Journal of
Medicinal Chemistry
J. Med. Chem., 1996, 39(7), 1463-1471, DOI:10.1021/jm950267m

JM950267M M 1471-1

SUPPLEMENTARY MATERIAL

N^6-Cyclopentyl-8-(ethylamino)adenosine (3b): ^{1}H NMR (DMSO-d_6): δ 7.93 (s, 1H, H-2), 6.85 (t, J = 5.2 Hz, 1H, 8-NH, exchangeable with D_2O), 6.64 (d, J = 7.8 Hz, 1H, 6-NH, exchangeable with D_2O), 5.87 (m, 2H, H-1' and 5'-OH) which changed by addition of D_2O to (d, $J_{1',2'}$ = 7.4 Hz, 1H, H-1'), 5.21 (d, J = 6.4 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.14 (d, J = 3.6 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.64 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.3 Hz, 1H, H-2'), 4.58-4.46 (m, 1H, 6-N-C<u>H</u>, cyclopentyl), 4.10 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.3 Hz, $J_{3',4'}$ = 1.8 Hz, 1H, H-3'), 3.95 (m, 1H, H-4'), 3.62 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 3.41-3.31 (m, 2H, N-C<u>H</u>$_2$, ethyl), 1.95-1.88 (m, 2H, N-CH-C<u>H</u>H, cyclopentyl), 1.69-1.52 (m, 6H, N-CH-CH<u>H</u>-C<u>H</u>$_2$, cyclopentyl), 1.17 (t, J = 7.2 Hz, 3H, N-CH_2-C<u>H</u>$_3$, ethyl); ^{13}C NMR (DMSO-d_6): δ 151.4 (C-6 or C-4), 151.2 (C-6 or C-4), 149.2 (C-8), 149.1 (C-2), 117.0 (C-5), 86.7 (C-1'), 85.9 (C-4'), 71.1 (C-2'), 71.0 (C-3'), 61.8 (C-5'), 52.0 (N-<u>C</u>H, cyclopentyl), 37.4 (N-<u>C</u>H$_2$, ethyl), 32.9 and 32.8 (N-CH-<u>C</u>H$_2$, cyclopentyl), 23.7 (N-CH-CH_2-<u>C</u>H$_2$, cyclopentyl), 14.8 (N-CH_2-<u>C</u>H$_3$, ethyl);

N^6-Cyclopentyl-8-(*n*-propylamino)adenosine (3c): ^{1}H NMR (DMSO-d_6): δ 7.93 (s, 1H, H-2), 6.87 (t, J = 5.4 Hz, 1H, 8-NH, exchangeable with D_2O), 6.63 (d, J = 7.8 Hz, 1H, 6-NH, exchangeable with D_2O), 5.89 (d, $J_{1',2'}$ = 7.5 Hz, 1H, 1H, H-1'), 5.87 (t, J = 4.6 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.21 (d, J = 6.8 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.14 (d, J = 4.0 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.63 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.4 Hz, 1H, H-2'), 4.53-4.49 (m, 1H, 6-N-C<u>H</u>, cyclopentyl), 4.10 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.3 Hz, $J_{3',4'}$ = 1.5 Hz, 1H, H-3'), 3.95 (m, 1H, H-4'), 3.61 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 3.39-3.25 (m, 2H, N-C<u>H</u>$_2$, propyl), 1.95-1.89 (m, 2H, N-CH-C<u>H</u>H, cyclopentyl), 1.69-1.52 (m, 8H, N-CH_2-C<u>H</u>$_2$, propyl and N-CH-CH<u>H</u>-C<u>H</u>$_2$, cyclopentyl), 0.89 (t, J = 7.4 Hz, 3H, N-CH_2-CH_2-C<u>H</u>$_3$, propyl); ^{13}C NMR (DMSO-d_6): δ 151.4 (C-6 or C-4), 151.2 (C-6 or C-4), 149.1 (C-8), 149.0 (C-2), 117.0 (C-5), 86.6 (C-1'), 85.9 (C-4'), 71.1 (C-2'), 70.9 (C-3'), 61.8 (C-5'), 52.0 (N-<u>C</u>H, cyclopentyl), 44.3 (N-<u>C</u>H$_2$, propyl), 32.9 and 32.8 (N-CH-<u>C</u>H$_2$, cyclopentyl), 23.6 (N-CH-CH_2-<u>C</u>H$_2$, cyclopentyl), 22.2 (N-CH_2-<u>C</u>H$_2$, propyl), 11.6 (N-CH_2-CH_2-<u>C</u>H$_3$, propyl);

N^6-Cyclopentyl-8-(*n*-butylamino)adenosine (3d): ^{1}H NMR (DMSO-d_6): δ 7.93 (s, 1H, H-2), 6.82 (t, J = 5.4 Hz, 1H, 8-NH, exchangeable with D_2O), 6.60 (d, J = 7.8 Hz, 1H, 6-NH, exchangeable with D_2O), 5.89 (d, $J_{1',2'}$ = 7.5 Hz, 1H, 1H, H-1'), 5.85 (t, J = 4.6 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.20 (d, J = 6.8 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.13 (d, J = 4.1 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.62 (AB, which changed

m1471-2

by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.4 Hz, 1H, H-2'), 4.54-4.50 (m, 1H, 6-N-C<u>H</u>, cyclopentyl), 4.11 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.3 Hz, $J_{3',4'}$ = 1.7 Hz, 1H, H-3'), 3.96 (m, 1H, H-4'), 3.62 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 3.40-3.26 (m, 2H, N-C<u>H</u>$_2$, butyl), 1.96-1.88 (m, 2H, N-CH-C<u>H</u>H, cyclopentyl), 1.70-1.48 (m, 8H, N-CH$_2$-C<u>H</u>$_2$, butyl and N-CH-CH<u>H</u>-C<u>H</u>$_2$, cyclopentyl), 1.33 (m, 2H, N-CH$_2$-CH$_2$-C<u>H</u>$_2$, butyl), 0.89 (t, J = 7.3 Hz, 3H, N-CH$_2$-CH$_2$-CH$_2$-C<u>H</u>$_3$, butyl); ^{13}C NMR (DMSO-d_6): δ 151.3 (C-6 or C-4), 151.1 (C-6 or C-4), 149.1 (C-8), 148.8 (C-2), 117.0 (C-5), 86.5 (C-1'), 85.7 (C-4'), 70.9 (C-2'), 70.8 (C-3'), 61.6 (C-5'), 51.9 (N-<u>C</u>H, cyclopentyl), 42.0 (N-<u>C</u>H$_2$, butyl), 32.8 and 32.7 (N-CH-<u>C</u>H$_2$, cyclopentyl), 30.9 (N-CH$_2$-<u>C</u>H$_2$, butyl), 23.5 (N-CH-CH$_2$-<u>C</u>H$_2$, cyclopentyl), 19.7 (N-CH$_2$-CH$_2$-<u>C</u>H$_2$, butyl), 13.8 (N-CH$_2$-CH$_2$-CH$_2$-<u>C</u>H$_3$, butyl);

N^6-Cyclopentyl-8-(cyclopentylamino)adenosine (3e): ^{1}H NMR (DMSO-d_6): δ 7.94 (s, 1H, H-2), 6.70 (d, J = 7.0 Hz, 1H, 8-NH, exchangeable with D_2O), 6.64 (d, J = 7.8 Hz, 1H, 6-NH, exchangeable with D_2O), 5.91 (d, $J_{1',2'}$ = 7.5 Hz, 1H, 1H, H-1'), 5.87 (t, J = 4.6 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.21 (d, J = 6.1 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.18 (d, J = 5.4 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.59 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.5 Hz, 1H, H-2'), 4.58-4.52 (m, 1H, 6-N-C<u>H</u>, cyclopentyl), 4.22 (q, J = 6.9 Hz, 1H, 8-N-C<u>H</u>, cyclopentyl), 4.10 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.3 Hz, $J_{3',4'}$ = 1.8 Hz, 1H, H-3'), 3.95 (m, 1H, H-4'), 3.62 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 1.96-1.88 (m, 4H, N-CH-C<u>H</u>H, 2 x cyclopentyl), 1.71-1.45 (m, 12H, N-CH-CH<u>H</u>-C<u>H</u>$_2$, 2 x cyclopentyl); ^{13}C NMR (DMSO-d_6): δ 151.2 (C-6 or C-4), 151.1 (C-6 or C-4), 149.2 (C-8), 149.1 (C-2), 117.0 (C-5), 86.6 (C-1'), 86.0 (C-4'), 71.1 (C-2'), 71.0 (C-3'), 61.8 (C-5'), 54.3 and 52.1 (N-<u>C</u>H, 2 x cyclopentyl), 33.1, 33.0, 32.6 and 32.5 (N-CH-<u>C</u>H$_2$, 2 x cyclopentyl), 23.8 and 23.7 (N-CH-CH$_2$-<u>C</u>H$_2$, 2 x cyclopentyl);

8-Cyclopentylamino-N^6-(*n*-propyl)adenosine (9c): ^{1}H NMR (DMSO-d_6): δ 7.92 (s, 1H, H-2), 6.82 (t, J = 6.1 Hz, 1H, 6-NH, exchangeable with D_2O), 6.66 (d, J = 6.9 Hz, 1H, 8-NH, exchangeable with D_2O), 5.90 (d, $J_{1',2'}$ = 7.4 Hz, 1H, H-1'), 5.82 (t, J = 4.7 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.17 (d, J = 6.7 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.11 (d, J = 4.0 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.64 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.4 Hz, 1H, H-2'), 4.11 (m, 1H, 8-N-C<u>H</u>, cyclopentyl), 4.07 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.4 Hz, $J_{3',4'}$ = 1.9 Hz, 1H, H-3'), 3.95 (m, 1H, H-4'), 3.60 (m, which changed by addition of D_2O in d, J = 2.2 Hz, 2H, H-5'/H-5''), 3.46-3.38 (m, 2H, N-C<u>H</u>$_2$, propyl), 1.95-1.88 (m, 2H, N-CH-C<u>H</u>H, cyclopentyl), 1.67-1.46 (m, 8H, N-CH$_2$-C<u>H</u>$_2$, propyl and N-CH-CH<u>H</u>-C<u>H</u>$_2$, cyclopentyl), 0.86 (t, J = 7.4 Hz, 3H, N-CH$_2$-CH$_2$-C<u>H</u>$_3$, propyl); ^{13}C NMR (DMSO-d_6): δ 151.5 (C-

M 1471-3

6 or C-4), 150.7 (C-6 or C-4), 149.0 (C-8), 148.3 (C-2), 117.0 (C-5), 86.3 (C-1'), 86.0 (C-4'), 70.7 (C-2' and C-3'), 61.5 (C-5'), 53.9 (N-CH, cyclopentyl), 41.9 (N-CH_2, propyl), 32.2 and 32.1 (N-CH-CH_2, cyclopentyl), 23.3 and 23.2 (N-CH-CH_2-CH_2, cyclopentyl), 22.7 (N-CH_2-CH_2, propyl), 11.1 (N-CH_2-CH_2-CH_3, propyl);

8-Cyclopentylamino-N^6-(*n*-butyl)adenosine (9d): ^{1}H NMR (DMSO-d_6): δ 7.92 (s, 1H, H-2), 6.77 (t, J = 5.9 Hz, 1H, 6-NH, exchangeable with D_2O), 6.65 (d, J = 6.9 Hz, 1H, 8-NH, exchangeable with D_2O), 5.90 (d, $J_{1',2'}$ = 7.5 Hz, 1H, H-1'), 5.80 (t, J = 5.1 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.15 (d, J = 6.9 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.10 (d, J = 4.2 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.60 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.6 Hz, $J_{2',3'}$ = 5.5 Hz, 1H, H-2'), 4.21 (m, 1H, 8-N-CH, cyclopentyl), 4.11 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.4 Hz, $J_{3',4'}$ = 1.6 Hz, 1H, H-3'), 3.94 (m, 1H, H-4'), 3.62 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 3.59-3.40 (m, 2H, N-CH_2, butyl), 1.97-1.90 (m, 2H, N-CH-CHH, cyclopentyl), 1.73-1.45 (m, 8H, N-CH_2-CH_2, butyl and N-CH-CHH-CH_2, cyclopentyl), 1.31 (m, 2H, N-CH_2-CH_2-CH_2, butyl), 0.88 (t, J = 7.3 Hz, 3H, N-CH_2-CH_2-CH_2-CH_3, butyl); ^{13}C NMR (DMSO-d_6): δ 151.5 (C-6 or C-4), 150.7 (C-6 or C-4), 149.0 (C-8), 148.3 (C-2), 117.1 (C-5), 86.3 (C-1'), 85.5 (C-4'), 70.7 (C-2' and C-3'), 61.5 (C-5'), 53.9 (N-CH, cyclopentyl), 39.8 (N-CH_2, butyl), 32.2 and 32.1 (N-CH-CH_2, cyclopentyl), 31.7 (N-CH_2-CH_2, butyl), 23.2 (N-CH-CH_2-CH_2, cyclopentyl), 19.4 (N-CH_2-CH_2-CH_2, butyl), 13.6 (N-CH_2-CH_2-CH_2-CH_3, butyl);

8-Cyclopentylamino-N^6-ethyladenosine (9b): ^{1}H NMR (DMSO-d_6): δ 7.93 (s, 1H, H-2), 6.78 (t, J = 5.6 Hz, 1H, 6-NH, exchangeable with D_2O), 6.66 (d, J = 6.7 Hz, 1H, 8-NH, exchangeable with D_2O), 5.90 (d, $J_{1',2'}$ = 7.4 Hz, 1H, H-1'), 5.80 (t, J = 4.5 Hz, 1H, 5'-OH, exchangeable with D_2O), 5.15 (d, J = 6.9 Hz, 1H, 2'-OH, exchangeable with D_2O), 5.10 (d, J = 4.0 Hz, 1H, 3'-OH, exchangeable with D_2O), 4.59 (AB, which changed by addition of D_2O in dd, $J_{1',2'}$ = 7.5 Hz, $J_{2',3'}$ = 5.5 Hz, 1H, H-2'), 4.21 (m, 1H, 8-N-CH, cyclopentyl), 4.10 (m, which changed by addition of D_2O in dd, $J_{2',3'}$ = 5.3 Hz, $J_{3',4'}$ = 1.4 Hz, 1H, H-3'), 3.95 (m, 1H, H-4'), 3.62 (m, which changed by addition of D_2O in bs, 2H, H-5'/H-5''), 3.49 (m, 2H, N-CH_2, ethyl), 1.95-1.87 (m, 2H, N-CH-CHH, cyclopentyl), 1.74-1.52 (m, 6H, N-CH-CHH-CH_2, cyclopentyl), 1.14 (t, J = 7.1 Hz, 3H, N-CH_2-CH_3, ethyl); ^{13}C NMR (DMSO-d_6): δ 151.4 (C-6 or C-4), 151.2 (C-6 or C-4), 149.0 (C-8), 148.2 (C-2), 117.1 (C-5), 86.7 (C-1'), 85.9 (C-4'), 71.0 (C-2' and C-3'), 61.7 (C-5'), 53.8 (N-CH, cyclopentyl), 37.3 (N-CH_2, ethyl), 32.4 and 32.2 (N-CH-CH_2, cyclopentyl), 23.4 and 23.3 (N-CH-CH_2-CH_2, cyclopentyl), 14.7 (N-CH_2-CH_3, ethyl);

m1471-4

Crystal data of **8-cyclopentylamino-N^6-ethyladenosine (9b)**.

