3	5	13	106	4	2	-5	28	3	5	-12	56	3	-2	0	0	22	-4*	-2	36	3	13
-7	215	7	0	-7	59	3	2	5	98	3	-5	K,L=	7,	5		-4	8	19	-16*	-11	119	4	1	1	32	5	0	-1	264	8	20

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
0	213	7	17	K,L=	8,	5		1	77	3	-1	0	47	3	-2	-7	53	2	-2	10	0	21	-14*	1	17	17	4*	3	109	4	-2
1	0	16	-9*	-16	81	3	3	2	152	5	-2	1	19	19	-1*	-6	49	2	0	11	55	3	-4	2	172	5	-2	4	9	21	-4*
2	61	2	4	-15	83	3	-3	3	21	9	1*	2	98	3	-1	-5	261	8	-2	12	30	8	1	3	3	20	-11*	5	69	3	2
3	9	18	5*	-14	18	15	14*	4	40	3	5	3	67	3	-2	-4	0	19	-18*	K,L=		9,	4	4	53	3	2	K,L=		9,	10
4	181	6	0	-13	6	20	-14*	5	0	20	-5*	4	32	4	0	-3	83	3	1	-15	38	4	1	5	13	17	6*	-13	31	7	1
5	197	6	-6	-12	4	19	-2*	6	47	3	2	5	38	7	-7	-2	0	19	-5*	-14	13	22	-13*	6	31	4	-2	-12	158	5	3
6	41	3	-5	-11	155	5	-3	7	110	4	2	K,L=		8,	11	-1	241	8	4	-13	30	7	1	7	44	3	0	-11	11	21	-1*
7	122	4	0	-10	169	5	6	8	38	4	-5	-14	12	22	9*	0	111	4	4	-12	14	19	3*	8	90	3	1	-10	20	21	-7*
8	88	3	1	-9	37	3	-1	9	0	23	-8*	-13	75	3	-2	1	81	3	9	-11	47	3	-2	9	17	21	11*	-9	24	9	-1*
9	90	3	2	-8	56	2	-1	K,L=		8,	8	-12	123	4	-2	2	18	13	14*	-10	228	7	-4	K,L=		9,	7	-8	12	20	-8*
10	81	3	-1	-7	78	3	-2	-16	60	3	-1	-11	32	4	-1	3	48	2	2	-9	4	19	1*	-15	119	4	2	-7	47	3	-1
11	47	3	1	-6	149	5	-1	-15	93	3	2	-10	35	3	-1	4	48	2	-1	-8	41	3	-2	-14	13	21	0*	-6	98	3	-2
12	95	3	1	-5	186	6	8	-14	35	3	-3	-9	63	3	3	5	263	8	-5	-7	25	7	-3	-13	71	3	-4	-5	27	7	0
13	58	3	3	-4	56	2	7	-13	80	3	-1	-8	39	3	2	6	5	19	-1*	-6	98	3	-1	-12	44	3	3	-4	118	4	-2
K,L=		8,	3	-3	170	5	2	-12	94	3	0	-7	117	4	1	7	108	3	2	-5	70	3	-5	-11	0	20	-18*	-3	13	21	-4*
-16	42	3	-4	-2	128	4	2	-11	35	3	2	-6	49	3	-1	8	32	6	-4	-4	115	4	-1	-10	44	3	0	-2	108	4	-4
-15	115	4	2	-1	98	3	1	-10	93	3	2	-5	69	3	-1	9	67	3	2	-3	39	3	7	-9	53	3	-1	-1	0	20	-3*
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-12	8	19	4*	2	162	5	-3	-7	168	5	0	-2	84	3	0	12	20	22	-6*	0	182	6	-1	-6	14	17	4*	2	49	3	1
-11	68	3	-5	3	188	6	-1	-6	17	19	-4*	-1	24	5	-11	13	106	4	3	1	16	18	0*	-5	54	2	1	3	0	22	-2*
