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At each node of the tree, the left child is the minimum value in the right subtree, and the right child is the maximum value in the left subtree.

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67-8'(&+,'5(1|6|5(6(\$5&+|+263,7\$|/|,6|\$|5(6(\$5&+||75(\$70(17||\$1'|
('8&\$7,21|&(17(5||7+(|0,66,21|2)|67||-8'(&+,'5(1|6|5(6(\$5&+|+263,7\$|/
,6|72|\$|9\$1&|&85(6|\$|\$1'|0(\$16|2)|35(9(17,21||)25|3(|,\$75,&
&\$7\$67523+,&|',6|(\$6(6|7+528*+|5(6(\$5&+|\$1'|75(\$70(17||&216,67(17|:,7+

1 Bag[ifc][me]_I g_rgrt [ic_qc]am beaqd er[im]k _I c[ig]l gbs_I r[if] l ecq[il] mu [il]am be arq[il] I vihpmp_k [pct]gicq>>>>>>>>>

2 Bcqqgpc [f c]_mp_1 g_rgrl % [h]prep_k [k]c[gic][L]a[r]nk n[jgf k cl]rq[h]q[c]_af [h]q[h]q[f sc]_pecq[h]prep_k [k]c[t]gicq[L]q[k c_q]peb[k]v[L]vncl qcq] Qcangt [3. / & 2] [L] b[3. / & 2] [m]_1 g_rgrl q[c]_scgq[b]m[x]cn npq[f c]_k ns l r[m]q p_l rq[L]b[L]ns_rgrl q[m]mf cprf[h c]mr_[L]vncl qcq[L] b] q[c]_scgq[b]m[x]cn npq[f c]_k ns l r[m]q p_l rq[L]b[L]ns_rgrl q[m]mf cprf[h c]mr_[L]vncl qcq[L] b]

2. & nbc@ 357, (17) + \$50 7+(263,7\$ / 3529, '(' 13\$7, (17) '\$<6 2) & \$50
'85, 1* 7+(<(\$5) 285 %21(0\$552, 75\$163 / \$17\$7, 21 352*5\$0 \$& 2817('
) 25 25 2) 7+26(, 13\$7, (17) '\$<6 3\$7, (176) 0\$'() & , 1, &
9, 6, 76 '85, 1* 7+(<(\$5)

26 & subq [label quo] g subq [label quo] dev else []
 5(6(\$5+7+(855(17)*6,&6,(1&((1\$1)&/,1,&\$1)5(6(\$5+7+7+(
 +263,7\$/1,1&8'(6,25,1)*1*(1(7+(5\$3<1&+(027+(5\$3<17+(%,2&+(0,675<
 2)(1250\$/1\$1)&1&(5286&((/6)5\$,#7,21,75(\$70(17)%/22',6(\$6(6)
 5(6,67\$1&((72)7+(5\$3<19,586(6)+5(',\$75<',6(\$6(6),1)/8(1-\$
 3(',\$75,&\$,'6,\$1'3+<6,2/2*,&\$/1())(&76(2)&\$7967523+,&1//1(66(6)
 7+(1+263,7\$/1\$1:5\$176(72)2876,'(\$*(1&,6)