s962a C17 H26 N6 O4 * C4 H10 O1

==========
S U P P L E M E N T A R Y M A T E R I A L
==========

B E L O N G I N G T O T H E P A P E R

N^6, C8-disubstituded adenosine derivatives as partial agonists for adenosine A$_1$ receptors

b y

Harlof Roelen, Nora Veldman, Anthony L. Spek, Jacobien von Frijtag Drabbe K\"unzel, Ron A.A. Math\^ot and Ad P. IJzerman

C o n t e n t s
==========

Table S1 - Crystal Data and Details of the Structure Determination for: s962a C17 H26 N6 O4 * C4 H10 O1

Crystal Data

Empirical Formula	C17 H26 N6 O4 * C4 H10 O1		
Formula Weight	452.55		
Crystal System	Orthorhombic		
Space group	P212121 (No. 19)		
a, b, c [Angstrom]	11.039(3)	8.708(2)	24.815(12)
alpha, beta, gamma [deg]	90	90	90
V [Ang**3]	2385.4(14)		
Z	4		
D(calc) [g/cm**3]	1.260		
F(000) [Electrons]	976		
Mu(MoKa) [/cm]	0.9		
Crystal Size [mm]	0.03 x 0.50 x 0.63		

Data Collection

Temperature (K)	295	
Radiation [Angstrom]	MoKa (with monochromator)	0.71073
Theta Min-Max [Deg]	1.6, 24.2	
Scan type	Omega/2Theta	
Scan, [Deg]	1.69 + 0.35 Tan(Theta)	
Hor. and vert. aperture [mm]	4.53	4.00
Reference Reflection(s)	-2, 0, 5; -1, -2, -2; 3 0 -2	
Dataset	-12: 0 ; -10: 0 ; -27: 27	
Tot., Uniq. Data	3913, 2874	

R(int) = 0.0815 R(sigma) = 0.1992 Friedel opposites not merged

Refinement

wR2 = 0.2455 before cycle 4 for 3424 data and 2 / 298 parameters

R1 = 0.0974 for 1450 Fo > 4.sigma(Fo) and 0.2247 for all 3426 data

GooF = S = 0.947; Restrained GooF = 0.947 for 1 restraints

Weight 1/[sigma^2(Fo^2)+(0.1000*[(Max(Fo^2,0)+2*Fc^2)/3])^2]

Max. and Av. Shift/Error 0.004, 0.001

Min. and Max. resd. dens. [e/Ang**3] -0.25, 0.23

Table S2 - Final Coordinates and Equivalent Isotropic Thermal Parameters of the non-Hydrogen atoms
for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	x	y	z	U(eq) [Ang**2]
O(1)	0.1215(6)	0.5856(6)	0.4866(3)	0.044(3)
O(12)	0.0738(6)	0.7682(8)	0.3613(3)	0.056(3)
O(13)	0.1332(7)	0.9294(6)	0.4531(3)	0.055(3)
O(15)	-0.1367(7)	0.6161(8)	0.5017(3)	0.059(3)
N(1)	0.4140(9)	0.2168(11)	0.3335(4)	0.073(4)
N(3)	0.3473(9)	0.4616(9)	0.3705(4)	0.056(4)
N(6)	0.2978(9)	-0.0011(10)	0.3371(4)	0.071(4)
N(7)	0.1075(8)	0.1959(8)	0.3950(3)	0.042(3)
N(8)	-0.0430(8)	0.3432(8)	0.4368(3)	0.044(3)
N(9)	0.1441(7)	0.4466(7)	0.4082(3)	0.036(3)
C(2)	0.4262(11)	0.3683(13)	0.3464(5)	0.071(5)
C(4)	0.2479(9)	0.3861(10)	0.3846(4)	0.038(4)
C(5)	0.2205(10)	0.2320(10)	0.3744(4)	0.044(4)
C(6)	0.3126(12)	0.1537(12)	0.3481(5)	0.058(4)
C(8)	0.0675(10)	0.3261(9)	0.4137(4)	0.037(3)
C(11)	0.1404(10)	0.6004(9)	0.4306(4)	0.042(4)
C(12)	0.0418(8)	0.7059(9)	0.4107(4)	0.034(3)
C(13)	0.0347(9)	0.8217(8)	0.4584(4)	0.038(3)
C(14)	0.0588(10)	0.7211(9)	0.5063(5)	0.053(4)
C(15)	-0.0502(9)	0.6750(12)	0.5372(5)	0.055(4)
C(61)	0.3920(12)	-0.0924(15)	0.3086(7)	0.105(7)
C(62)	0.3441(17)	-0.207(2)	0.2749(8)	0.176(11)
C(81)	-0.1200(10)	0.2106(10)	0.4463(5)	0.055(4)
C(82)	-0.1727(11)	0.1494(15)	0.3945(5)	0.078(5)
C(83)	-0.2866(15)	0.209(3)	0.3891(7)	0.174(12)
C(84)	-0.3248(14)	0.291(2)	0.4382(7)	0.121(8)
C(85)	-0.2311(11)	0.2557(14)	0.4782(5)	0.071(5)

Table S2 - Final Coordinates and Equivalent Isotropic Thermal Parameters of the non-Hydrogen atoms (continued) for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	x	y	z	U(eq) [Ang**2]
O(33)	0.1314(9)	0.3346(10)	0.2015(3)	0.085(4)
C(31)	0.2793(14)	0.199(2)	0.1514(7)	0.121(8)
C(32)	0.2522(16)	0.295(2)	0.1984(8)	0.132(10)
C(34)	0.108(2)	0.436(2)	0.2462(6)	0.133(9)
C(35)	-0.011(2)	0.457(3)	0.2562(10)	0.168(11)

U(eq) = 1/3 of the trace of the orthogonalized U

Table S3 - Hydrogen Atom Positions and Isotropic Thermal Parameters for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	x	y	z	U(iso) [Ang**2]
H(2)	0.4999(11)	0.4128(13)	0.3371(5)	0.085
H(6)	0.2365	-0.0655	0.3435	0.107
H(8)	-0.043(10)	0.412(8)	0.463(3)	0.066
H(11)	0.2190(10)	0.6498(9)	0.4245(4)	0.051
H(12)	0.014(2)	0.773(13)	0.3418(17)	0.084
H(12A)	-0.0347(8)	0.6494(9)	0.4074(4)	0.041
H(13)	0.122(5)	0.983(9)	0.427(3)	0.083
H(13A)	-0.0443(9)	0.8728(8)	0.4605(4)	0.046
H(14)	0.1134(10)	0.7762(9)	0.5307(5)	0.064
H(15)	-0.2034(19)	0.617(13)	0.5162(17)	0.088
H(15A)	-0.0288(9)	0.5976(12)	0.5637(5)	0.066
H(15B)	-0.0832(9)	0.7631(12)	0.5561(5)	0.066
H(61A)	0.4414(12)	-0.0235(15)	0.2871(7)	0.126
H(61B)	0.4443(12)	-0.1404(15)	0.3351(7)	0.126
H(62A)	0.395(10)	-0.296(8)	0.276(6)	0.2640
H(62B)	0.340(16)	-0.169(8)	0.2386(16)	0.2640
H(62C)	0.264(7)	-0.234(16)	0.287(5)	0.2640
H(81)	-0.0749(10)	0.1299(10)	0.4651(5)	0.065
H(82A)	-0.1226(11)	0.1795(15)	0.3642(5)	0.093
H(82B)	-0.1765(11)	0.0381(15)	0.3956(5)	0.093
H(83A)	-0.3434(15)	0.127(3)	0.3816(7)	0.2110
H(83B)	-0.2879(15)	0.280(3)	0.3589(7)	0.2110
H(84A)	-0.3294(14)	0.401(2)	0.4318(7)	0.1450
H(84B)	-0.4033(14)	0.255(2)	0.4502(7)	0.1450
H(85A)	-0.2568(11)	0.1720(14)	0.5013(5)	0.085
H(85B)	-0.2145(11)	0.3449(14)	0.5004(5)	0.085

Table S3 - Hydrogen Atom Positions and Isotropic Thermal Parameters (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	x	y	z	U(iso) [Ang**2]
H(31A)	0.362(4)	0.163(11)	0.154(3)	0.1820
H(31B)	0.269(10)	0.258(4)	0.1191(7)	0.1820
H(31C)	0.225(7)	0.112(7)	0.151(3)	0.1820
H(32A)	0.2751(16)	0.240(2)	0.2309(8)	0.158
H(32B)	0.3006(16)	0.388(2)	0.1965(8)	0.158
H(34A)	0.146(2)	0.395(2)	0.2782(6)	0.16
H(34B)	0.144(2)	0.535(2)	0.2386(6)	0.16
H(35A)	-0.021(2)	0.500(18)	0.291(3)	0.255
H(35B)	-0.052(3)	0.359(4)	0.255(7)	0.255
H(35C)	-0.045(4)	0.525(15)	0.230(4)	0.255

The Temperature Factor has the Form of Exp(-T) Where
T = 8*(Pi**2)*U*(Sin(Theta)/Lambda)**2 for Isotropic Atoms

Table S4 - (An)isotropic Thermal Parameters
for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	U(1,1) or U	U(2,2)	U(3,3)	U(2,3)	U(1,3)	U(1,2)
O(1)	0.053(5)	0.034(3)	0.046(5)	0.000(3)	-0.012(4)	0.006(3)
O(12)	0.065(5)	0.050(4)	0.053(5)	0.017(4)	0.002(4)	0.004(4)
O(13)	0.049(4)	0.037(3)	0.080(6)	0.016(4)	-0.011(5)	-0.006(4)
O(15)	0.047(5)	0.066(4)	0.063(5)	-0.010(4)	0.008(5)	-0.009(4)
N(1)	0.056(7)	0.063(6)	0.101(9)	-0.015(6)	0.019(6)	0.008(5)
N(3)	0.049(6)	0.063(6)	0.055(7)	-0.018(5)	0.017(5)	0.002(5)
N(6)	0.050(6)	0.055(5)	0.108(9)	-0.029(6)	0.001(6)	0.003(5)
N(7)	0.046(6)	0.034(4)	0.046(6)	-0.003(4)	0.004(5)	0.004(4)
N(8)	0.051(6)	0.030(4)	0.051(6)	-0.012(4)	0.005(5)	-0.008(4)
N(9)	0.028(5)	0.031(4)	0.050(6)	0.000(4)	-0.004(4)	0.001(4)
C(2)	0.057(8)	0.064(7)	0.092(10)	-0.010(7)	0.025(8)	-0.027(7)
C(4)	0.029(6)	0.048(6)	0.038(7)	0.011(5)	0.010(5)	0.009(5)
C(5)	0.056(8)	0.033(5)	0.042(7)	-0.002(4)	-0.010(6)	0.005(5)
C(6)	0.074(9)	0.059(7)	0.041(7)	-0.015(6)	0.001(7)	0.001(7)
C(8)	0.051(7)	0.036(5)	0.023(5)	0.002(4)	0.000(5)	0.010(5)
C(11)	0.045(7)	0.039(5)	0.043(7)	-0.002(5)	0.001(6)	-0.004(5)
C(12)	0.027(6)	0.032(4)	0.043(7)	-0.002(4)	-0.020(5)	-0.004(4)
C(13)	0.044(6)	0.021(4)	0.049(6)	-0.007(4)	-0.012(6)	-0.003(4)
C(14)	0.065(8)	0.031(5)	0.063(8)	-0.005(5)	-0.004(7)	0.007(5)
C(15)	0.035(6)	0.060(6)	0.069(8)	-0.009(6)	0.014(7)	0.003(6)
C(61)	0.065(10)	0.080(9)	0.169(17)	-0.059(10)	0.034(11)	0.004(8)
C(62)	0.158(19)	0.19(2)	0.18(2)	-0.090(17)	0.088(17)	0.000(17)
C(81)	0.046(7)	0.047(6)	0.071(9)	-0.001(5)	-0.004(7)	-0.007(5)
C(82)	0.059(9)	0.088(8)	0.086(11)	-0.008(8)	0.021(8)	-0.016(7)
C(83)	0.084(13)	0.35(3)	0.089(15)	-0.071(18)	-0.017(12)	0.075(18)
C(84)	0.092(13)	0.153(15)	0.118(16)	0.006(13)	0.040(12)	0.021(12)
C(85)	0.062(9)	0.065(7)	0.087(11)	0.021(7)	0.004(8)	-0.029(7)

M1471-8

Table S4 - (An)isotropic Thermal Parameters (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

Atom	U(1,1) or U	U(2,2)	U(3,3)	U(2,3)	U(1,3)	U(1,2)
O(33)	0.091(7)	0.099(6)	0.065(7)	-0.008(5)	-0.012(6)	-0.002(6)
C(31)	0.097(13)	0.156(15)	0.111(15)	-0.018(13)	0.027(12)	0.031(11)
C(32)	0.097(14)	0.142(16)	0.156(19)	-0.018(14)	-0.039(13)	0.001(13)
C(34)	0.19(2)	0.153(16)	0.055(11)	-0.010(11)	-0.003(14)	-0.024(17)
C(35)	0.151(19)	0.164(19)	0.19(2)	-0.094(17)	0.02(2)	-0.020(17)

==========

The Temperature Factor has the Form of Exp(-T) Where
T = 8*(Pi**2)*U*(Sin(Theta)/Lambda)**2 for Isotropic Atoms
T = 2*(Pi**2)*Sumij(h(i)*h(j)*U(i,j)*Astar(i)*Astar(j)), for Anisotropic Atoms. Astar(i) are Reciprocal Axial Lengths and h(i) are the Reflection Indices.