-10	197	6	-2	4	14	19	1*	-5	31	3	-3	0	57	3	-4	K,L=		9,	2	2	147	5	-4	-4	4	19	-1*	4	16	22	-1*
-9	111	4	-5	5	18	12	-6*	-4	13	17	-3*	1	91	3	-2	-14	101	3	3	3	70	3	1	-3	104	3	-1	K,L=		9,	11
-8	11	18	-4*	6	32	3	3	-3	116	4	-1	2	0	22	-16*	-13	9	19	-8*	4	15	19	-11*	-2	83	3	4	-12	9	23	-3*
-7	95	3	-3	7	112	4	0	-2	158	5	-2	3	18	20	-3*	-12	16	20	-2*	5	18	11	2*	-1	106	3	-4	-11	92	3	2
-6	46	2	1	8	113	4	0	-1	50	3	-3	K,L=		8,	12	-11	0	21	-7*	6	13	18	-5*	0	15	17	11*	-10	5	21	1*
-5	238	7	6	9	25	8	0*	0	14	19	-6*	-13	64	3	6	-10	199	6	1	7	20	12	-7*	1	78	3	1	-9	101	3	-3
-4	154	5	21	10	16	21	13*	1	52	3	-2	-12	46	3	3	-9	45	3	-2	8	167	5	-2	2	24	9	-6*	-8	46	3	1
-3	86	3	14	11	14	23	-8*	2	86	3	2	-11	65	3	-4	-8	19	10	-11*	9	14	19	-2*	3	156	5	4	-7	25	9	-6*
-2	171	5	10	K,L=		8,	6	3	125	4	1	-10	16	22	-12*	-7	9	18	-3*	10	0	21	-13*	4	14	20	-9*	-6	16	18	14*
-1	81	3	-2	-16	19	21	15*	4	28	7	-8	-9	102	3	-4	-6	4	18	-2*	11	19	22	2*	5	37	3	0	-5	10	21	-1*
0	171	5	5	-15	86	3	1	5	48	3	-3	-8	87	3	-1	-5	77	3	-4	K,L=		9,	5	6	23	17	-15*	-4	37	3	1
1	77	3	13	-14	66	3	1	6	59	3	1	-7	15	18	6*	-4	261	8	-3	-15	78	3	1	7	0	22	-6*	-3	165	5	-1
2	86	3	17	-13	48	3	-4	7	28	8	1*	-6	0	21	-15*	-3	6	19	-3*	-14	37	4	-4	8	18	20	-2*	-2	15	21	-3*
3	233	7	4	-12	126	4	3	8	49	3	3	-5	15	21	-6*	-2	226	7	3	-13	59	3	-2	K,L=		9,	8	-1	20	14	-2*
4	79	3	0	-11	80	3	2	K,L=		8,	9	-4	107	4	0	-1	29	3	-2	-12	21	10	-3*	-14	17	19	2*	0	17	21	-2*
5	59	2	3	-10	95	3	0	-15	17	22	2*	-3	109	4	-1	0	168	5	1	-11	133	4	2	-13	10	19	7*	1	51	3	3
6	43	3	-2	-9	76	3	-1	-14	10	21	1*	-2	23	5	-1	1	37	3	5	-10	59	3	0	-12	119	4	-3	2	32	4	0
7	44	3	-1	-8	55	2	0	-13	19	6	3*	-1	15	21	-5*	2	83	3	-2	-9	97	3	2	-11	44	3	-3	K,L=		9,	12
8	158	5	1	-7	216	7	-5	-12	127	4	-5	0	25	9	5*	3	55	2	-1	-8	11	17	-6*	-10	34	6	-11	-11	17	22	14*
9	80	3	-3	-6	117	4	1	-11	108	4	-1	1	57	3	-1	4	157	5	-7	-7	194	6	-2	-9	11	17	0*	-10	41	3	2
10	8	20	1*	-5	35	3	1	-10	28	4	-1	K,L=		8,	13	5	39	3	1	-6	58	2	5	-8	72	3	7	-9	17	22	12*
11	35	3	-2	-4	20	9	2*	-9	51	3	-1	-11	18	23	2*	6	66	3	-3	-5	32	3	2	-7	63	3	4	-8	88	3	-1