2a ~~Ansatz~~ ~~Rechnung~~ ~~Ergebnis~~ ~~Rechenweg~~ ~~Rechenschritt~~
('8&\$7,21\$)75\$,1,1*[\$1]&20081,7<6(59,&(6[\$6)3\$57[2])76(['8&\$7,21\$])
0,66,21[7+([+263,7\$/[3529,('6[\$1],17(51\$7,21\$/[2875(\$&+[352*5\$0])7+
0,66,21[2])7+([,17(51\$7,21\$/[2875(\$&+[352*5\$0],23[,6]72],03529([7+
6859,9\$/[5\$7(6[2)]&+,('5(1[,7+[\$1&('5[\$1')27+(\$5&\$7\$67523+,&[,6(\$6(6
:25':,('[,7+([,23[\$&&203/,6+(6[7+,6[\$4<6+\$5,1*[,12:/('*'[,7(&+12/2*<
\$1'[25*\$1,-\$7,21\$/[6,,/6[,03/(0(17,1*[1[,[\$3352\$&+[6]72]75(\$7
30',\$75,&[\$1&('5[*/2%\$/<[\$1'*([15\$7,1*[17(51\$7,21\$/[1(7:25,6
&200,77('72](\$5',&\$7,1*[\$1&(\$1(5[,1[\$4+,[('5(1[,7+6([,1,7,\$7,9(6[\$5)
63(\$5+(\$'('[\$467[,8*([,3(576[,+2[,25[,&/26(/4[,7+]+(\$/7+&\$5(
352)(66,21\$/[6[\$7]285]3\$571(5[6,7(6]

26] Mrl c [sh pse p_k [hcp t gco] [Bc qggg c] [Daf c bs jc] M.

1

[dove ci sono](#) [di siti di apprendimento](#)

2c] Run [here you will see a checkmark]

N_p[G] Af cai jgr[nd]Pcosgcb|Qaf cbsjcq|

N_p[G] Af cai jgr[m]PcosgcbQaf cbasicj[i]hnb[i]

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02b	
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03a	
03b	
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06a	
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13a	
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Qr_rck cl rq[Pce_pb\] e[Mrf cp]XP Q[Dg]t[e q]_L b[R_v]A nk njg l ac] Af cal [q]Daf cbs p[Mj]n r_d q]_l [qgn m] q[ms] mc[jm] l vja cts [fr q]N_p]||

Af ca i **[REDACTED]** cbsicMian r_@g₁ legnnt qclmli mc|ml l vld cbl Rign gT G

Qcargui [P] Ent cd g e [Onrbw] l b [K] l _eck cl r

Qc-aqmt **10** Nm-aqd Nm-ndm n hkl-kn-nm-hg (n hkl-ni-nd) i g-cuh-hd) kcd - l-shb-kn/hf h-pho-lit/s

Ocangrl [A,Bgajmospc]

- /5 Jgr||fc||gr_rcq||gf ||t gf ||kmv||e||tg||Dmk ||7. ||g||ce||gb||m||c||tgc|| 71||
/6 Qcang||4'. 2||cosgcq||l||me_1 g_||grt||m||k||c||tgc||Dmk q||. 01||m||. 02||m||nn||g_e||c||7. 1||b||7. 4||Qcang||B. / & 'd'q||m||j||t_a||c||
dm||hs||e||g||l||qnc||grt||3||bg||rc||mu||ws||k||bc||f||cq||t_d||e||c||Afca||L||f||1_||nn||w||
: Mu||l||c||eqgc|| ?||mf||cp||c||ce||eqgc|| :|| Smrt||cosgcqr|| Mf||cp||r||f||d||b||ly||b||+||c|| ||
/7 Bcaggc||l||Qaf||cbs||c||M||uf||fr||c||g||b||g||m|| nu||f||c||me_1 g_||grt||k||bc||q||n||c||g||e||brask||c||x||j||m||d||g||r||m||rcpcqr||h||mgav||l||b||q||_||aq||
qr||rc||c||q||t_d||e||c||m||f||c||h||s||g||b||g||e||f||c||l||v||c||_||
0. || Qr||rc||f||c|| _||k||c|| b||b||g||r|| l||b||c||j||fr||m||c||s||k||e||c||m||f||c||h||c||p||n||l||f||n||h||m||q||q||c||f||c||me_1 g_||grt||%||m||n||q||l||b||p||am||b||f||: ||
6+8521||+||1'5 , ||

Qcargit [O]B bcncl bcl r|Ami rp_armpq

/ [] Ark n[rcf]t[grf]-[c]o[th]w[n]s[pt]-[c]l[grf] cq[n]m[k] ncl q-[c]b[!] b[encl] b[c]t [!] m[t] q[p]a[m]p[!] r[!]p[!]a[c]g[c]b[!]k np[!]t[!]_1[!] / [n]j[n]k ncl q-[c]gt [dark] r[c]h[p]e_1q-[c]rgt [P]cn[r]p[!]n[k] ncl q-[c]rgt [th]t[!]_1[c]l[!] j[c]t b-[c]t w[c]t g[b]t e-[c]t g[b]t q[g]t q[d]t h[c]t c[m]e_1q-[c]rgt [th]t w[c]t p[!]