Table S5 - Bond Distances (Angstrom)
for: s962a C17 H26 N6 O4 * C4 H10 O1

O(1)	-C(11)	1.411(12)	C(84)	-C(85)	1.47(2)
O(1)	-C(14)	1.453(11)	O(12)	-H(12)	0.82(3)
O(12)	-C(12)	1.386(12)	O(13)	-H(13)	0.81(8)
O(13)	-C(13)	1.442(11)	O(15)	-H(15)	0.82(3)
O(15)	-C(15)	1.397(13)	N(6)	-H(6)	0.893(9)
N(1)	-C(2)	1.364(15)	N(8)	-H(8)	0.88(7)
N(1)	-C(6)	1.299(16)	C(2)	-H(2)	0.930(17)
N(3)	-C(2)	1.333(15)	C(11)	-H(11)	0.980(15)
N(3)	-C(4)	1.326(14)	C(12)	-H(12A)	0.981(12)
N(6)	-C(6)	1.385(14)	C(13)	-H(13A)	0.980(13)
N(6)	-C(61)	1.488(17)	C(14)	-H(14)	0.980(15)
N(7)	-C(5)	1.384(14)	C(15)	-H(15A)	0.971(16)
N(7)	-C(8)	1.302(11)	C(15)	-H(15B)	0.970(15)
N(8)	-C(8)	1.356(14)	C(61)	-H(61A)	0.97(2)
N(8)	-C(81)	1.453(12)	C(61)	-H(61B)	0.97(2)
N(9)	-C(4)	1.390(12)	C(62)	-H(62A)	0.96(9)
N(9)	-C(8)	1.355(11)	C(62)	-H(62B)	0.96(5)
N(9)	-C(11)	1.451(10)	C(62)	-H(62C)	0.96(9)
C(4)	-C(5)	1.399(13)	C(81)	-H(81)	0.979(15)
C(5)	-C(6)	1.387(16)	C(82)	-H(82A)	0.969(18)
C(11)	-C(12)	1.508(13)	C(82)	-H(82B)	0.970(18)
C(12)	-C(13)	1.557(13)	C(83)	-H(83A)	0.97(3)
C(13)	-C(14)	1.500(14)	C(83)	-H(83B)	0.97(3)
C(14)	-C(15)	1.482(16)	C(84)	-H(84A)	0.97(2)
C(61)	-C(62)	1.41(2)	C(84)	-H(84B)	0.97(2)
C(81)	-C(82)	1.508(17)	C(85)	-H(85A)	0.970(17)
C(81)	-C(85)	1.512(17)	C(85)	-H(85B)	0.970(17)
C(82)	-C(83)	1.37(2)	O(33)	-C(32)	1.38(2)
C(83)	-C(84)	1.47(3)	O(33)	-C(34)	1.441(18)

MN 1471-4

Table S5 - Bond Distances (Angstrom) (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

C(31)	-C(32)	1.47(3)	C(32)	-H(32B)	0.97(2)
C(34)	-C(35)	1.35(3)	C(34)	-H(34A)	0.97(2)
C(31)	-H(31A)	0.97(5)	C(34)	-H(34B)	0.97(3)
C(31)	-H(31B)	0.96(3)	C(35)	-H(35A)	0.95(10)
C(31)	-H(31C)	0.97(7)	C(35)	-H(35B)	0.97(4)
C(32)	-H(32A)	0.97(3)	C(35)	-H(35C)	0.96(11)

Table S6 - Bond Angles (Degrees)
for: s962a C17 H26 N6 O4 * C4 H10 O1

C(11)	-O(1)	-C(14)	109.1(7)	O(13)	-C(13)	-C(14)	108.6(8)
C(2)	-N(1)	-C(6)	115.4(10)	C(12)	-C(13)	-C(14)	102.4(6)
C(2)	-N(3)	-C(4)	110.9(9)	O(1)	-C(14)	-C(13)	107.0(9)
C(6)	-N(6)	-C(61)	122.1(10)	O(1)	-C(14)	-C(15)	109.9(7)
C(5)	-N(7)	-C(8)	103.9(8)	C(13)	-C(14)	-C(15)	115.1(9)
C(8)	-N(8)	-C(81)	120.5(7)	O(15)	-C(15)	-C(14)	109.2(10)
C(4)	-N(9)	-C(8)	105.3(7)	N(6)	-C(61)	-C(62)	113.5(12)
C(4)	-N(9)	-C(11)	122.3(8)	N(8)	-C(81)	-C(82)	111.6(9)
C(8)	-N(9)	-C(11)	131.2(8)	N(8)	-C(81)	-C(85)	110.7(8)
N(1)	-C(2)	-N(3)	129.1(11)	C(82)	-C(81)	-C(85)	103.0(9)
N(3)	-C(4)	-N(9)	127.2(8)	C(81)	-C(82)	-C(83)	107.7(12)
N(3)	-C(4)	-C(5)	127.4(9)	C(82)	-C(83)	-C(84)	111.5(14)
N(9)	-C(4)	-C(5)	105.2(8)	C(83)	-C(84)	-C(85)	104.8(13)
N(7)	-C(5)	-C(4)	110.2(8)	C(81)	-C(85)	-C(84)	105.8(11)
N(7)	-C(5)	-C(6)	136.3(9)	C(12)	-O(12)	-H(12)	110(4)
C(4)	-C(5)	-C(6)	113.5(10)	C(13)	-O(13)	-H(13)	109(4)
N(1)	-C(6)	-N(6)	117.3(11)	C(15)	-O(15)	-H(15)	109(4)
N(1)	-C(6)	-C(5)	123.7(10)	C(6)	-N(6)	-H(6)	131.7(11)
N(6)	-C(6)	-C(5)	119.0(11)	C(61)	-N(6)	-H(6)	106.2(9)
N(7)	-C(8)	-N(8)	123.5(8)	C(8)	-N(8)	-H(8)	113(7)
N(7)	-C(8)	-N(9)	115.3(9)	C(81)	-N(8)	-H(8)	115(6)
N(8)	-C(8)	-N(9)	121.3(7)	N(1)	-C(2)	-H(2)	115.5(13)
O(1)	-C(11)	-N(9)	107.3(7)	N(3)	-C(2)	-H(2)	115.4(13)
O(1)	-C(11)	-C(12)	105.8(8)	O(1)	-C(11)	-H(11)	108.8(10)
N(9)	-C(11)	-C(12)	117.2(8)	N(9)	-C(11)	-H(11)	108.7(10)
O(12)	-C(12)	-C(11)	110.1(8)	C(12)	-C(11)	-H(11)	108.7(9)
O(12)	-C(12)	-C(13)	115.6(7)	O(12)	-C(12)	-H(12A)	110.0(10)
C(11)	-C(12)	-C(13)	100.5(7)	C(11)	-C(12)	-H(12A)	110.1(9)
O(13)	-C(13)	-C(12)	108.3(8)	C(13)	-C(12)	-H(12A)	110.2(10)

M1471-12

Table S6 - Bond Angles (Degrees) (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

O(13)	-C(13)	-H(13A)	112.4(8)	H(82A)	-C(82)	-H(82B)	108.4(16)
C(12)	-C(13)	-H(13A)	112.3(10)	C(82)	-C(83)	-H(83A)	110(3)
C(14)	-C(13)	-H(13A)	112.4(11)	C(82)	-C(83)	-H(83B)	109.3(18)
O(1)	-C(14)	-H(14)	108.2(11)	C(84)	-C(83)	-H(83A)	109.3(18)
C(13)	-C(14)	-H(14)	108.2(10)	C(84)	-C(83)	-H(83B)	109(3)
C(15)	-C(14)	-H(14)	108.2(13)	H(83A)	-C(83)	-H(83B)	108(2)
O(15)	-C(15)	-H(15A)	109.8(11)	C(83)	-C(84)	-H(84A)	111(2)
O(15)	-C(15)	-H(15B)	109.8(11)	C(83)	-C(84)	-H(84B)	110.7(19)
C(14)	-C(15)	-H(15A)	109.9(11)	C(85)	-C(84)	-H(84A)	110.7(17)
C(14)	-C(15)	-H(15B)	109.9(11)	C(85)	-C(84)	-H(84B)	110.8(18)
H(15A)	-C(15)	-H(15B)	108.2(15)	H(84A)	-C(84)	-H(84B)	109(2)
N(6)	-C(61)	-H(61A)	108.9(14)	C(81)	-C(85)	-H(85A)	110.6(13)
N(6)	-C(61)	-H(61B)	108.9(17)	C(81)	-C(85)	-H(85B)	110.6(13)
C(62)	-C(61)	-H(61A)	108.9(19)	C(84)	-C(85)	-H(85A)	110.6(14)
C(62)	-C(61)	-H(61B)	108.8(15)	C(84)	-C(85)	-H(85B)	110.5(14)
H(61A)	-C(61)	-H(61B)	107.7(17)	H(85A)	-C(85)	-H(85B)	108.8(16)
C(61)	-C(62)	-H(62A)	110(7)	C(32)	-O(33)	-C(34)	111.7(13)
C(61)	-C(62)	-H(62B)	109(6)	O(33)	-C(32)	-C(31)	112.6(14)
C(61)	-C(62)	-H(62C)	109(8)	O(33)	-C(34)	-C(35)	113.5(17)
H(62A)	-C(62)	-H(62B)	109(12)	C(32)	-C(31)	-H(31A)	109(5)
H(62A)	-C(62)	-H(62C)	109(10)	C(32)	-C(31)	-H(31B)	110(3)
H(62B)	-C(62)	-H(62C)	109(13)	C(32)	-C(31)	-H(31C)	109(5)
N(8)	-C(81)	-H(81)	110.5(11)	H(31A)	-C(31)	-H(31B)	110(8)
C(82)	-C(81)	-H(81)	110.4(11)	H(31A)	-C(31)	-H(31C)	109(7)
C(85)	-C(81)	-H(81)	110.4(13)	H(31B)	-C(31)	-H(31C)	110(7)
C(81)	-C(82)	-H(82A)	110.2(13)	O(33)	-C(32)	-H(32A)	109.2(19)
C(81)	-C(82)	-H(82B)	110.2(13)	O(33)	-C(32)	-H(32B)	109.0(18)
C(83)	-C(82)	-H(82A)	110.2(15)	C(31)	-C(32)	-H(32A)	109.0(19)
C(83)	-C(82)	-H(82B)	110.0(16)	C(31)	-C(32)	-H(32B)	109(2)

Table S6 - Bond Angles (Degrees) (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

H(32A)	-C(32)	-H(32B)	108(2)	C(34)	-C(35)	-H(35A)	110(3)
O(33)	-C(34)	-H(34A)	109.2(19)	C(34)	-C(35)	-H(35B)	109(4)
O(33)	-C(34)	-H(34B)	108.8(17)	C(34)	-C(35)	-H(35C)	110(4)
C(35)	-C(34)	-H(34A)	109(2)	H(35A)	-C(35)	-H(35B)	109(13)
C(35)	-C(34)	-H(34B)	108(2)	H(35A)	-C(35)	-H(35C)	109(11)
H(34A)	-C(34)	-H(34B)	108(2)	H(35B)	-C(35)	-H(35C)	110(10)

Table S7 - Torsion Angles (Degrees)
for: s962a C17 H26 N6 O4 * C4 H10 O1

C(14)	-O(1)	-C(11)	-C(12)	-25.9(9)
C(11)	-O(1)	-C(14)	-C(15)	127.6(9)
C(11)	-O(1)	-C(14)	-C(13)	2.0(10)
C(14)	-O(1)	-C(11)	-N(9)	-151.8(8)
C(2)	-N(1)	-C(6)	-N(6)	-178.3(10)
C(2)	-N(1)	-C(6)	-C(5)	0.8(17)
C(6)	-N(1)	-C(2)	-N(3)	-2.1(19)
C(4)	-N(3)	-C(2)	-N(1)	3.2(18)
C(2)	-N(3)	-C(4)	-N(9)	-176.7(10)
C(2)	-N(3)	-C(4)	-C(5)	-3.2(16)
C(61)	-N(6)	-C(6)	-C(5)	179.4(11)
C(6)	-N(6)	-C(61)	-C(62)	-145.6(14)
C(61)	-N(6)	-C(6)	-N(1)	-1.4(17)
C(8)	-N(7)	-C(5)	-C(6)	-178.8(13)
C(5)	-N(7)	-C(8)	-N(8)	178.6(9)
C(5)	-N(7)	-C(8)	-N(9)	-0.8(11)
C(8)	-N(7)	-C(5)	-C(4)	3.5(11)
C(81)	-N(8)	-C(8)	-N(7)	5.5(15)
C(81)	-N(8)	-C(8)	-N(9)	-175.0(9)
C(8)	-N(8)	-C(81)	-C(82)	-72.6(12)
C(8)	-N(8)	-C(81)	-C(85)	173.3(9)
C(8)	-N(9)	-C(4)	-C(5)	4.0(10)
C(11)	-N(9)	-C(4)	-N(3)	-12.6(15)
C(8)	-N(9)	-C(4)	-N(3)	178.6(10)
C(11)	-N(9)	-C(8)	-N(8)	11.1(16)
C(4)	-N(9)	-C(11)	-O(1)	-115.2(9)
C(4)	-N(9)	-C(11)	-C(12)	126.2(10)
C(8)	-N(9)	-C(11)	-O(1)	50.4(13)
C(8)	-N(9)	-C(11)	-C(12)	-68.3(13)

Table S7 - Torsion Angles (Degrees) (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

C(11)	-N(9)	-C(4)	-C(5)	172.7(8)
C(4)	-N(9)	-C(8)	-N(8)	178.5(9)
C(11)	-N(9)	-C(8)	-N(7)	-169.4(9)
C(4)	-N(9)	-C(8)	-N(7)	-2.1(11)
N(3)	-C(4)	-C(5)	-N(7)	-179.4(10)
N(3)	-C(4)	-C(5)	-C(6)	2.3(16)
N(9)	-C(4)	-C(5)	-C(6)	177.0(9)
N(9)	-C(4)	-C(5)	-N(7)	-4.7(11)
N(7)	-C(5)	-C(6)	-N(6)	0(2)
C(4)	-C(5)	-C(6)	-N(1)	-0.9(17)
N(7)	-C(5)	-C(6)	-N(1)	-178.6(11)
C(4)	-C(5)	-C(6)	-N(6)	178.2(10)
O(1)	-C(11)	-C(12)	-C(13)	37.9(8)
O(1)	-C(11)	-C(12)	-O(12)	160.3(7)
N(9)	-C(11)	-C(12)	-O(12)	-80.2(10)
N(9)	-C(11)	-C(12)	-C(13)	157.4(8)
O(12)	-C(12)	-C(13)	-O(13)	-39.3(10)
C(11)	-C(12)	-C(13)	-C(14)	-35.4(9)
O(12)	-C(12)	-C(13)	-C(14)	-153.9(8)
C(11)	-C(12)	-C(13)	-O(13)	79.2(8)
O(13)	-C(13)	-C(14)	-O(1)	-92.9(8)
C(12)	-C(13)	-C(14)	-C(15)	-100.9(9)
O(13)	-C(13)	-C(14)	-C(15)	144.7(8)
C(12)	-C(13)	-C(14)	-O(1)	21.5(10)
O(1)	-C(14)	-C(15)	-O(15)	-70.5(11)
C(13)	-C(14)	-C(15)	-O(15)	50.4(11)
N(8)	-C(81)	-C(82)	-C(83)	-97.0(14)
C(85)	-C(81)	-C(82)	-C(83)	21.7(15)
N(8)	-C(81)	-C(85)	-C(84)	92.6(12)

Table S7 - Torsion Angles (Degrees) (continued)
for: s962a C17 H26 N6 O4 * C4 H10 O1

C(82)	-C(81)	-C(85)	-C(84)	-26.9(12)
C(81)	-C(82)	-C(83)	-C(84)	-8(2)
C(82)	-C(83)	-C(84)	-C(85)	-9(2)
C(83)	-C(84)	-C(85)	-C(81)	22.3(16)
C(34)	-O(33)	-C(32)	-C(31)	-176.7(13)
C(32)	-O(33)	-C(34)	-C(35)	-169.5(17)

M1471-13

L.I.S.T.I.N.G O.F

O.B.S.E.R.V.E.D A.N.D C.A.L.C.U.L.A.T.E.D

S.T.R.U.C.T.U.R.E. F.A.C.T.O.R.S

F.O.R

S962A MOKA 60KV150MA 22C MON 260993

B E L O N G I N G TO T H E P A P E R

N^6, C8-disubstituded adenosine derivatives as partial agonists for adenosine A$_1$ receptors

b y

Harlof Roelen, Nora Veldman, Anthony L. Spek,
Jacobien von Frijtag Drabbe K\"unzel,
Ron A.A. Math\^ot and Ad P. IJzerman