12	16	23	-8*	-3	39	3	0	-8	27	4	6	-10	30	8	-6	7	8	20	5*	-4	23	4	0	-6	186	6	-1	-7	34	4	3
13	76	3	3	-2	238	7	-3	-7	141	4	0	-9	15	21	8*	8	182	6	3	-3	28	5	-1	-5	8	19	-4*	-6	48	3	-2
K,L=		8,	4	-1	138	4	-3	-6	125	4	-4	-8	89	3	0	9	45	3	-5	-2	98	3	0	-4	110	4	2	-5	35	4	2
-16	21	23	-15*	0	21	8	-3*	-5	35	3	-3	-7	57	3	0	10	15	18	0*	-1	248	8	-12	-3	35	3	-1	-4	74	3	4
-15	32	4	2	1	47	2	5	-4	93	3	-1	-6	34	4	-1	11	30	4	7	0	12	19	-4*	-2	57	3	3	-3	23	13	-1*
-14	126	4	2	2	11	17	0*	-3	57	3	-3	-5	79	3	4	12	10	22	4*	1	56	2	1	-1	30	3	2	-2	74	3	3
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-12	81	3	-2	4	93	3	-2	-1	62	3	-2	-3	55	3	6	-15	22	17	1*	3	140	4	-3	1	33	3	3	K,L=		9,	13
-11	130	4	3	5	33	5	-4	0	50	3	-3	-2	51	3	-1	-14	47	3	-3	4	46	3	0	2	134	4	-3	-6	12	22	9*
-10	28	4	-2	6	84	3	3	1	109	4	0	-1	21	22	-3*	-13	94	3	-3	5	42	3	-2	3	6	21	1*	K,L=		10,	0
-9	122	4	-1	7	20	12	6*	2	90	3	1	K,L=		9,	0	-12	1	20	-18*	6	28	4	2	4	45	3	-2	0	53	3	2
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-7	120	4	2	9	65	3	3	4	22	16	-8*	2	108	3	5	-10	13	20	11*	8	0	22	-16*	6	82	3	-1	2	4	16	-7*
-6	237	7	3	10	30	4	0	5	22	6	-1	3	45	2	-2	-9	143	4	1	9	90	3	1	7	13	23	-19*	3	81	3	-2
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-4	50	2	0	-16	108	4	2	7	56	3	0	5	25	4	1	-7	99	3	-1	K,L=		9,	6	-14	18	19	0*	5	228	7	-1
-3	16	18	9*	-15	29	7	-1	K,L=		8,	10	6	89	3	0	-6	85	3	-4	-15	10	19	4*	-13	101	3	-4	6	8	19	3*
-2	130	4	8	-14	26	7	2	-15	62	3	4	7	16	16	15*	-5	109	3	3	-14	24	9	4*	-12	4	21	-8*	7	56	3	-1
-1	242	8	18	-13	16	18	-5*	-14	45	3	-5	8	86	3	-4	-4	40	3	-3	-13	16	20	10*	-11	86	3	-2	8	6	17	-2*
0	86	3	6	-12	70	3	-3	-13	91	3	3	9	67	3	-2	-3	45	2	5	-12	43	3	2	-10	16	18	-2*	9	13	19	12*
1	20	13	8*	-11	152	5	-1	-12	14	21	9*	10	81	3	-4	-2	18	19	-4*	-11	62	3	-1	-9	58	3	-4	10	29	7	0
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3	97	3	0	-9	0	19	-14*	-10	46	3	2	12	27	8	1	0	33	3	1	-9	0	19	-16*	-7	141	4	1	12	14	22	-8*