L_k c_l b[es q] cq[bb]e q]	Bcq gngt[m[cc]g cq]	Airk ncl q_ngt[
1/ , 17&2//&		
11111+, / / 6+, 5(&, 5&/ () 0 (0 3+, 6(71111111	* (1 (5 \$ / & 21675 \$ & 725	1111111111
% / - & 216758 & 7, 216 (59, & (611111113 (\$ 2 ' <		
3/ \$ & (68, 7(111111110 (0 3+, 6(71111111	* (1 (5 \$ / & 21675 \$ & 725	1111111111
0 (7 + 2', 67114 (\$ / 74 & \$ 50 (0 (0 3+, 6(
11111181, 2111\$ 9 (0 (0 3+, 6(71111111	0 (, & \$ / 6 (59, & (6(1111111111
& (51 (5 & 25325 \$ 7, 2111111152 &, & 5 ((.)		
3 \$ 5, : \$ < 0 (, \$ 16 \$ 6 &, 7 < 0 21111111	\$ 2168 / 7, 1 * 6 (59, & (6(1111111111
81, 9 (56, 7 < 12) 7 (11 (66 (() + (\$ / 74 6 &, (1 & ((& 75)		
11116287 + ' 81 / \$ 3 1167 (111111110 (0 3+, 6(71111111	0 (, & \$ / 6 (59, & (6(1111111111
0 (Rm _ l sk ecq[bb]bcncl bcl [jnt rcp ampp] a s b g e [es r] m[cc]g cb[mm]f mcg [cc]b[cc]l entc [ut n]ecq cb[k mpc]f_1 ()		
* / .. * [m]ank ncl q_ngt [bk] hpe [lg] q_ngt [z] ()	1111	

N_p[TG] Ocart P, I Metz cpc[Begamps[Rpaqccel] cv[Ck njmccq][I b]F qf cq[Ank ncl q_reb[Dk njmccq]] i hnbz + 8

8'	80'	8A1	81	8C1	8D'
L_kc[LI b[jgc]	?tcp_ecd	Nmaggrl	Pcnmp_ejc	Pcnmp_ejc	Oqrk_rcb
	f ns p[]	def_cai [L_iHt_rInnjw]	ank ncl q_rgnt []	ank ncl q_rgnt []	_k ns l (ml
	ncp[]		qmk []	qmk [je]_rcb[]	mf c[]
	ucc[]		rf c[]	me_l g_rgnt q[]	ank ncl q_rgnt []
	dgr[L v[]		8U-B/-77-KGA[]	8U-B/-77-KGA[]	dgrk [f c[]
	f ns p[dng]				me_l g_rgnt []
	pj_icb[]				_l b[jc]_icb[]
	me_l g_rgnt q[]				me_l g_rgnt q[]
	ccjnu[]				
	jgc[]				
52%577002/, 107(64[]					
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927, 1*' , 5(&725					
721<7+20\$6[]					
927, 1*' , 5(&725					
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-\$0(651'2:1, 1*					
35(6, '(17\$1'&(2[]					

For JmN_p[TG] Ocart P, I dca

N_p G Qr_rck cl r md Dsl argnl _j Qv n cl qcg

MJ mā hū + i gū hū - + i gū hū la hē nō hō o nō i gū i gū i gū hū nō hō o nō i gū i gū i gū hū

Afcsl [m]Qaf cbs[cl]Mamf r_d q[ll]Jcon m qc[m] mc[m] I vld cl[ll]I g[N_g][g]