== H,	0,	0 ==	6	155	162	17	-6	102	92	31	8	295	304	14
2	328	313 8	7	64	123	21	-5	67	14	37	9	136	86	40
4	904	948 8	8	55	89	28	-4	293	315	10	10	92	0	43
6	253	290 14	9	45	64	37	-3	299	299	9	11	113	142	23
8	148	137 32	10	11	0	43	-2	1071	966	5	== H,	4,	1	==
10	253	280 19	== H,	6,	0	==	-1	594	654	5	-10	70	76	41
12	140	148 32	0	83	69	31	0	190	191	6	-9	78	103	24
== H,	1,	0 ==	1	75	104	19	1	594	662	5	-8	90	117	23
1	204	189 10	2	145	168	14	2	1071	1014	5	-7	73	70	36
2	299	254 9	3	68	91	23	3	299	280	10	-6	159	171	16
3	96	73 30	4	230	241	11	4	292	271	11	-5	159	137	17
4	541	544 8	5	110	102	25	5	67	79	33	-4	250	275	10
5	311	282 12	6	68	49	35	6	102	125	23	-3	192	186	11
6	321	323 12	7	77	79	32	7	245	245	16	-2	235	220	10
7	131	127 27	8	222	203	16	8	51	0	39	-1	273	270	9
8	56	0 39	9	5	55	36	9	35	78	44	0	382	376	5
9	107	104 42	== H,	7,	0	==	10	126	97	45	1	273	261	9
10	21	0 42	1	7	67	32	11	91	146	27	2	235	227	10
11	146	136 32	2	124	150	15	12	99	91	43	3	192	188	13
12	10	73 44	3	19	50	32	== H,	2,	1	==	4	250	248	11
== H,	2,	0 ==	4	76	105	21	-11	87	86	42	5	159	116	22
0	1624	1610 5	5	2	0	42	-10	121	120	33	6	159	150	19
1	236	247 9	6	88	0	45	-9	81	128	26	7	73	0	40
2	89	159 13	7	129	96	26	-8	109	110	32	8	90	94	31
3	429	389 8	8	63	63	34	-7	94	126	24	9	78	99	27
4	448	401 8	== H,	8,	0	==	-6	417	399	11	10	70	71	41
5	226	212 14	0	117	114	19	-5	67	48	34	== H,	5,	1	==
6	538	546 9	1	212	224	12	-4	142	118	21	-10	52	105	25
7	106	109 30	2	160	148	17	-3	109	129	17	-9	149	120	26
8	229	233 16	3	49	29	34	-2	308	306	8	-8	100	114	24
9	26	102 35	4	119	113	21	-1	440	442	6	-7	193	179	16
10	21	77 42	5	18	58	33	0	870	913	4	-6	148	166	14
11	10	0 43	6	50	75	24	1	440	467	6	-5	153	170	15
== H,	3,	0 ==	7	29	0	45	2	308	315	8	-4	61	69	29
1	84	100 18	== H,	9,	0	==	3	109	109	20	-3	345	335	9
2	2	49 30	1	34	0	42	4	142	139	17	-2	192	208	11
3	224	245 10	2	20	0	43	5	67	60	35	-1	151	139	13
4	419	379 9	3	48	69	28	6	417	418	10	0	108	80	24
5	60	76 28	4	24	0	44	7	94	24	39	1	151	144	15
6	155	151 18	5	82	93	23	8	109	78	41	2	192	209	12
7	98	84 34	== H,	10,	0	==	9	81	109	33	3	345	346	9
8	46	0 40	0	37	74	29	10	121	112	34	4	61	108	20
9	69	81 38	1	100	103	22	11	87	39	43	5	154	142	19
10	23	115 27	== H,	0,	1	==	== H,	3,	1	==	6	148	143	18
11	16	0 44	1	652	593	18	-11	113	147	23	7	193	175	16
== H,	4,	0 ==	2	426	407	5	-10	92	139	20	8	100	46	39
0	64	83 19	3	438	448	10	-9	136	126	25	9	149	136	23
1	40	71 25	4	99	109	29	-8	295	298	14	10	52	88	32
2	110	127 15	5	297	300	19	-7	98	149	19	== H,	6,	1	==
3	47	61 32	6	123	132	16	-6	115	59	37	-9	37	0	45
4	252	252 11	7	235	234	12	-5	8	0	34	-8	71	91	31
5	27	0 34	8	25	0	33	-4	485	439	8	-7	45	0	42
6	120	113 24	9	4	73	37	-3	227	210	11	-6	154	152	16
7	75	31 39	10	97	123	26	-2	484	497	7	-5	181	153	18
8	110	120 24	11	118	134	25	-1	243	245	9	-4	70	0	39
9	22	0 42	12	34	83	43	0	449	461	10	-3	109	116	19
10	89	122 23	== H,	1,	1	==	1	243	244	9	-2	293	285	10
== H,	5,	0 ==	-12	99	140	27	2	484	475	8	-1	23	31	30
1	275	286 9	-11	91	98	42	3	227	223	11	0	8	63	20
2	252	215 11	-10	126	119	34	4	485	506	8	1	23	42	30
3	34	0 37	-9	35	91	43	5	8	59	33	2	293	284	10
4	147	169 16	-8	51	48	43	6	115	76	36	3	109	95	26
5	101	138 17	-7	245	255	16	7	98	117	24	4	70	102	20

M 1471-14

5	181	188	15	7	101	113	39	-5	101	122	18	-8	131	136	19
6	154	120	23	8	100	76	38	-4	448	408	9	-7	150	145	18
7	45	0	44	9	25	103	30	-3	347	384	9	-6	94	127	20
8	71	55	36	10	228	249	14	-2	307	301	9	-5	75	74	27
9	37	58	37	11	75	93	35	-1	178	175	12	-4	244	230	11
= H,	7,	1	==	12	149	178	21	0	322	312	7	-3	164	158	16
-8	53	60	35	== H,	1,	2	==	1	178	185	11	-2	250	225	12
-7	28	0	45	-12	55	69	45	2	307	326	9	-1	141	145	14
-6	69	88	26	-11	35	0	44	3	347	380	8	0	156	162	10
-5	117	145	16	-10	250	220	23	4	448	452	8	1	141	159	14
-4	302	304	11	-9	147	131	30	5	101	73	33	2	250	227	12
-3	148	127	20	-8	118	43	44	6	251	278	12	3	164	171	15
-2	40	65	30	-7	40	79	39	7	134	120	25	4	243	234	13
-1	79	0	42	-6	104	78	36	8	102	85	37	5	75	65	38
0	172	189	21	-5	36	0	33	9	142	116	29	6	94	120	21
1	79	87	25	-4	87	85	28	10	52	85	40	7	150	133	21
2	40	0	42	-3	165	152	16	11	34	61	41	8	131	91	30
3	147	126	19	-2	538	536	6	== H,	4,	2	==	9	77	116	23
4	302	296	11	-1	262	295	8	-10	117	125	23	== H,	7,	2	==
5	117	159	16	0	7	0	23	-9	57	0	44	-8	49	48	36
6	69	64	38	1	262	236	9	-8	51	71	35	-7	16	64	35
7	28	49	35	2	538	542	6	-7	136	160	16	-6	173	156	15
8	53	73	29	3	165	185	13	-6	82	59	35	-5	115	82	28
= H,	8,	1	==	4	87	107	22	-5	88	133	15	-4	59	56	33
-7	28	0	46	5	36	0	33	-4	78	84	24	-3	186	186	14
-6	25	0	44	6	104	119	23	-3	247	266	10	-2	104	118	17
-5	34	29	32	7	41	88	35	-2	49	0	34	-1	129	133	15
-4	32	0	43	8	118	139	26	-1	127	160	11	0	98	98	14
-3	81	92	25	9	147	136	32	0	328	329	6	1	129	115	19
-2	188	182	14	10	250	246	20	1	127	140	15	2	104	86	25
-1	123	149	15	11	35	24	46	2	49	64	30	3	186	189	13
0	100	98	17	12	55	55	46	3	247	266	11	4	59	0	43
1	123	177	12	== H,	2,	2	==	4	78	0	38	5	115	143	17
2	188	196	12	-11	38	92	38	5	88	125	17	6	173	183	16
3	81	96	24	-10	75	82	43	6	82	90	29	7	16	0	46
4	32	0	43	-9	156	132	29	7	136	173	16	8	49	0	45
5	34	24	32	-8	154	142	25	8	51	64	37	== H,	8,	2	==
6	25	54	34	-7	133	153	20	9	57	0	42	-7	36	79	24
7	28	0	47	-6	68	124	22	10	117	103	31	-6	11	0	43
= H,	9,	1	==	-5	538	526	9	== H,	5,	2	==	-5	75	87	24
-5	14	89	22	-4	486	454	8	-10	62	80	33	-4	79	0	44
-4	11	0	41	-3	726	678	7	-9	92	111	23	-3	138	137	17
-3	6	72	26	-2	466	479	7	-8	90	131	20	-2	91	108	17
-2	10	63	31	-1	755	799	6	-7	47	58	34	-1	168	154	15
-1	38	0	43	0	539	549	4	-6	149	120	22	0	121	129	12
0	159	157	11	1	755	778	6	-5	109	108	22	1	168	163	15
1	38	0	45	2	466	487	7	-4	69	87	22	2	91	106	22
2	10	102	21	3	726	726	7	-3	108	102	22	3	138	111	22
3	6	0	46	4	486	466	8	-2	196	204	11	4	79	71	31
4	11	0	43	5	538	534	9	-1	174	133	15	5	76	85	27
5	14	0	46	6	68	100	28	0	422	399	6	6	11	84	28
= H,	10,	1	==	7	133	139	23	1	174	172	13	7	36	0	48
-1	12	36	32	8	154	164	22	2	196	223	10	== H,	9,	2	==
0	35	70	20	9	156	167	25	3	108	105	21	-5	79	54	33
1	13	0	44	10	75	31	43	4	69	104	23	-4	40	0	43
= H,	0,	2	==	11	38	63	43	5	109	122	21	-3	97	95	23
0	1042	1024	17	== H,	3,	2	==	6	149	156	17	-2	97	98	24
1	1014	996	4	-11	34	98	33	7	47	0	40	-1	53	71	32
2	366	351	13	-10	52	19	41	8	90	64	37	0	81	81	26
3	1167	1136	28	-9	142	121	27	9	92	107	27	1	53	77	28
4	328	327	8	-8	102	74	39	10	62	73	37	2	97	105	21
5	144	115	19	-7	134	125	22	== H,	6,	2	==	3	98	98	25
6	58	47	30	-6	252	256	13	-9	77	89	32	4	40	94	19

5	79	0	47	11	47	49	42	5	69	64	37	-3	8	78	25
== H,	10,	2	==	== H,	3,	3	==	6	91	92	27	-2	52	83	25
0	30	42	31	-11	77	103	31	7	143	175	15	-1	63	56	31
== H,	0,	3	==	-10	104	76	39	8	89	0	43	0	61	0	37
1	1034	1022	16	-9	42	39	39	9	81	99	31	1	63	0	44
2	926	917	22	-8	180	157	20	10	25	0	44	2	52	0	46
3	296	262	28	-7	68	29	36	== H,	6,	3	==	3	8	89	22
4	34	0	28	-6	105	36	36	-9	51	0	43	4	36	34	33
5	334	357	8	-5	214	183	14	-8	24	51	34	5	28	0	46
6	284	285	11	-4	298	275	10	-7	123	85	29	== H,	0,	4	==
7	79	0	31	-3	146	125	18	-6	217	205	14	0	549	379	61
8	68	86	32	-2	278	298	8	-5	89	133	16	1	6	0	25
9	0	80	36	-1	315	318	9	-4	202	189	13	2	754	723	13
10	81	41	37	0	792	816	4	-3	218	237	12	3	90	94	19
11	146	183	19	1	315	311	9	-2	54	31	32	4	285	311	8
12	82	80	42	2	278	284	10	-1	28	0	37	5	161	175	30
== H,	1,	3	==	3	146	131	17	0	30	0	31	6	154	151	15
-11	72	118	34	4	298	326	10	1	28	0	39	7	96	107	34
-10	41	0	42	5	214	201	13	2	54	86	24	8	249	284	12
-9	132	151	27	6	105	118	21	3	218	238	12	9	336	362	11
-8	86	149	23	7	68	108	26	4	202	216	14	10	16	78	40
-7	262	280	13	8	180	108	33	5	89	86	31	11	28	0	36
-6	98	57	37	9	42	0	43	6	217	245	12	== H,	1,	4	==
-5	249	281	12	10	104	62	41	7	123	135	19	-11	127	112	38
-4	299	292	10	11	77	106	31	8	24	51	35	-10	144	149	26
-3	353	334	9	== H,	4,	3	==	9	51	42	35	-9	180	162	27
-2	438	433	7	-10	27	35	38	== H,	7,	3	==	-8	142	86	43
-1	624	616	6	-9	62	92	33	-8	113	106	20	-7	198	168	20
0	475	505	5	-8	190	180	16	-7	85	76	29	-6	10	0	36
1	625	597	6	-7	107	81	33	-6	40	32	34	-5	374	371	10
2	437	433	7	-6	88	98	25	-5	175	160	16	-4	107	85	27
3	353	329	9	-5	80	73	27	-4	69	0	41	-3	140	132	18
4	299	275	11	-4	287	305	10	-3	95	120	18	-2	447	419	8
5	249	276	11	-3	174	164	14	-2	72	92	23	-1	625	636	6
6	98	95	29	-2	410	436	8	-1	50	0	39	0	666	679	4
7	262	284	14	-1	306	314	8	0	3	64	25	1	625	585	6
8	86	159	20	0	306	300	6	1	50	0	41	2	447	446	7
9	132	113	37	1	306	282	10	2	72	105	21	3	140	148	16
10	41	121	30	2	410	444	8	3	95	0	44	4	107	111	22
11	72	159	26	3	174	186	13	4	69	61	35	5	373	398	10
== H,	2,	3	==	4	287	314	10	5	175	162	17	6	10	75	38
-11	47	0	44	5	80	100	24	6	40	61	34	7	198	190	19
-10	183	152	26	6	88	113	24	7	85	75	35	8	142	147	26
-9	52	0	41	7	107	42	38	8	113	71	36	9	180	193	20
-8	157	138	27	8	190	204	15	== H,	8,	3	==	10	144	179	23
-7	160	147	22	9	62	0	44	-7	39	0	39	11	127	154	25
-6	124	86	32	10	27	88	33	-6	28	17	34	== H,	2,	4	==
-5	187	150	18	== H,	5,	3	==	-5	71	60	36	-11	65	44	41
-4	408	418	8	-10	25	0	43	-4	38	17	31	-10	110	114	31
-3	316	306	9	-9	81	63	35	-3	48	71	28	-9	45	0	41
-2	529	562	7	-8	89	103	26	-2	95	114	17	-8	28	0	39
-1	593	625	6	-7	143	108	23	-1	132	133	17	-7	109	98	30
0	194	200	11	-6	91	82	25	0	194	190	9	-6	333	333	11
1	593	608	6	-5	69	69	34	1	132	133	17	-5	329	307	11
2	529	569	7	-4	155	155	16	2	95	69	34	-4	100	98	21
3	316	325	9	-3	143	142	15	3	48	60	32	-3	377	373	9
4	408	406	9	-2	61	59	31	4	39	55	33	-2	482	495	8
5	187	177	15	-1	89	67	28	5	71	77	29	-1	233	245	9
6	124	155	18	0	23	0	29	6	28	64	36	0	464	500	5
7	160	195	17	1	90	72	30	7	39	0	49	1	232	248	10
8	157	147	23	2	61	0	37	== H,	9,	3	==	2	482	489	8
9	52	66	41	3	143	164	15	-5	28	61	33	3	377	410	8
10	183	164	25	4	155	185	14	-4	36	41	33	4	100	134	18