4	183	6	-2	-8	63	3	0	-9	69	3	-1	13	18	20	12*	1	9	18	-4*	-8	91	3	-6	-6	0	20	-17*	K,L=		10,	1
5	89	3	-2	-7	60	3	-4	-8	151	5	4	K,L=		9,	1	2	41	2	-2	-7	15	19	8*	-5	21	5	-7	-13	3	23	-11*
6	87	3	0	-6	180	6	-3	-7	65	3	-1	-14	19	20	-10*	3	61	2	1	-6	201	6	3	-4	15	20	9*	-12	21	13	-5*
7	86	3	1	-5	87	3	0	-6	46	3	-1	-13	132	4	2	4	61	2	2	-5	40	3	5	-3	179	6	-2	-11	19	20	17*
8	14	20	-4*	-4	59	2	-2	-5	14	18	0*	-12	11	21	-3*	5	156	5	-4	-4	69	3	-1	-2	36	3	0	-10	121	4	-2
9	97	3	0	-3	156	5	1	-4	60	3	-2	-11	106	3	-3	6	17	19	-1*	-3	56	2	1	-1	22	10	-8*	-9	37	3	-1
10	36	3	-2	-2	14	19	-1*	-3	144	5	-1	-10	38	3	0	7	128	4	3	-2	82	3	-4	0	18	20	-4*	-8	33	3	-5
11	57	3	3	-1	128	4	0	-2	69	3	-2	-9	47	3	2	8	8	19	-9*	-1	56	2	0	1	13	20	4*	-7	18	19	-3*
12	88	3	4	0	70	3	-2	-1	7	20	-6*	-8	46	3	-2	9	121	8	8	0	100	3	-4	2	35	3	1	-6	55	2	3

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
-5	18	19	12*	-8	17	19	3*	-5	24	9	-8*	1	91	3	4	6	34	3	1	-4	0	20	-15*	-8	64	3	-1	-1	28	4	-3
-4	231	7	-4	-7	132	4	-1	-4	82	3	-5	2	64	3	-3	7	84	3	0	-3	68	3	-2	-7	16	20	7*	0	0	21	-12*
-3	19	10	-8*	-6	49	2	4	-3	36	3	7	3	53	3	-2	8	18	18	14*	-2	107	4	0	-6	144	5	-2	1	22	14	0*
-2	119	4	-2	-5	25	4	1	-2	13	20	12*	4	176	6	-3	9	55	3	3	-1	53	3	-3	-5	31	6	-7	2	6	21	-5*
-1	50	2	2	-4	13	18	1*	-1	27	4	2	5	19	12	-4*	K,L=	11,		4	0	20	17	11*	-4	8	20	5*	3	32	7	-4
0	72	3	-1	-3	16	18	5*	0	51	3	-4	6	43	3	1	-12	12	21	7*	1	43	3	4	-3	0	19	-10*	K,L=	12,		7
1	13	18	-4*	-2	37	3	0	1	18	20	2*	7	26	7	-5	-11	49	3	-4	2	27	8	-6*	-2	18	13	-4*	-8	20	13	-3*
2	62	2	1	-1	248	8	-2	2	161	5	1	8	52	3	0	-10	123	4	0	3	108	4	-1	-1	79	3	2	-7	35	4	1
3	25	7	0	0	30	3	-1	3	0	21	-3*	9	102	3	-1	-9	52	3	-1	4	56	3	-1	0	146	5	0	-6	48	3	2
4	210	7	1	1	23	7	2*	4	44	3	-1	10	50	3	-5	-8	15	18	-6*	K,L=	11,		8	1	14	17	7*	-5	70	3	-5
5	14	19	12*	2	14	19	11*	5	8	19	-11*	11	14	21	9*	-7	45	3	4	-10	25	9	-8*	2	41	3	0	-4	19	21	-1*
6	72	3	-2	3	84	3	0	6	63	3	-4	K,L=	11,		1	-6	61	3	-3	-9	13	19	0*	3	0	21	-16*	-3	94	3	-3
7	13	19	-1*	4	36	3	2	K,L=	10,		8	-11	52	3	-3	-5	119	4	0	-8	44	3	3	4	119	4	2	-2	8	21	3*