Algebra I Worksheets - Chapter 10: Linear Functions

N_pIV@Pcam!aqqrgrl!mnlcr?qqcrq

Af ca i [m]Ca f c b s [c] [M]s n t r _g q [l] [s]gn nt qc [ln]l mc [ln]l l wld c [l] [f] g [N]_p [V]g

/	Rnr_ ptcl sc k sq cos_ N_p @ ans k l R^* d c 0	/	
0	Rnr_ vncl qc k sq cos_ N_p @ ans k l R^* d c 0	0	
1	Ptcl sc cq vncl qc k sq cos_ N_p @ ans k l R^* d c 0	1	
2	Lcr qc q n @ b e _L aco r c ed g e n c g k s q cos_ N_p M d c 1 ans k l R^*	2	
3	Lcr b pc gcb e g q m qc n b t cq k c q	3	
4	Brl_ rb pt gca L b q p h d e g q	4	
5	Gtc q k c vncl qc	5	
6	Nrm h c g b bh q k c q	6	
7	Mrc f eco k c l q q r o m g b r _ aco t v n j g l Qaf cbs p M	7	
/.	Lcr qc q n @ b e _L aco r c b m c p A nk g c d cq l f ps ef Y k sq cos_ N_p M d c 1 ans k l R^*	/	

N_p VGDH I agliOr rek cl rgI I bP en mre e

Af en iD-Pakke kan man få god læring ved hjælp af både teknologi og personlig engagement.

Qaf cbs[cl? [Dm\k [7. Im\77. 4x]b./2 ,1&]

N_pr[G] Qsnnnmp[Qaf cbsjc[dhp]Mpe_1 gr_rgrt q[Bcqpg cb[g [Qcargm d]/5. & '&'& 'q' [L b]/5. & '&'& 'q'

Amk njrc[m] y[.]ws [m]ca i cb[.]f c[.]m[m]l d[.]cb[.]f[.]m[.]s[.]l[.]N_p[.]l[.]t[.]f[.]c[.]mpe_l g[.]r[.]n[.]l[.]d[.]g[.]c[.]b[.]m[.]f[.]s[.]l[.]g[.]f[.]l[.]b[.]c[.]p[.]N_p[.]l[.]t[.]f[.]c[.]mpe_l g[.]r[.]n[.]l[.]d[.]g[.]p[.]m[.]s[.]g[.]f[.]l[.]b[.]c[.]f[.]c[.]c[.]q[.]g[.]p[.]b[.]c[.]c[.]j[.]n[.]t[.]f[.]j[.]c[.]q[.]m[.]k[.]n[.]p[.]c[.]N_p[.]l[.]t[.]

Qcangri ? , Ns' ja Qsnmp

Ocarin@Rm1.Qsnnmr

A job in the outdoors. The freedom!

Qcarg1 |A|Amk nsr_rgr1 |md|Ns' jg|Qsn nmp|Ncpacl r_ec

N_p[6] Qsn npr[Qaf cbsjc[drp]Mpe_1 gr_rgrf c[B cqapg cb[d]Qcargt [3, 7& '80]

Rank n|c|t|t|v|w|s|l|f|c|a|c|b|t|f|c|t|m|t|t|t|c|t|m|N_p|t|t|t|t|f|c|m|p|e|_g_rnf|t|d|c|b|m|s|_g_nf|t|b|c|N_p|t|t|t|t|f|c|m|p|e|_g_rnf|t|d|d|m|s|_g_nf|t|b|c|t|f|c|t|c|a|g|t|c|m|s|f|h|c|g|t|b|k|m|n|c|r|c|N_p|t|t|t|t|

Qcangri [? , Ns' ja] Osunump

Qcargil | © Rmr_ | Qsnnmp

afcaifl glemv i bigym| epc

Grant R. Watson and J. L. Strohbehn, Ph.D., are

Qsn nprg e[Mps_1 gr_rgn q]
Amk njcrc[mj]ws [f]cal cb[[l]env[mj][d]c]/[m]N_p[3]ws [f]cal cb]/[m]N_p[3]amk njcrc[Dcargn q]P
_l b[[l]b]ws [f]cal cb]/e[m]N_p[3]amk njcrc[Dcargn q]P[l]b[A][d]ws [f]cal cb]/a[m]N_p[3]nk njcrc
Qcargn q]P[l]b[l]b]ws [f]cal cb]/b[m]N_p[3]amk njcrc[Dcargn q]P[l]b[l]b]nk njcsc[N_p]T.'