M1471-15

5	329	346	10	-1	304	315	9	5	74	99	23	0	715	724	4
6	333	285	13	0	88	91	16	6	42	0	45	1	585	601	7
7	109	132	20	1	305	312	10	7	39	0	50	2	446	458	8
8	28	81	38	2	173	169	15	== H,	9,	4	==	3	422	401	8
9	45	105	29	3	38	99	20	-5	23	84	26	4	134	133	17
10	110	135	27	4	200	189	17	-4	44	0	43	5	12	0	35
11	65	99	35	5	35	68	35	-3	89	55	34	6	124	98	29
= H,	3,	4	==	6	13	87	27	-2	102	136	17	7	91	112	27
-11	32	0	43	7	135	133	21	-1	110	73	31	8	154	158	23
-10	59	0	43	8	103	111	24	0	30	97	35	9	42	0	41
-9	120	122	25	9	55	98	30	1	110	95	25	10	51	0	44
-8	34	75	36	10	53	77	33	2	102	69	35	11	85	74	43
-7	138	129	22	== H,	6,	4	==	3	89	81	29	== H,	3,	5	==
-6	64	0	38	-9	72	98	23	4	43	0	44	-11	68	0	44
-5	351	348	9	-8	68	0	42	5	23	51	32	-10	78	0	42
-4	216	182	14	-7	97	91	25	== H,	0,	5	==	-9	65	104	28
-3	223	237	11	-6	61	0	41	1	1444	1400	23	-8	169	156	18
-2	77	71	27	-5	171	162	14	2	1242	1188	10	-7	78	81	31
-1	328	328	8	-4	189	206	13	3	432	414	6	-6	17	113	20
0	254	240	7	-3	132	129	18	4	29	58	30	-5	168	174	15
1	328	336	9	-2	112	120	18	5	37	43	30	-4	318	319	10
2	77	0	35	-1	74	67	28	6	99	89	47	-3	333	365	9
3	223	230	11	0	171	171	10	7	132	133	19	-2	150	132	16
4	216	243	11	1	74	42	32	8	111	120	23	-1	73	110	17
5	351	359	10	2	112	113	20	9	76	124	21	0	478	496	8
6	64	27	36	3	131	127	20	10	100	110	28	1	73	77	28
7	138	129	23	4	189	202	14	11	98	124	25	2	151	146	16
8	34	73	38	5	171	174	17	== H,	1,	5	==	3	333	360	9
9	120	155	20	6	60	0	44	-11	57	73	43	4	318	333	9
10	59	98	31	7	97	88	28	-10	62	111	35	5	168	147	17
11	32	75	39	8	68	88	27	-9	157	160	23	6	17	51	36
= H,	4,	4	==	9	72	0	47	-8	136	136	26	7	78	69	38
-10	26	0	44	== H,	7,	4	==	-7	88	69	39	8	169	147	21
-9	86	73	36	-8	22	0	42	-6	201	186	18	9	65	19	39
-8	45	95	26	-7	92	130	20	-5	125	147	18	10	78	79	40
-7	140	145	18	-6	55	24	33	-4	451	456	9	11	68	0	43
-6	64	75	28	-5	85	53	34	-3	354	328	9	== H,	4,	5	==
-5	123	143	14	-4	95	63	34	-2	450	445	8	-10	40	116	22
-4	277	271	11	-3	170	168	15	-1	1219	1205	6	-9	120	111	25
-3	68	83	21	-2	50	60	33	0	1733	1698	10	-8	135	138	19
-2	115	102	19	-1	143	81	32	1	1219	1253	5	-7	52	0	41
-1	288	326	8	0	41	67	26	2	450	474	7	-6	164	168	14
0	260	258	16	1	143	177	14	3	354	340	9	-5	152	122	21
1	288	305	9	2	50	92	24	4	451	454	9	-4	165	177	16
2	115	85	27	3	170	162	16	5	125	135	20	-3	91	77	25
3	69	102	21	4	95	43	35	6	201	201	16	-2	52	61	29
4	277	281	11	5	85	95	27	7	88	108	27	-1	301	304	9
5	123	126	19	6	55	0	47	8	136	131	28	0	348	361	6
6	64	59	35	7	92	73	36	9	157	133	31	1	301	317	9
7	140	100	30	8	22	0	48	10	62	96	41	2	52	14	32
8	45	0	42	== H,	8,	4	==	11	57	77	46	3	91	92	25
9	86	144	17	-7	39	48	31	== H,	2,	5	==	4	165	155	18
10	26	40	38	-6	42	0	42	-11	85	61	42	5	152	133	20
= H,	5,	4	==	-5	74	67	34	-10	51	0	43	6	164	148	19
-10	53	0	44	-4	70	72	31	-9	42	101	27	7	52	67	36
-9	55	26	35	-3	116	95	23	-8	154	103	33	8	135	116	26
-8	103	89	27	-2	45	93	22	-7	91	24	39	9	120	90	34
-7	135	124	19	-1	170	195	12	-6	124	115	23	10	40	53	39
-6	12	17	33	0	52	68	21	-5	12	79	28	== H,	5,	5	==
-5	35	24	35	1	170	139	19	-4	134	127	18	-10	5	71	30
-4	201	209	11	2	45	47	34	-3	423	429	9	-9	31	0	43
-3	38	0	35	3	116	76	32	-2	446	434	8	-8	61	58	33
-2	173	177	12	4	70	43	33	-1	585	578	7	-7	149	128	18

-6	73	0	39	2	98	93	25	-4	67	81	26	-9	79	87	27
-5	230	234	12	3	9	0	43	-3	298	267	11	-8	55	83	25
-4	87	68	26	4	76	0	45	-2	232	225	12	-7	38	0	41
-3	115	96	19	5	94	116	22	-1	627	622	7	-6	114	114	24
-2	76	106	18	6	12	40	35	0	215	236	14	-5	162	150	20
-1	64	49	31	7	55	0	49	1	627	624	7	-4	26	53	31
0	77	82	16	== H,	9,	5	==	2	232	225	12	-3	34	43	30
1	64	66	31	-5	54	64	34	3	298	305	10	-2	273	283	10
2	76	83	26	-4	47	84	26	4	67	0	35	-1	49	61	32
3	115	111	20	-3	87	108	21	5	275	290	11	0	7	30	28
4	87	95	27	-2	71	85	24	6	103	24	38	1	49	67	29
5	229	230	14	-1	109	123	18	7	222	197	19	2	273	265	11
6	73	112	22	0	46	43	27	8	62	115	28	3	34	83	26
7	149	170	17	1	110	126	18	9	14	107	26	4	26	76	33
8	61	70	36	2	71	92	27	10	61	0	41	5	162	190	15
9	31	93	28	3	87	71	34	11	72	55	43	6	114	117	24
10	5	0	45	4	47	0	44	== H,	3,	6	==	7	38	0	44
== H,	6,	5	==	5	54	0	48	-11	74	0	44	8	55	19	37
-9	48	0	42	== H,	0,	6	==	-10	76	119	23	9	79	123	23
-8	43	51	31	0	62	0	29	-9	8	0	42	== H,	6,	6	==
-7	142	71	34	1	606	676	27	-8	75	67	36	-9	42	59	31
-6	74	60	36	2	409	427	33	-7	75	44	37	-8	25	49	34
-5	159	156	14	3	51	51	30	-6	148	125	19	-7	80	63	34
-4	87	40	33	4	42	17	29	-5	168	147	18	-6	142	169	16
-3	166	139	18	5	263	271	21	-4	191	204	14	-5	234	218	12
-2	61	68	31	6	309	300	17	-3	149	171	15	-4	97	126	16
-1	117	109	19	7	132	137	21	-2	273	288	9	-3	141	118	20
0	153	173	18	8	43	45	36	-1	223	213	11	-2	283	301	11
1	117	136	16	9	29	61	36	0	27	0	27	-1	130	138	15
2	60	0	40	10	152	178	32	1	223	249	10	0	142	159	15
3	166	174	15	11	97	37	39	2	273	285	10	1	130	144	17
4	87	95	27	== H,	1,	6	==	3	149	154	16	2	283	300	11
5	159	147	20	-11	26	0	44	4	191	190	14	3	141	129	22
6	74	80	32	-10	161	108	40	5	168	171	16	4	97	89	30
7	142	169	16	-9	108	152	23	6	148	167	16	5	234	238	13
8	43	26	36	-8	289	281	15	7	75	65	37	6	141	146	20
9	48	49	36	-7	201	162	22	8	75	133	21	7	80	124	19
== H,	7,	5	==	-6	132	132	20	9	8	85	36	8	25	44	35
-7	129	79	34	-5	176	172	16	10	76	0	42	9	43	75	34
-6	65	0	42	-4	219	217	13	11	74	64	40	== H,	7,	6	==
-5	134	133	17	-3	382	419	9	== H,	4,	6	==	-7	30	27	35
-4	92	96	24	-2	598	612	7	-10	64	75	33	-6	120	163	13
-3	116	124	19	-1	729	714	6	-9	95	101	26	-5	94	114	17
-2	121	146	16	0	632	623	4	-8	143	124	21	-4	91	83	28
-1	119	82	29	1	729	722	6	-7	141	115	21	-3	85	76	29
0	97	80	20	2	598	651	7	-6	88	102	23	-2	96	95	24
1	119	127	19	3	382	369	9	-5	136	88	30	-1	63	127	17
2	121	132	18	4	219	226	12	-4	210	213	13	0	36	35	30
3	116	141	17	5	176	152	18	-3	381	416	8	1	63	71	31
4	92	71	34	6	133	158	18	-2	68	14	31	2	96	81	30
5	134	66	37	7	201	215	16	-1	451	458	8	3	85	61	36
6	65	114	23	8	289	315	15	0	81	93	16	4	91	81	29
7	129	144	19	9	108	65	43	1	451	442	8	5	94	87	31
== H,	8,	5	==	10	161	159	25	2	67	50	33	6	120	126	21
-7	55	78	23	11	26	104	35	3	381	405	9	7	30	0	47
-6	12	0	43	== H,	2,	6	==	4	210	217	13	== H,	8,	6	==
-5	94	115	22	-11	72	133	26	5	136	157	16	-7	18	69	24
-4	76	63	34	-10	62	0	43	6	88	124	23	-6	48	0	41
-3	9	0	41	-9	14	0	41	7	141	141	22	-5	97	99	22
-2	98	0	44	-8	62	0	41	8	143	161	18	-4	59	32	33
-1	101	106	19	-7	221	243	13	9	95	117	25	-3	57	76	26
0	130	123	14	-6	103	114	21	10	64	96	29	-2	36	83	27
1	101	38	35	-5	275	262	11	== H,	5,	6	==	-1	107	43	35

M1471-16

0	201	187	10	-5	250	223	14	== H,	5,	7	==	1	47	66	34
1	107	128	19	-4	119	93	26	-9	44	48	34	2	31	89	25
2	36	0	45	-3	20	0	34	-8	113	121	17	3	41	0	45
3	57	75	29	-2	560	573	8	-7	70	92	23	4	52	0	46
4	59	0	46	-1	345	323	8	-6	75	0	41	5	39	0	48
5	97	46	36	0	373	356	6	-5	282	292	12	6	42	82	29
6	48	40	36	1	345	350	9	-4	126	132	16	7	31	41	36
7	18	0	49	2	560	554	8	-3	57	0	36	== H,	9,	7	==
H,	9,	6	==	3	20	57	33	-2	173	154	15	-4	9	0	43
-5	37	39	34	4	119	118	20	-1	279	285	10	-3	95	78	34
-4	38	0	43	5	250	236	13	0	66	76	20	-2	116	125	20
-3	26	26	35	6	58	100	26	1	279	266	11	-1	68	82	27
-2	21	69	31	7	87	50	40	2	173	198	14	0	6	39	31
-1	80	57	34	8	93	98	30	3	57	0	40	1	68	114	20
0	84	67	24	9	100	113	29	4	126	144	17	2	116	122	19
1	80	115	19	10	33	64	40	5	282	283	12	3	95	98	24
2	21	55	33	11	45	92	38	6	75	103	27	4	9	49	33
3	27	73	28	== H,	3,	7	==	7	71	66	37	== H,	0,	8	==
4	38	0	45	-11	47	22	39	8	113	71	38	0	428	428	6
5	37	88	22	-10	40	0	44	9	44	0	45	1	275	310	35
H,	0,	7	==	-9	107	0	44	== H,	6,	7	==	2	467	456	17
1	727	709	11	-8	145	111	25	-8	93	79	29	3	185	204	14
2	252	254	11	-7	228	206	15	-7	81	82	31	4	123	102	26
3	5	0	28	-6	243	221	14	-6	109	118	23	5	22	0	30
4	471	473	18	-5	129	128	21	-5	8	0	41	6	123	120	33
5	53	73	26	-4	111	152	16	-4	161	172	14	7	127	122	52
6	49	54	33	-3	470	491	8	-3	168	172	15	8	15	0	34
7	319	326	13	-2	305	289	9	-2	89	101	23	9	134	129	25
8	181	165	17	-1	309	330	9	-1	117	115	19	10	1	68	35
9	65	64	36	0	48	31	26	0	1	25	30	11	24	86	36
10	65	134	36	1	309	327	9	1	117	96	25	== H,	1,	8	==
11	81	99	39	2	306	326	9	2	89	116	19	-11	117	0	45
H,	1,	7	==	3	470	503	8	3	168	145	19	-10	170	183	19
11	46	64	43	4	111	111	22	4	161	146	20	-9	46	64	41
10	16	71	42	5	129	85	32	5	8	0	43	-8	29	47	40
-9	191	205	20	6	243	263	13	6	109	136	20	-7	22	125	22
-8	146	128	28	7	228	243	14	7	81	89	30	-6	61	0	37
-7	137	136	24	8	144	178	17	8	93	102	26	-5	218	215	15
-6	57	34	37	9	107	116	29	== H,	7,	7	==	-4	150	154	18
-5	95	109	24	10	40	0	44	-7	72	118	22	-3	204	204	14
-4	213	217	13	11	47	125	24	-6	45	46	32	-2	21	71	34
-3	400	373	10	== H,	4,	7	==	-5	112	100	20	-1	541	562	8
-2	508	476	8	-10	110	72	34	-4	78	93	25	0	366	425	6
-1	268	256	13	-9	71	0	41	-3	203	218	14	1	541	548	8
0	51	62	30	-8	48	17	35	-2	60	0	41	2	21	0	34
1	268	266	13	-7	36	0	41	-1	65	0	38	3	204	217	12
2	508	518	8	-6	57	64	35	0	4	29	28	4	150	129	20
3	400	394	9	-5	27	59	36	1	65	0	42	5	218	211	15
4	213	205	13	-4	102	27	35	2	60	61	34	6	61	94	33
5	95	76	35	-3	106	97	20	3	203	207	13	7	22	105	27
6	57	67	36	-2	231	226	11	4	78	44	37	8	29	61	41
7	137	139	24	-1	170	175	13	5	112	131	21	9	46	0	43
8	146	150	23	0	461	466	6	6	45	66	34	10	170	208	20
9	191	187	20	1	170	149	16	7	72	118	20	11	117	111	41
10	16	0	43	2	231	236	12	== H,	8,	7	==	== H,	2,	8	==
11	46	120	33	3	106	98	25	-7	31	35	31	-11	97	112	28
H,	2,	7	==	4	102	65	35	-6	42	0	41	-10	89	113	23
11	45	92	37	5	27	0	39	-5	39	76	26	-9	50	0	43
10	33	29	40	6	57	0	41	-4	52	94	21	-8	83	93	32
-9	100	138	23	7	36	68	37	-3	41	68	33	-7	118	81	41
-8	93	122	23	8	48	0	44	-2	31	98	21	-6	157	166	16
-7	87	103	27	9	71	61	38	-1	47	35	33	-5	128	88	31
-6	58	57	36	10	110	0	44	0	0	51	31	-4	189	179	17