8	131	4	-3	5	68	3	-5	-13	87	3	-4	-10	71	3	1	-4	55	3	1	-7	66	3	0	5	36	3	-5	-1	87	3	2
9	32	3	4	6	21	10	8*	-12	9	22	-10*	-9	43	3	1	-3	43	3	-2	-6	114	4	0	6	40	3	-3	0	11	21	-1*
10	34	4	-8	7	98	3	2	-11	44	3	-3	-8	56	3	1	-2	109	4	-1	-5	52	3	-5	7	31	7	-3	1	66	3	-1
11	0	21	-4*	8	0	22	-5*	-10	17	18	-2*	-7	30	6	-6	-1	42	3	2	-4	74	3	-4	K,L=	12,		3	K,L=	12,		8
12	30	7	2	9	92	3	-1	-9	51	3	-4	-6	80	3	-1	0	111	4	-1	-3	63	3	-1	-9	77	3	-4	-6	3	21	-10*
K,L=	10,		2	10	16	22	-3*	-8	15	19	-2*	-5	150	5	-1	1	61	3	-1	-2	41	3	1	-8	10	21	0*	-5	12	21	8*
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-12	11	21	-5*	-13	1	19	-10*	-6	13	18	1*	-3	34	3	1	3	102	3	-1	0	30	7	-9	-6	21	16	14*	-3	36	4	2
-11	110	4	1	-12	4	21	-14*	-5	41	3	0	-2	0	19	-7*	4	0	20	-8*	1	59	3	-1	-5	142	5	0	-2	122	4	1
-10	24	12	5*	-11	19	12	-6*	-4	0	20	-9*	-1	105	3	-2	5	32	4	-7	2	94	3	-2	-4	41	3	-2	-1	11	21	8*
-9	95	3	0	-10	163	5	0	-3	141	4	-3	0	144	5	2	6	16	19	4*	3	0	22	-2*	-3	61	3	-3	K,L=	13,		0
-8	5	19	-8*	-9	35	3	-3	-2	41	3	-2	1	27	6	-1	7	56	3	0	K,L=	11,		9	-2	70	3	0	1	103	3	-1
-7	52	3	-4	-8	61	3	-1	-1	40	3	-5	2	30	3	-1	8	98	3	1	-9	35	4	1	-1	24	5	0	2	22	9	-3*
-6	31	3	-1	-7	27	7	-1	0	20	16	19*	3	49	3	4	K,L=	11,		5	-8	76	3	1	0	42	3	-3	3	70	3	-4
-5	152	5	-1	-6	142	4	-1	1	41	3	4	4	61	3	-2	-12	58	3	1	-7	76	3	2	1	79	3	-5	4	16	18	-2*
-4	9	16	2*	-5	43	3	-3	2	17	22	0*	5	146	5	-1	-11	54	3	4	-6	16	20	4*	2	24	8	-2*	5	44	3	-1
-3	44	2	2	-4	46	3	-3	3	138	4	1	6	40	3	-4	-10	36	6	-4	-5	0	21	-8*	3	137	4	-3	6	9	21	6*
-2	19	10	-3*	-3	43	3	-1	4	19	21	4*	7	70	3	1	-9	77	3	-1	-4	19	13	-2*	4	14	21	-11*	K,L=	13,		1
-1	239	7	0	-2	117	4	0	5	67	3	3	8	36	3	-4	-8	49	3	-2	-3	106	4	1	5	43	3	1	-6	97	3	0
0	64	2	-1	-1	11	17	6*	K,L=	10,		9	9	25	5	1	-7	122	4	-3	-2	73	3	1	6	14	19	10*	-5	27	5	1
1	21	4	8	0	137	4	-2	-12	142	5	-3	10	69	3	3	-6	97	3	-1	-1	3	21	-10*	7	39	3	0	-4	0	18	-4*
2	12	16	3*	1	26	7	-2	-11	27	5	2	K,L=	11,		2	-5	19	12	-9*	0	0	22	-2*	K,L=	12,		4	-3	11	20	0*
3	35	3	3	2	156	5	0	-10	28	7	-1	-11	5	21	-6*	-4	43	3	3	1	12	20	5*	-9	40	3	-1	-2	21	14	10*