Qcangri [P_1? jj]Qsnnmpqd e[Mpe_I g_rqd q

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N_p[G] Qsnmmpd e[Mos_1 or ranl cl]_n, hebo, t

Web	Lm
//1	F_a@f c m e_ g_>gt; [laacnrcb _ bgf m ant rgg>gt; [bprk _ v n g f c lm nu g e hcp m q=
	_ ?[hcp m]_ f m bgca r v m bgca r v j nt rmp [cgf c l nt c m ne crfc _ g t[hcp m q bcq grc b] t _ b a
	ccjna* f c m t cd g e _ nbv nd _ bs nnnmpc t l m e_ g_>gt; =
//2	* d k g k c k ec m _ hcp m [bcq grc b]_ a_ entc=
//3	a ? 13#_ ant rppic b l grv he _ hcp m [bcq grc b]_ a_ m Be _ entc=g ll S_nll r _ d _ d _ d _ p z_ _ dr l _ m l rc

Ocangri |O|Rwnc|GQsnnmrd e|Moe_1 gr_rgri cl

Wör	L.m.
Bg fc bgca_mpr bg_qrcqa n k ck_ec_gf g n h t c m k_mp bg_nnmpct n npe_lg_rgnt q _tc fc h_nuc dm pes_i_gv lnn g t m c car l c_q l k_hmpq n t c m p_l g_rgnt % bgc_armp n bg_qrcqa l l l c cs p e t c r_v c_p d l t d f t g t l b l p l g b q l b _bey_j i n + l a h d f n h m @ n p _6 j _ n + b ey_j p o + d / j i h t f + l b _l a f h d f n h m l n p c n l b _l a h f n h b f + b i i l b n l h _bey_j i n + l a h f n h + n /t c l b q l b _l i q _l b l j j i d f h + i l g i p _t t _i l b l l b n n _n b _l l f f f j n + l g i b l b _b ey_j i n + l i l a h f n h b f h b t d i h + c n h l /l _n l q n h b f f s l j i l b _l i q _l b l l b n l b _l f l s / /	/
Bg fc m n l g_rgnt m c p c m l t c c cd n l v b nn n pc b n p e_l g_rgnt n t c g t _ t fc l nn n pc b m n l g_rgnt d t _t n m c p c b q n n pc g c b f m p n n p d e l n p e_l g_rgnt = d l s_n l l r j f d b l N p l g b q _ t p t b b b l _h _d / l a f l b b _l o j i r n l b b _l n j i n + l a h f n h m l t d j _ n + d n j _ p n + d / i h t f + l b _b ey_j i l b b l a h f n h	q

Ocangri | A. Rwn c | GQsn nmpd e | Mpé_1 g_rnd q

/[] U cpc[] k _hmgv[] n[] f c [] hpe _l g_ rgrt %[] b gca mpa[] h[] p qrocc[] b s g e[] f c[] v[] jc _s[] lqmt[] k _hmgv[] h[] f c[] b gca mpa[] m[] p qrocc[] h[] s _af [h[] f c [] hpe _l g_ rgrt %[] qsnm npccb[] mpe _l g_ rgrt qj = [p[] h[] d[] _nj / d[] _ld[] N _pln @ bi q] i hni d[] i lg / h/a_g _hnl dnb _hng j i inbal l/a/hd/ ni h/lq / nfb_mn + lnb_hng _] i inbal lnb /n) i hni #_+ i lg / h/a_+ i db _bsi / i /n + i /a/bt /ni b/tw]