-3	231	252	11	-6	54	67	36	6	32	62	35	4	342	315	11
-2	243	279	10	-5	142	135	20	== H,	9,	8	==	5	138	162	18
-1	444	457	8	-4	130	139	17	-4	32	79	28	6	76	101	27
0	60	63	23	-3	96	91	23	-3	44	66	34	7	133	141	21
1	443	408	9	-2	245	241	11	-2	39	86	26	8	67	0	41
2	243	220	12	-1	166	180	13	-1	56	86	23	9	53	103	28
3	230	244	11	0	163	186	9	0	33	44	29	10	63	0	43
4	189	210	13	1	166	187	13	1	56	0	46	11	85	107	34
5	128	141	20	2	244	242	12	2	39	61	35	== H,	3,	9	==
6	157	170	18	3	96	58	35	3	44	111	19	-10	109	40	39
7	118	115	27	4	130	108	27	4	32	49	33	-9	70	99	27
8	83	80	37	5	142	139	21	== H,	0,	9	==	-8	15	26	37
9	50	104	30	6	54	71	37	1	239	264	35	-7	42	0	41
10	89	0	44	7	217	188	17	2	168	178	12	-6	65	43	39
11	97	130	28	8	156	140	22	3	226	254	10	-5	167	144	20
== H,	3,	8	==	9	19	104	26	4	541	541	6	-4	208	235	13
-10	89	97	29	== H,	6,	8	==	5	86	63	32	-3	83	75	29
-9	26	27	37	-8	56	88	24	6	292	296	9	-2	42	85	24
-8	159	166	19	-7	118	141	19	7	58	94	28	-1	87	101	17
-7	202	220	12	-6	94	93	29	8	261	284	12	0	254	238	8
-6	75	103	25	-5	19	0	39	9	231	230	15	1	87	129	19
-5	285	274	12	-4	205	184	15	10	23	66	37	2	42	48	33
-4	184	191	15	-3	150	146	15	11	70	102	27	3	83	0	37
-3	214	234	11	-2	165	176	13	== H,	1,	9	==	4	208	229	13
-2	461	488	8	-1	89	70	32	-11	56	0	45	5	167	182	17
-1	372	359	8	0	214	216	10	-10	6	0	44	6	65	51	38
0	60	69	21	1	89	67	35	-9	45	0	41	7	42	36	38
1	372	396	9	2	165	173	16	-8	147	180	19	8	15	66	39
2	461	472	9	3	150	137	21	-7	186	188	19	9	70	74	40
3	214	190	14	4	205	194	15	-6	121	125	23	10	109	133	26
4	184	192	15	5	19	34	35	-5	192	200	16	== H,	4,	9	==
5	285	294	12	6	94	110	25	-4	330	340	11	-10	53	64	36
6	75	72	39	7	118	97	28	-3	296	313	11	-9	86	84	28
7	202	164	20	8	56	0	46	-2	468	501	9	-8	12	0	41
8	159	146	22	== H,	7,	8	==	-1	217	207	27	-7	117	44	38
9	26	0	44	-7	35	85	27	0	109	82	39	-6	57	0	40
10	89	92	35	-6	58	39	31	1	217	75	52	-5	55	120	22
== H,	4,	8	==	-5	104	96	22	2	468	441	9	-4	110	105	23
-10	62	61	35	-4	125	106	22	3	296	282	12	-3	44	71	30
-9	59	135	17	-3	85	118	17	4	330	338	10	-2	281	279	10
-8	85	100	25	-2	108	91	28	5	192	204	16	-1	166	180	13
-7	106	101	25	-1	55	55	33	6	121	79	39	0	31	0	31
-6	82	112	23	0	74	84	19	7	186	187	18	1	166	159	15
-5	79	92	31	1	55	64	33	8	148	167	22	2	281	311	11
-4	73	40	35	2	108	99	27	9	45	36	44	3	44	96	24
-3	228	242	10	3	85	0	44	10	6	0	43	4	110	136	19
-2	355	335	9	4	125	150	17	11	56	51	44	5	55	103	26
-1	159	170	12	5	104	96	28	== H,	2,	9	==	6	57	89	29
0	193	193	9	6	58	0	47	-11	85	110	28	7	117	119	26
1	159	134	19	7	35	55	35	-10	63	0	42	8	12	0	42
2	355	358	9	== H,	8,	8	==	-9	53	0	43	9	86	100	30
3	228	248	12	-6	32	0	44	-8	67	59	39	10	53	0	44
4	73	124	21	-5	11	43	32	-7	133	150	19	== H,	5,	9	==
5	79	111	24	-4	80	94	21	-6	76	55	38	-9	88	77	31
6	82	0	42	-3	68	78	28	-5	138	64	38	-8	59	38	36
7	106	85	36	-2	95	94	28	-4	342	363	10	-7	35	0	41
8	85	93	30	-1	77	65	34	-3	337	349	10	-6	114	56	40
9	59	106	27	0	112	125	15	-2	379	355	9	-5	78	108	26
10	62	83	39	1	77	94	25	-1	292	293	9	-4	120	131	17
== H,	5,	8	==	2	95	78	32	0	21	36	28	-3	157	143	14
-9	19	32	33	3	68	97	23	1	292	305	10	-2	89	119	16
-8	156	131	21	4	80	120	19	2	379	388	9	-1	162	169	15
-7	217	229	14	5	11	0	45	3	337	352	9	0	97	119	15

M 1471-17

1	162	166	15	1	42	0	48	== H,	3,	10	==	9	36	27	40
2	89	76	32	2	35	0	47	-10	38	19	38	== H,	6,	10	==
3	157	156	18	3	38	55	35	-9	31	106	25	-8	29	29	34
4	120	109	25	4	33	0	49	-8	203	179	18	-7	123	115	25
5	77	44	38	== H,	0,	10	==	-7	211	196	17	-6	63	120	20
6	114	131	21	0	138	139	19	-6	55	86	33	-5	85	145	17
7	35	48	37	1	63	58	30	-5	260	293	12	-4	123	132	17
8	59	71	37	2	323	308	8	-4	90	88	31	-3	167	163	15
9	88	0	47	3	48	52	30	-3	172	162	15	-2	158	157	16
= H,	6,	9	==	4	263	232	33	-2	191	176	14	-1	121	84	29
-8	48	0	45	5	50	59	32	-1	303	295	9	0	88	87	21
-7	105	105	27	6	39	0	32	0	520	534	6	1	121	151	17
-6	20	0	41	7	7	46	35	1	303	298	11	2	158	197	13
-5	87	96	24	8	223	216	14	2	191	188	14	3	167	154	19
-4	34	51	32	9	104	98	49	3	172	154	18	4	123	100	29
-3	91	75	31	10	58	28	37	4	90	67	37	5	85	39	36
-2	149	148	16	11	16	120	54	5	260	241	14	6	63	0	46
-1	287	279	12	== H,	1,	10	==	6	56	94	28	7	123	177	16
0	118	111	16	-11	16	64	42	7	211	196	18	8	29	0	44
1	287	258	13	-10	74	0	41	8	203	197	19	== H,	7,	10	==
2	149	178	15	-9	73	131	27	9	31	27	41	-6	24	40	31
3	91	140	19	-8	90	94	32	10	38	0	45	-5	43	0	43
4	34	108	23	-7	113	138	25	== H,	4,	10	==	-4	41	41	31
5	86	75	33	-6	184	181	18	-10	55	0	43	-3	98	75	29
6	20	0	45	-5	130	111	28	-9	100	83	29	-2	90	84	27
7	105	68	38	-4	117	139	22	-8	137	145	20	-1	66	108	21
8	48	96	28	-3	181	141	21	-7	73	65	40	0	58	63	26
= H,	7,	9	==	-2	748	714	8	-6	22	0	39	1	66	0	46
-7	31	59	35	-1	466	441	14	-5	194	214	15	2	90	17	36
-6	72	69	29	0	79	47	29	-4	146	166	16	3	98	53	36
-5	23	0	41	1	466	346	18	-3	171	185	13	4	41	0	43
-4	100	89	26	2	748	717	8	-2	141	152	14	5	43	24	37
-3	88	112	20	3	181	201	14	-1	46	58	33	6	24	0	47
-2	108	108	24	4	117	80	37	0	175	185	15	== H,	8,	10	==
-1	140	145	17	5	130	154	19	1	46	86	29	-6	45	0	43
0	52	69	31	6	183	186	16	2	141	164	15	-5	95	72	28
1	140	139	18	7	113	88	37	3	171	190	16	-4	45	0	40
2	108	102	23	8	90	93	37	4	146	186	15	-3	42	41	32
3	88	29	35	9	73	92	39	5	194	188	18	-2	20	0	39
4	100	105	24	10	74	86	42	6	22	0	43	-1	101	119	21
5	23	0	45	11	16	0	47	7	73	98	29	0	37	0	36
6	72	40	37	== H,	2,	10	==	8	137	97	33	1	101	107	22
7	31	36	36	-10	20	91	33	9	100	40	38	2	20	49	33
= H,	8,	9	==	-9	50	105	28	10	55	41	39	3	42	49	35
-6	66	51	30	-8	32	54	39	== H,	5,	10	==	4	45	0	47
-5	9	24	29	-7	98	123	24	-9	36	0	44	5	95	76	37
-4	28	0	42	-6	105	96	31	-8	38	55	36	6	44	0	49
-3	56	0	41	-5	40	24	38	-7	196	178	19	== H,	9,	10	==
-2	64	89	25	-4	86	108	25	-6	129	147	20	-3	65	0	46
-1	98	112	21	-3	103	115	22	-5	204	239	13	-2	28	85	24
0	47	84	20	-2	174	172	15	-4	118	91	24	-1	67	78	28
1	97	51	35	-1	369	383	9	-3	156	147	15	0	43	49	31
2	64	51	33	0	67	58	25	-2	126	122	18	1	67	50	35
3	56	17	35	1	369	361	10	-1	98	0	37	2	28	40	33
4	27	0	47	2	174	153	17	0	219	215	10	3	65	0	49
5	9	42	35	3	103	109	24	1	98	99	25	== H,	0,	11	==
6	66	80	30	4	85	124	22	2	126	113	25	1	52	48	31
= H,	9,	9	==	5	41	0	38	3	155	135	21	2	193	185	27
-4	33	0	40	6	105	91	35	4	118	111	26	3	414	407	8
-3	38	0	42	7	98	0	43	5	204	167	19	4	189	194	12
-2	35	69	32	8	32	55	40	6	129	146	20	5	95	89	24
-1	42	0	44	9	50	54	40	7	196	186	18	6	45	60	33
0	27	66	22	10	20	0	45	8	38	71	38	7	128	150	17

8	126	111	56	2	108	131	19	5	16	63	35	4	28	34	37
9	95	39	38	3	294	305	12	6	27	0	43	5	80	119	25
10	23	104	26	4	103	54	37	7	50	0	44	6	164	159	22
11	92	105	30	5	100	111	27	8	64	75	36	7	89	122	27
== H,	1,	11	==	6	87	124	23	== H,	7,	11	==	8	111	139	28
-11	85	112	33	7	145	139	24	-6	43	71	30	9	55	0	43
-10	13	0	42	8	62	67	40	-5	61	62	32	10	30	22	44
-9	134	129	28	9	63	99	31	-4	94	72	27	== H,	2,	12	==
-8	76	125	26	10	56	67	39	-3	85	114	17	-10	52	49	39
-7	141	160	21	== H,	4,	11	==	-2	73	82	26	-9	42	0	42
-6	108	41	40	-9	73	0	44	-1	176	167	15	-8	122	102	33
-5	178	177	18	-8	130	137	20	0	175	151	14	-7	138	134	25
-4	191	214	17	-7	65	72	39	1	176	188	15	-6	149	156	21
-3	382	410	11	-6	145	158	19	2	73	84	29	-5	107	90	36
-2	142	0	37	-5	147	141	22	3	85	0	47	-4	60	67	39
-1	499	576	11	-4	77	104	24	4	94	91	29	-3	83	111	26
0	38	0	29	-3	177	179	14	5	61	73	32	-2	233	248	13
1	499	549	11	-2	78	76	27	6	43	36	36	-1	195	180	16
2	142	323	11	-1	65	0	36	== H,	8,	11	==	0	263	265	16
3	382	384	10	0	92	89	18	-5	57	0	41	1	195	189	16
4	191	167	20	1	65	118	21	-4	48	26	31	2	233	254	13
5	178	185	18	2	78	57	36	-3	117	133	17	3	82	93	29
6	108	125	25	3	177	190	16	-2	119	132	20	4	60	52	38
7	141	164	22	4	77	104	26	-1	58	49	34	5	107	67	41
8	76	98	34	5	147	172	16	0	51	75	29	6	149	122	27
9	134	82	44	6	145	73	41	1	58	0	47	7	138	125	27
10	13	95	39	7	65	131	23	2	119	113	22	8	122	120	28
11	85	52	47	8	130	134	25	3	117	118	23	9	42	0	42
== H,	2,	11	==	9	73	87	35	4	48	87	28	10	52	111	32
-10	73	0	45	== H,	5,	11	==	5	57	17	36	== H,	3,	12	==
-9	68	133	20	-9	76	82	33	== H,	9,	11	==	-10	35	51	39
-8	129	138	22	-8	100	99	30	-2	50	54	33	-9	36	70	37
-7	34	130	25	-7	163	154	22	-1	40	0	44	-8	57	0	40
-6	42	51	40	-6	30	0	41	0	35	66	24	-7	206	168	24
-5	110	94	33	-5	108	89	31	1	40	96	26	-6	3	0	41
-4	151	141	23	-4	131	109	25	2	50	0	47	-5	259	221	19
-3	245	249	13	-3	155	159	14	== H,	0,	12	==	-4	91	105	26
-2	266	254	12	-2	212	201	12	0	120	98	24	-3	183	189	16
-1	155	160	15	-1	82	62	34	1	121	97	21	-2	266	284	11
0	29	67	23	0	64	55	30	2	221	218	11	-1	85	99	20
1	155	127	19	1	82	134	20	3	218	215	11	0	309	305	8
2	266	264	12	2	212	209	15	4	149	167	32	1	86	48	37
3	245	250	13	3	155	147	21	5	11	36	32	2	266	234	14
4	151	152	21	4	131	129	23	6	26	26	34	3	183	188	17
5	110	114	26	5	108	114	24	7	163	140	21	4	91	149	19
6	42	57	39	6	30	71	38	8	121	158	62	5	259	252	15
7	34	105	28	7	164	200	17	9	90	105	26	6	4	77	39
8	129	91	40	8	100	48	39	10	43	100	48	7	206	201	18
9	68	55	41	9	76	85	37	== H,	1,	12	==	8	57	52	38
10	73	0	45	== H,	6,	11	==	-10	30	111	31	9	36	0	44
== H,	3,	11	==	-8	64	105	26	-9	55	0	42	10	35	22	40
-10	56	0	42	-7	50	67	38	-8	111	138	28	== H,	4,	12	==
-9	63	63	39	-6	27	34	35	-7	89	59	43	-9	70	95	30
-8	62	67	39	-5	16	0	39	-6	164	162	21	-8	51	0	41
-7	145	156	20	-4	72	38	33	-5	80	102	31	-7	98	44	40
-6	87	106	25	-3	229	246	11	-4	28	36	39	-6	47	123	25
-5	100	110	31	-2	156	165	15	-3	354	332	14	-5	193	191	18
-4	103	107	26	-1	160	200	14	-2	112	0	44	-4	154	156	19
-3	294	295	12	0	31	75	20	-1	202	206	33	-3	78	81	27
-2	108	125	21	1	160	131	21	0	65	0	30	-2	137	131	18
-1	164	140	16	2	156	158	18	1	202	273	24	-1	60	72	29
0	135	144	12	3	229	212	15	2	113	165	18	0	112	134	19
1	164	161	17	4	72	0	44	3	354	361	12	1	60	14	36