4	40	3	-1	3	38	3	0	-9	0	21	-3*	-10	107	4	2	-3	17	19	4*	K,L=	11,		10	-8	52	3	-3	-1	21	11	6*
5	177	6	-1	4	35	3	2	-8	20	11	7*	-9	99	3	2	-2	105	3	3	-7	75	3	1	-7	46	3	2	0	149	5	-2
6	16	17	0*	5	0	20	-5*	-7	15	21	-12*	-8	10	20	3*	-1	135	4	-3	-6	50	3	-2	-6	147	5	-6	1	24	5	11
7	116	4	1	6	21	10	-5*	-6	143	5	-2	-7	43	3	-1	0	6	20	-12*	-5	31	4	-4	-5	6	20	5*	2	21	12	-5*
8	0	21	0*	7	9	19	-13*	-5	25	5	-1	-6	24	7	5*	1	35	3	4	-4	80	3	0	-4	35	6	-4	3	8	18	-2*
9	87	3	3	8	121	4	1	-4	120	4	-3	-5	103	3	2	2	0	20	-13*	-3	22	17	7*	-3	3	19	0*	4	70	3	0
10	24	13	-5*	9	21	22	10*	-3	12	18	2*	-4	118	4	-2	3	90	3	-2	-2	57	3	0	-2	97	3	-3	5	19	18	3*
11	28	8	-8	K,L=	10,		6	-2	89	3	3	-3	48	3	1	4	86	3	-1	K,L=	12,		0	-1	76	3	-3	K,L=	13,		2
K,L=	10,		3	-13	52	3	-1	-1	38	3	1	-2	115	4	-1	5	32	4	0	0	183	6	-4	0	54	3	-4	-6	17	21	15*
-13	10	22	8*	-12	34	3	-1	0	54	3	-1	-1	66	3	5	6	31	4	-3	1	26	7	-1	1	17	20	4*	-5	106	4	0
-12	17	17	12*	-11	56	3	0	1	14	21	2*	0	88	3	-1	7	49	3	0	2	0	19	-6*	2	26	8	-5*	-4	20	12	-1*
-11	15	21	-2*	-10	6	20	5*	2	90	3	2	1	75	3	-2	K,L=	11,		6	3	24	7	0*	3	17	18	-4*	-3	42	3	-3
-10	187	6	-1	-9	78	3	-1	3	21	14	3*	2	37	3	-1	-12	38	5	3	4	57	3	-1	4	125	4	1	-2	24	5	9
-9	42	3	-4	-8	12	19	-4*	K,L=	10,		10	3	115	4	3	-11	97	3	3	5	69	3	0	5	0	21	-13*	-1	64	3	0
-8	18	11	6*	-7	196	6	-5	-11	86	3	0	4	108	4	0	-10	84	3	0	6	81	3	-3	6	38	3	-5	0	17	21	11*
-7	26	4	-3	-6	44	3	3	-10	19	19	-3*	5	39	3	6	-9	13	20	3*	7	23	9	0*	K,L=	12,		5	1	77	3	-3
-6	37	3	2	-5	64	3	0	-9	70	3	-5	6	17	20	-5*	-8	55	3	1	8	76	3	2	-9	26	5	-2	2	24	5	5
-5	42	3	-1	-4	0	19	-5*	-8	21	12	-7*	7	38	3	-2	-7	14	20	1*	9	0	23	-9*	-8	21	10	3*	3	122	4	0
-4	132	4	-1	-3	54	3	-4	-7	59	3	-2	8	105	4	3	-6	125	4	-1	K,L=	12,		1	-7	30	7	0	4	2	19	-8*
-3	42	3	-5	-2	35	3	-2	-6	4	21	-8*	9	68	3	1	-5	85	3	-2	-9	127	4	2	-6	55	3	1	K,L=	13,		3
-2	174	5	-4	-1	159	5	2	-5	19	20	9*	K,L=	11,		3	-4	35	3	-3	-8	19	21	12*	-5	120	4	-1	-6	131	4	-2
-1	10	19	-8*	0	14	17	4*	-4	20	13	2*	-12	22	12	-10*	-3	66	3	1	-7	36	3	2	-4	13	20	-2*	-5	10	22	-11*