MN 1471-18

2	137	151	19	1	127	138	21	10	28	152	21	-4	57	67	32
3	78	82	34	2	117	120	20	== H,	3,	13	==	-3	145	172	14
4	154	165	17	3	84	85	28	-9	94	47	40	-2	69	46	34
5	193	223	14	4	73	76	33	-8	73	96	31	-1	44	0	41
6	47	65	39	5	36	0	49	-7	46	69	41	0	52	79	21
7	98	129	24	== H,	9,	12	==	-6	194	208	18	1	44	17	36
8	51	0	44	-1	38	43	33	-5	52	93	31	2	69	0	43
9	70	46	39	0	17	78	20	-4	239	253	15	3	145	147	20
= H,	5,	12	==	1	38	0	48	-3	254	259	14	4	57	77	31
-8	74	0	46	== H,	0,	13	==	-2	144	125	22	5	43	0	44
-7	108	73	40	1	24	110	52	-1	280	288	11	6	24	94	28
-6	115	115	27	2	29	43	31	0	88	88	21	7	56	0	46
-5	239	248	14	3	135	120	19	1	280	263	13	== H,	7,	13	==
-4	82	89	25	4	166	174	15	2	144	153	19	-5	69	89	22
-3	59	84	25	5	38	56	34	3	254	223	14	-4	25	0	41
-2	108	116	18	6	73	63	34	4	239	234	15	-3	9	56	33
-1	89	76	31	7	162	164	17	5	52	79	40	-2	56	50	31
0	66	0	33	8	93	87	33	6	194	187	19	-1	102	88	25
1	89	0	44	9	67	53	36	7	46	27	41	0	207	204	12
2	108	94	28	10	20	40	37	8	73	57	39	1	102	133	20
3	59	104	26	== H,	1,	13	==	9	94	116	30	2	56	69	35
4	81	103	27	-10	23	0	43	== H,	4,	13	==	3	8	51	35
5	239	216	15	-9	49	90	36	-9	14	69	38	4	25	26	34
6	115	151	21	-8	133	131	32	-8	63	0	44	5	69	129	19
7	108	116	26	-7	143	145	26	-7	207	195	19	== H,	8,	13	==
8	73	98	29	-6	50	82	42	-6	21	0	40	-5	38	0	44
= H,	6,	12	==	-5	17	0	38	-5	140	125	27	-4	60	86	23
-7	55	77	37	-4	29	0	38	-4	89	127	24	-3	58	0	42
-6	41	0	42	-3	560	568	11	-3	18	34	33	-2	37	0	42
-5	121	67	36	-2	474	490	11	-2	110	125	19	-1	76	86	26
-4	131	139	16	-1	359	390	12	-1	113	95	25	0	8	23	33
-3	184	162	15	0	143	124	20	0	154	188	10	1	76	77	34
-2	145	81	31	1	359	368	13	1	113	122	24	2	37	76	30
-1	74	61	34	2	474	457	10	2	110	134	21	3	59	0	48
0	18	41	31	3	561	536	10	3	18	36	36	4	60	0	49
1	74	98	26	4	29	76	39	4	89	87	35	5	38	87	29
2	145	149	19	5	17	17	40	5	140	109	30	== H,	0,	14	==
3	184	199	16	6	50	88	36	6	21	0	43	0	148	146	16
4	131	142	20	7	143	153	24	7	207	192	18	1	224	253	11
5	121	89	33	8	133	42	45	8	63	96	35	2	18	21	33
6	41	55	37	9	49	90	38	9	14	0	45	3	322	343	9
7	55	53	38	10	23	46	43	== H,	5,	13	==	4	154	171	27
= H,	7,	12	==	== H,	2,	13	==	-8	104	78	41	5	63	93	26
-6	14	49	32	-10	28	95	37	-7	113	154	20	6	59	52	34
-5	14	26	33	-9	68	31	42	-6	191	166	21	7	43	70	36
-4	55	81	25	-8	37	29	38	-5	131	141	21	8	34	157	25
-3	64	108	18	-7	84	132	25	-4	78	103	25	9	43	61	38
-2	96	110	22	-6	62	105	30	-3	119	111	22	10	52	102	47
-1	156	169	16	-5	158	177	20	-2	104	119	19	== H,	1,	14	==
0	103	78	23	-4	106	86	38	-1	103	81	30	-10	26	93	36
1	156	142	20	-3	66	106	28	0	209	205	10	-9	50	0	42
2	96	94	30	-2	65	106	23	1	103	76	36	-8	104	122	29
3	64	61	35	-1	297	299	11	2	104	67	37	-7	47	0	42
4	55	42	37	0	283	273	8	3	119	130	22	-6	120	152	23
5	13	85	29	1	297	279	12	4	78	120	23	-5	13	48	41
6	14	73	34	2	65	0	38	5	131	73	40	-4	262	286	15
= H,	8,	12	==	3	66	85	33	6	191	199	16	-3	192	199	18
-5	36	39	31	4	106	76	39	7	113	0	47	-2	216	0	49
-4	73	104	19	5	158	153	21	8	104	57	39	-1	58	198	25
-3	84	68	30	6	62	67	41	== H,	6,	13	==	0	184	224	74
-2	117	74	31	7	84	110	30	-7	56	41	37	1	59	220	22
-1	127	120	22	8	37	0	44	-6	24	0	43	2	216	382	13
0	42	71	29	9	68	120	30	-5	43	0	42	3	192	224	17

4	262	255	15	4	97	87	35	1	27	39	38	1	63	0	41
5	13	0	40	5	90	125	25	2	94	31	33	2	101	157	18
6	120	158	23	6	46	0	44	3	58	82	42	3	56	0	42
7	46	0	40	7	23	27	40	4	0	49	34	4	82	99	33
8	104	148	27	8	72	115	27	5	69	0	34	5	68	0	43
9	50	125	31	9	41	89	37	6	190	218	14	6	161	166	24
10	26	40	44	== H,	5,	14	==	7	17	66	37	7	92	80	41
== H,	2,	14	==	-8	17	100	29	8	142	131	23	8	77	0	45
-10	55	126	28	-7	48	42	38	9	15	92	45	9	31	0	46
-9	42	0	43	-6	75	91	32	10	103	99	50	== H,	4,	15	==
-8	60	56	43	-5	87	103	28	== H,	1,	15	==	-8	93	112	30
-7	148	133	28	-4	129	122	21	-10	83	147	23	-7	135	124	28
-6	48	75	41	-3	77	39	34	-9	83	0	43	-6	130	104	34
-5	70	0	41	-2	26	108	17	-8	101	101	40	-5	88	88	35
-4	31	42	41	-1	69	111	19	-7	122	155	27	-4	196	211	16
-3	231	233	16	0	17	0	33	-6	130	145	28	-3	51	36	35
-2	44	0	36	1	69	52	37	-5	94	104	36	-2	68	0	38
-1	78	112	24	2	26	24	37	-4	287	307	15	-1	40	66	33
0	118	75	27	3	77	0	44	-3	119	53	44	0	161	159	13
1	78	0	41	4	129	116	26	-2	268	210	24	1	40	43	38
2	44	57	38	5	87	44	39	-1	73	0	41	2	68	73	38
3	231	205	18	6	75	46	38	0	303	336	92	3	51	124	22
4	31	0	40	7	48	70	38	1	73	0	44	4	196	196	18
5	70	61	41	8	17	35	38	2	268	304	15	5	88	0	46
6	48	122	26	== H,	6,	14	==	3	119	195	19	6	130	115	28
7	148	154	23	-7	11	52	38	4	287	238	17	7	135	158	22
8	60	95	36	-6	20	0	41	5	94	153	22	8	93	108	34
9	42	0	46	-5	89	115	21	6	130	106	37	== H,	5,	15	==
10	55	0	47	-4	54	53	32	7	122	87	45	-7	56	142	19
== H,	3,	14	==	-3	24	35	32	8	101	0	43	-6	158	150	20
-9	25	0	41	-2	67	57	33	9	84	84	43	-5	103	108	25
-8	37	0	42	-1	138	157	15	10	84	78	47	-4	109	118	22
-7	116	47	43	0	69	62	26	== H,	2,	15	==	-3	165	174	16
-6	64	108	29	1	138	168	17	-9	51	0	43	-2	149	148	16
-5	80	0	39	2	67	95	28	-8	84	31	42	-1	179	145	20
-4	60	105	29	3	24	0	45	-7	112	145	26	0	58	72	23
-3	211	189	18	4	54	86	29	-6	41	82	39	1	179	187	15
-2	43	0	37	5	88	36	37	-5	62	0	41	2	148	140	21
-1	101	96	24	6	20	0	47	-4	45	0	39	3	165	153	19
0	227	226	10	7	12	75	37	-3	120	137	27	4	109	137	20
1	101	36	38	== H,	7,	14	==	-2	114	24	42	5	103	132	22
2	43	40	37	-5	43	0	42	-1	163	174	16	6	158	119	28
3	211	212	17	-4	33	0	41	0	243	263	9	7	56	56	40
4	60	100	30	-3	83	58	33	1	163	119	27	== H,	6,	15	==
5	80	83	38	-2	54	26	32	2	114	124	29	-6	43	0	40
6	64	99	34	-1	92	93	26	3	120	142	25	-5	21	0	42
7	116	125	27	0	191	178	12	4	45	0	42	-4	93	51	34
8	37	77	41	1	92	105	25	5	62	38	41	-3	94	85	29
9	25	0	44	2	54	62	35	6	41	61	41	-2	128	118	21
== H,	4,	14	==	3	83	83	30	7	111	104	34	-1	64	114	19
-9	41	0	44	4	33	61	35	8	84	42	43	0	102	106	18
-8	72	0	44	5	43	82	30	9	51	93	39	1	64	54	36
-7	23	140	22	== H,	8,	14	==	== H,	3,	15	==	2	128	113	24
-6	46	0	41	-4	59	48	30	-9	31	0	45	3	94	99	26
-5	90	43	41	-3	15	44	33	-8	77	64	40	4	93	26	39
-4	97	99	27	-2	129	149	17	-7	92	106	32	5	21	0	47
-3	175	182	15	-1	76	79	30	-6	161	157	25	6	43	0	46
-2	37	69	30	0	114	132	13	-5	68	0	39	== H,	7,	15	==
-1	231	200	15	1	76	96	26	-4	82	61	39	-4	15	50	31
0	49	37	31	2	130	97	28	-3	56	63	38	-3	36	0	41
1	231	231	15	3	15	61	35	-2	101	60	36	-2	101	95	24
2	37	107	22	4	59	81	30	-1	63	48	35	-1	119	116	21
3	175	155	19	== H,	0,	15	==	0	90	38	32	0	120	124	16

M1471-19

```
 1  118  120 22 == H,   3,  16 ==    2   29    0 45    1   83   76 41
 2  101  106 25   -9   23  138 22    3  100  119 21    2   46    0 45
 3   36   17 36   -8   59   70 43    4   50   50 37    3  149  184 22
 4   15    0 46   -7   63   43 42    5   24   74 36    4  160  115 33
= H,   8,  15 ==   -6   65   95 33    6   33    0 48    5  124    0 44
-3   89   84 24   -5   70    0 41 == H,   7,  16 ==    6   39    0 43
-2   87  116 19   -4  102  107 34   -4   79   19 34    7   55   85 39
-1    3    0 41   -3   78   42 40   -3   96   63 31    8   75  110 33
 0    8   74 31   -2  139  103 29   -2   86   88 24    9   63    0 46
 1    3   94 27   -1   34    0 38   -1   43   41 34 == H,   3,  17 ==
 2   87    0 48    0   98   81 24    0   57   64 28   -8   18    0 43
 3   89   78 30    1   34    0 42    1   43   71 36   -7   93  140 24
= H,   0,  16 ==    2  140  144 23    2   86  108 24   -6   62   53 41
 0   80   63 34    3   78   93 32    3   96  120 22   -5   35   36 41
 1    9   44 36    4  102  131 25    4   79   81 30   -4  167  177 21
 2  113  138 46    5   70  113 30 == H,   8,  16 ==   -3   47    0 40
 3  106   59 35    6   65   76 40   -3   49   19 31   -2   58   85 32
 4   96   81 34    7   63   19 43   -2   41   57 31   -1   68   95 25
 5  111  103 26    8   59   98 37   -1   35   38 34    0  251  242 10
 6   16   43 36    9   23   43 41    0  101  113 37    1   68    0 43
 7   76  109 26 == H,   4,  16 ==    1   35    0 47    2   58   75 39
 8  148  187 16   -8   74  106 34    2   41   74 31    3   47    0 44
 9   50   77 37   -7   92   95 39 == H,   0,  17 ==    4  167  167 22
= H,   1,  16 ==   -6   71   56 40    1  102  105 26    5   35   58 41
-9    8    0 43   -5   88   78 37    2  113  155 42    6   62   92 37
-8   37   46 44   -4   38   50 38    3   25   69 35    7   93    0 45
-7   97  110 34   -3   35   88 28    4  161  165 20    8   18   61 40
-6  100  131 29   -2  155  169 16    5   31   72 38 == H,   4,  17 ==
-5   85  145 27   -1   98  142 19    6   40   39 37   -7   69  106 29
-4  242  249 18    0   65   47 33    7  151  148 22   -6   59   68 41
-3  148  145 26    1   98   48 39    8   96   67 37   -5  154  161 24
-2   32    0 48    2  155  179 17    9   49   17 38   -4  153  146 22
-1  171  163 22    3   35   66 38 == H,   1,  17 ==   -3   47    0 41
 0  302  280 90    4   38    0 44   -9   58    0 44   -2   63   44 36
 1  171  170 21    5   88   68 40   -8   50  116 33   -1   45    0 39
 2   32  147 27    6   71   92 36   -7  109   99 44    0  222  203 11
 3  148  220 16    7   92  139 23   -6  157  168 26    1   45    0 43
 4  242  261 16    8   74    0 49   -5   36   64 44    2   63  105 26
 5   85  118 32 == H,   5,  16 ==   -4  137  165 25    3   47    0 43
 6  100   92 41   -7   27   31 39   -3  109   60 45    4  153  168 19
 7   97   64 44   -6  103  113 27   -2  120  125 29    5  154  141 24
 8   37    0 44   -5   65    0 41   -1   30   94 47    6   59    0 44
 9    8    0 43   -4  144  164 16    0  237  220 80    7   69   36 40
= H,   2,  16 ==   -3  120  142 17    1   30    0 47 == H,   5,  17 ==
-9   52   76 41   -2   82   75 32    2  120  125 30   -7   21    0 43
-8   63  122 31   -1   39   83 26    3  109  140 28   -6   40    0 42
-7  105  109 35    0   88   60 31    4  137  148 28   -5   52   76 36
-6  118  102 40    1   39   17 37    5   36    0 43   -4   40   34 36
-5   53   87 37    2   82   69 37    6  157  176 23   -3   36    0 42
-4   70    0 39    3  120  130 23    7  109  129 31   -2  187  185 16
-3  238  249 15    4  144  132 23    8   50    0 44   -1   83   54 36
-2  220  240 15    5   65  132 21    9   58    0 44    0   37   17 30
-1   87   47 40    6  103  106 30 == H,   2,  17 ==    1   84  120 24
 0   78   64 31    7   28   69 39   -9   63    0 45    2  187  138 26
 1   87   29 41 == H,   6,  16 ==   -8   75    0 44    3   36   80 33
 2  220  206 19   -6   33    0 42   -7   55   86 43    4   40    0 45
 3  238  211 19   -5   24    0 42   -6   39  125 28    5   52   57 37
 4   70    0 43   -4   50   32 34   -5  124   31 45    6   40    0 47
 5   53    0 42   -3  100   31 34   -4  160  109 35    7   21   94 35
 6  118  166 22   -2   29   80 26   -3  149   87 46 == H,   6,  17 ==
 7  105   65 43   -1   45   78 31   -2   46   38 44   -5   24   52 35
 8   63   38 43    0  157  134 15   -1   83   89 33   -4   63    0 42
 9   52    0 44    1   45    0 45    0   46  114 17   -3   22   52 33
```



```
   -2   26    0 40    5  119  127 28   -1    9    0 39    7   36   61 42
   -1  114   44 35    6   95   86 42    0   44   36 33 == H,   4,  19 ==
    0   96   90 24    7   76  104 34    1    9    0 47   -7   28    0 44
    1  114  137 20    8   88   78 42 == H,   0,  19 ==   -6   53    0 46
    2   26   40 35 == H,   3,  18 ==    1  202  170 21   -5   25   57 39
    3   22   19 35   -8   34   96 32    2  107   92 48   -4   94  122 27
    4   63    0 46   -7   31   79 43    3   15   81 41   -3  112  153 17
    5   24   38 36   -6   44   80 41    4   10   42 38   -2   71    0 41
 == H,   7,  17 ==   -5   39   38 43    5   85  101 52   -1  152  143 21
   -3   70   56 34   -4   10  118 29    6   29   52 39    0   88  107 19
   -2   60    0 43   -3  159  164 22    7   26   81 41    1  152  129 25
   -1   81    0 42   -2   87    0 42    8    6   44 39    2   71   82 37
    0   33   73 27   -1   81   76 35 == H,   1,  19 ==    3  112   81 41
    1   81  116 22    0  147  152 14   -8   39   81 44    4   94  134 24
    2   60   50 35    1   81    0 43   -7   33   72 44    5   25   98 32
    3   70    0 47    2   87  128 25   -6   43    0 43    6   53   77 40
 == H,   8,  17 ==    3  159  121 30   -5  168  150 35    7   28    0 46
   -1   68   61 35    4   10    0 44   -4   58    0 41 == H,   5,  19 ==
    0   25   66 31    5   39   91 40   -3   45   22 46   -5   63    0 41
    1   68   71 35    6   44    0 46   -2   39   29 44   -4   46    0 43
 == H,   0,  18 ==    7   31   96 35   -1   97  160 24   -3   74   65 36
    0   55    0 35    8   34    0 45    0   75    0 40   -2  112   96 30
    1   49   84 44 == H,   4,  18 ==    1   97  118 36   -1   39    0 41
    2  134  102 52   -7   48    0 45    2   39   82 43    0   95  120 16
    3  170  193 14   -6  149  163 23    3   45  132 28    1   39   73 38
    4   37   59 37   -5   88   76 41    4   57  176 20    2  112   63 39
    5  184  190 20   -4   42   86 34    5  168  133 34    3   74  122 21
    6   16   38 37   -3   80   91 34    6   43   89 47    4   46   50 38
    7  158  184 18   -2  204  153 21    7   33   81 44    5   63   71 39
    8   55    0 37   -1   58   94 28    8   39   70 45 == H,   6,  19 ==
    9   28   80 41    0   94   94 22 == H,   2,  19 ==   -4    6  108 21
 == H,   1,  18 ==    1   58    0 47   -8   46    0 44   -3   88   79 32
   -8   60   98 38    2  204  210 17   -7   34   32 44   -2   42   38 34
   -7  124  132 34    3   80   44 41   -6   28   72 44   -1   55   54 35
   -6   60    0 42    4   42    0 44   -5   90   97 43    0   88  100 36
   -5  147  122 34    5   88    0 46   -4  184  166 26    1   55  122 20
   -4  109  116 35    6  149  150 23   -3   89   79 42    2   42   91 29
   -3  162  152 26    7   48    0 46   -2  113  134 33    3   88   78 35
   -2   55    0 43 == H,   5,  18 ==   -1  116  120 29    4    6    0 50
   -1  152  124 31   -6   79   99 35    0  158  180 14 == H,   0,  20 ==
    0  256  249 34   -5   60   29 40    1  116  124 29    0  268  232 31
    1  152  128 31   -4   47   81 34    2  113   96 43    1   42    0 38
    2   55   99 36   -3   62    0 43    3   89  120 33    2   76   69 37
    3  162  139 27   -2   36   38 36    4  184  204 22    3  148  153 21
    4  109   81 44   -1  101   99 25    5   90  105 38    4  156  154 22
    5  148  202 19    0   54   62 34    6   28   88 39    5  140  146 22
    6   60   76 43    1  101   93 32    7   35    0 45    6   14  105 54
    7  124  121 34    2   36  114 24    8   46    0 46    7  198  197 31
    8   60    0 44    3   62   73 37 == H,   3,  19 ==    8   16   50 39
 == H,   2,  18 ==    4   47    0 47   -7   36   47 44 == H,   1,  20 ==
   -8   88  119 33    5   60   75 40   -6  110  108 35   -8   61   67 47
   -7   76   73 43    6   79   52 39   -5   49   58 41   -7    7   35 47
   -6   95  124 32 == H,   6,  18 ==   -4  119    0 43   -6  149  154 33
   -5  119   97 44   -4   48   73 30   -3  210  210 20   -5   66    0 42
   -4  145  112 39   -3   56   68 34   -2   92  131 24   -4   18    0 41
   -3  187  213 17   -2   24   79 26   -1  131  146 20   -3  104  133 29
   -2  189  222 16   -1   85   46 34    0   57   67 30   -2   31    0 40
   -1  112  147 21    0    6    0 36    1  131  126 26   -1  100   35 45
    0   22   62 34    1   85   93 29    2   92  136 24    0   45   91 46
    1  112  134 24    2   24   93 27    3  210  203 19    1  100   98 42
    2  189  170 21    3   56   54 35    4  119  116 31    2   31   59 43
    3  188  108 39    4   48    0 46    5   49    0 44    3  104  103 39
    4  145  138 30 == H,   7,  18 ==    6  110  133 27    4   18    0 45
```


m1471-20

```
 5   66   155 25   -3   78    0 44   -4   13    0 41 == H,   3,  22 ==
 6  149   156 26   -2   44   48 34   -3   14    0 42   -6   20   0 44
 7    7    0 44   -1   45   48 35   -2  111  119 26   -5   87  40 44
 8   61    0 48    0   64   92 35   -1   43   98 29   -4   67   0 45
 H,   2,  20 ==    1   45    0 46    0   40   58 33   -3   36  76 43
-7   81   59 47    2   45    0 49    1   43   60 39   -2  124 135 25
-6   61    0 44    3   79  118 22    2  111  131 24   -1   76  81 39
-5  167  177 22 == H,   0,  21 ==    3   14   70 39    0   49  46 35
-4   83    0 44    1   19   31 37    4   13    0 47    1   76 106 32
-3  126  111 37    2   53   88 45    5   87   29 41    2  124 126 27
-2  153  206 18    3  104  118 26 == H,   5,  21 ==    3   36   0 47
-1  104  108 35    4  165  130 52   -4   65   79 36    4   67  66 42
 0   53   68 36    5  125  138 40   -3   27    0 41    5   87 131 28
 1  104   91 42    6   80   96 34   -2   54   40 39    6   20   0 48
 2  154  161 23    7  140  134 29   -1   81   69 39 == H,   4,  22 ==
 3  126  184 23 == H,   1,  21 ==    0   40   44 35   -5   25 129 24
 4   83  135 29   -7   18    0 42    1   81   60 39   -4   27   0 42
 5  167  160 25   -6  114  131 36    2   54    0 47   -3   70   0 42
 6   61   62 44   -5   55   63 45    3   27    0 46   -2    7   0 41
 7   81  108 36   -4  131  103 47    4   65   71 41   -1   77  75 37
 H,   3,  20 ==   -3   66   64 47 == H,   6,  21 ==    0   91  87 23
-7   30   53 42   -2  105    0 42   -1   40    0 41    1   77  34 40
-6   48    0 43   -1   22   87 44    0   58   28 34    2    7   0 46
-5   75  120 29    0  199  207 16    1   40   90 30    3   70   0 46
-4   64   61 41    1   21    0 45 == H,   0,  22 ==    4   27  68 42
-3   39   66 39    2  105   79 45    0    8    0 38    5   25  51 41
-2  117   97 32    3   67    0 47    1   94   95 35 == H,   5,  22 ==
-1  135  117 29    4  131  128 32    2  173  160 56   -3   49  59 39
 0   52   13 33    5   55   85 45    3   18   33 38   -2   78 139 19
 1  135  151 23    6  114  109 43    4   54    0 37   -1  114  96 30
 2  117  107 35    7   18   74 45    5   89   96 50    0   11  66 34
 3   39    0 44 == H,   2,  21 ==    6   25   27 38    1  114   0 49
 4   64   69 41   -7   53   35 47    7   69   33 39    2   78 100 30
 5   75   95 40   -6   60    0 44 == H,   1,  22 ==    3   49   0 48
 6   48    0 46   -5   98   66 47   -7   93   96 46 == H,   0,  23 ==
 7   30    0 46   -4  165  137 34   -6   30   75 46    1   82  57 40
 H,   4,  20 ==   -3  126  153 25   -5   36    0 43    2   69   0 39
-6   70    0 42   -2   42  114 35   -4   75  134 31    3   24  60 37
-5   90  116 28   -1  105   66 43   -3   43    0 41    4  103 130 23
-4   60   89 33    0  103  105 25   -2   44    0 44    5   86 120 27
-3   46   98 28    1  105  118 32   -1   55   31 46    6  154 177 37
-2   88   97 29    2   42    0 49    0   49   54 43 == H,   1,  23 ==
-1  118  149 19    3  126    0 47    1   55    0 46   -6   47  88 47
 0   85   91 20    4  165  181 23    2   44    0 44   -5   37   0 43
 1  118   56 40    5   98  129 31    3   43    0 44   -4   45  34 46
 2   88  125 22    6   60   22 44    4   75  150 25   -3   48  62 46
 3   46    0 45    7   53    0 48    5   36    0 44   -2   66 122 30
 4   60    0 45 == H,   3,  21 ==    6   30  101 43   -1  102  46 45
 5   90  113 30   -6   43   24 43    7   93  105 42    0  128 124 24
 6   70    0 46   -5   65   32 45 == H,   2,  22 ==    1  102 138 28
 H,   5,  20 ==   -4  134  145 25   -6   65   88 49    2   66  91 44
-5   57    0 43   -3  114  117 31   -5   71    0 44    3   48   0 45
-4   71   71 38   -2   53   86 35   -4   94   73 45    4   45  64 46
-3   14   40 37   -1   42    0 42   -3   18   50 48    5   37   0 46
-2   28   34 36    0   82   88 27   -2  128  124 29    6   47  71 45
-1   82  139 17    1   42    0 45   -1   61  100 39 == H,   2,  23 ==
 0  164  164 14    2   53   48 41    0   33   81 36   -5   91 154 28
 1   82   64 39    3  114  111 31    1   61    0 46   -4   38   0 44
 2   28   56 37    4  134  134 26    2  128  108 35   -3  156 172 23
 3   13    0 46    5   65   92 37    3   18   91 44   -2   40  46 45
 4   71    0 48    6   43  103 33    4   94  105 39   -1  126 119 31
 5   57   40 40 == H,   4,  21 ==    5   71  103 42    0   79  85 28
 H,   6,  20 ==   -5   87   81 43    6   65   32 46    1  126  97 44
```



```
   2   40   22 45   -3   33    0 43    2   32    0 46
   3  156  167 24   -2   56   46 42 == H,   0,  27 ==
   4   38  116 33   -1   29    0 43    1   18    0 37
   5   91   78 48    0   10   41 37 == H,   1,  27 ==
== H,   3,  23 ==    1   29    0 46    0   33   69 41
  -5   63   86 44    2   56    0 48
  -4   71   46 43    3   33   29 43
  -3   22   44 41    4   33   82 43
  -2   55   91 34 == H,   4,  24 ==
  -1   56   97 33   -2   26    0 42
   0   55   16 36   -1   52   65 40
   1   56    0 46    0   38   73 32
   2   54    0 46    1   52    0 47
   3   22    0 48    2   26    0 47
   4   71   67 43 == H,   0,  25 ==
   5   63   44 43    1   93   25 39
== H,   4,  23 ==    2   82  124 39
  -4   31    0 44    3   22    0 38
  -3   38   76 40    4   12   83 39
  -2   14    0 44 == H,   1,  25 ==
  -1   30    0 41   -4   65    0 47
   0    2   51 33   -3    2   86 47
   1   30   60 39   -2   49  100 41
   2   14   72 41   -1   23    0 42
   3   38   49 40    0   50   65 39
   4   31    0 48    1   23    0 47
== H,   5,  23 ==    2   49    0 48
  -1   53    0 42    3    2    0 47
   0   96   96 22    4   65  103 43
   1   53   71 39 == H,   2,  25 ==
== H,   0,  24 ==   -4   73   35 46
   0   92   96 44   -3   44  116 34
   1   56   86 44   -2   23   82 44
   2   58   83 37   -1   50    0 43
   3  103   76 39    0   82   59 38
   4   12   55 39    1   50   81 44
   5   41   59 41    2   23   98 39
== H,   1,  24 ==    3   44   49 45
  -5   27   26 45    4   72   57 47
  -4   57   35 46 == H,   3,  25 ==
  -3   58  106 41   -2   23    0 43
  -2   69   41 46   -1   28    0 41
  -1   10   32 45    0    9   80 29
   0   57   58 39    1   28   84 41
   1   10    0 47    2   23   36 41
   2   69    0 46 == H,   0,  26 ==
   3   58  123 33    0    8   53 39
   4   57  103 39    1   62   61 40
   5   27    0 46    2   36   64 39
== H,   2,  24 ==    3    4   70 39
  -5   99  129 34 == H,   1,  26 ==
  -4   71    0 43   -3   50    0 44
  -3   37  103 40   -2   28    0 45
  -2   80   87 44   -1   50    0 43
  -1   53   72 46    0   12  108 28
   0   16   85 37    1   50  125 33
   1   53    0 47    2   28   83 45
   2   80   61 44    3   50   78 44
   3   37   82 46 == H,   2,  26 ==
   4   71    0 48   -2   32   98 39
   5   99   73 46   -1   24    0 44
== H,   3,  24 ==    0   17  106 25
  -4   34   24 43    1   24   32 46
```