0	170	5	0	1	68	3	4	-3	164	5	2	-11	89	3	2	-2	38	3	-1	-6	0	21	-18*	-3	79	3	0	-4	40	3	2
1	51	2	0	2	14	20	9*	-2	9	22	-9*	-10	13	21	-3*	-1	72	3	0	-5	84	3	0	-2	35	3	0	-3	3	20	-3*
2	82	3	-2	3	150	5	-1	-1	14	21	0*	-9	77	3	0	0	54	3	-5	-4	69	3	-1	-1	74	3	1	-2	58	3	-1
3	54	2	2	4	15	20	-2*	0	18	21	4*	-8	58	3	-2	1	45	3	-1	-3	70	3	-3	0	14	18	-15*	-1	17	20	12*
4	83	3	0	5	36	3	-5	1	14	20	-12*	-7	46	3	-8	2	119	4	-1	-2	39	3	0	1	51	3	1	0	97	3	-3
5	15	19	0*	6	0	21	-2*	K,L=	10,		11	-6	137	4	-1	3	52	3	0	-1	114	4	-1	2	47	3	2	1	0	21	-2*
6	25	4	-9	7	24	10	0*	-10	31	6	1	-5	64	3	-2	4	17	21	-9*	0	29	4	-2	3	93	3	-1	2	49	3	-2
7	13	19	-7*	8	0	22	-17*	-9	10	19	-1*	-4	40	3	3	5	27	5	-3	1	115	4	-2	4	15	21	13*	3	0	22	-10*
8	170	5	1	K,L=	10,		7	-8	67	3	0	-3	18	19	7*	6	29	7	2	2	23	5	-1	K,L=	12,		6	K,L=	13,		4
9	16	19	-2*	-13	6	21	3*	-7	19	21	-5*	-2	51	3	-1	K,L=	11,		7	3	115	4	-4	-9	21	12	-3*	-6	4	19	-4*
10	12	21	4*	-12	79	3	-2	-6	58	3	-3	-1	168	5	-4	-11	20	13	8*	4	66	3	-3	-8	60	3	1	-5	127	4	-1
K,L=	10,		4	-11	30	4	5	-5	11	22	3*	0	77	3	-1	-10	64	3	-1	5	10	20	5*	-7	56	3	-3	-4	0	21	-7*
-13	48	3	-4	-10	83	3	-3	-4	94	3	1	1	11	19	4*	-9	39	3	-3	6	0	20	-8*	-6	85	3	1	-3	65	3	-1
-12	17	21	-3*	-9	10	14	8*	-3	18	22	14*	2	34	3	2	-8	59	3	0	7	15	21	-4*	-5	0	21	-18*	-2	9	21	4*
-11	121	4	4	-8	68	3	-1	-2	81	3	-1	3	9	20	-5*	-7	137	4	-1	8	23	11	-7*	-4	19	14	0*	-1	23	9	3*
-10	5	20	-8*	-7	18	20	17*	-1	7	21	-3*	4	103	3	-3	-6	24	9	-6*	K,L=	12,		2	-3	11	20	1*	0	1	15	-10*
-9	122	4	-1	-6	207	9	5	K,L=	11,		0	5	75	3	-4	-5	33	3	1	-9	34	4	3	-2	143	5	3	1	46	3	0

H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL	H	FOB	SG	DEL
2	17	20	9*																								
K,L=		13,	5																								
-5	5	21	-7*																								
-4	11	22	-11*																								
-3	0	19	-5*																								
-2	111	4	0																								
-1	18	19	2*																								
0	16	19	-9*																								

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