Oc a r g n l B , R w n c [G O s n n m p d e] M p e _ 1 q _ r g n l q

Wd	Lm
/[] B@jfc mz_l g_rgt h_pnt gcb n@_af m@q jann mpcb mz_l g_rgt q ev@f c _qr b_v@nf c _qf k_nt nf m@f c mz_l g_rgt % v c_p k L u grc mpc bc_qaqg_d e hfc wnc l b k_ns r m@ss nn np hpt gcb bs e t f ch_gmt_v vc_p 0 L mn v@nf f c Dmjk ?7. f _r u_q k mq jeacl v@f gcb _q qf f c b_rc m mgt_rgt L b u km g q hd f c mz_l g_rgt % e ntc p g e bnask c sq btt a nt f c b_rc hd mgt_rgt f n f c cvrc f m hpct gmsq f hpt gcb =	/[]
d) Ucp l v@nf f c mz_l g_rgt % m@q c gr bgca_mpr n s q rcq egf c s l nn m c b n q c a c b v@f c q nn mpcb mz_l g_rgt & l m@t b c d e n f c b nt cd q e mbv hd l jann mpcb mz_l g_rgt - L b H d L r f ch b N_p rc bi q rb l a hd ni h f chr ch z f f m l h i hthoi onq i tech l f ni hnb q atthb l ney j i in + l a h c ni h m	q
1) C@jfc_qmt n@ f c b c _rgt qf g bcqa_gcb c 20 bgb f c mz_l g_rgt % jann mpcb mz_l g_rgt q _t c L qgl g@_l r n c c f t c mz_l g_rgt % t cqk c t h mpc o l b l logcard e f c q n f c mz_l g_rgt % g ank c m l opc o L L b c b s q e f f c _v c c_p p l s_n l -n c _l b N_p rc b l f b l a f hd ni h l m j i in + l a h c ni h m f s + l l b b a t z	1

Qcargrl [C] [Rwnc] [G] [Dsl argrl _ j] [WG] [rcap_rcb] [Qsnmmpd] [el] [Mpe_1 gr_rgrl q

	Węg	Lm
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Qaf cbsjcdP [8Dpk [77.]np[77. +CX[D. /2], 1&]]

N_p[1] Rwn c[6] nf +Dsl argt _jw[6rcp_rcb[3. 7&]Qsn nmpd e[Mpe_l g_rgt q]

/[] Af ca i l c p[6]f c[ns_p_l g_rgt b_rgt b[fc[6rcp_rcb[3. 7&]Qsn nmpd e[Mpe_l g_rgt q]] mfc[6Rwn c[6] nf +Dsl argt _jw[6rcp_rcb[3. 7&]Qsn nmpd e[Mpe_l g_rgt q]]

Qargt P[1]P[blsqrcb], cr@ank c[]

& [NgrdVc_d]

As gel {Nc_d
dnrgt_j}

/[] Lcr[l]t np+cpk [a_ng_je_é]	/[]
0[] Pcant cpcd[mh gnwc_dggnps rgt q]	0[]
1[] Mrlc [b]p[6] amk c[6cc[6]qrsargt q]	1[]
2[] ?bb[j] cd[6]f psef[1]	2[]
3[] Bcn[6]ag_rgt [l b]bcnjcrgt [l]	3[]
4[] Nmpgt [n]mcp_rgt e[cvnl qcjh_d][m] as gcb[6]h[6]pba[6]gt [m] amj[6]argt [n]ep[6]ank c[m]d[6]k_l_eck cl_r[6]mt qc_p_gnt [m] k_d[6]cl_l ac[6]p[6]pmcpv[6]cjb[6]h[6]p[6]bs argt [m]ank c[6cc[6]qrsargt q]	4[]
5[] Mrlc [b]vnc[6]qc[6cc[6]qrsargt q]	5[]
6[] ?blsqrcb[6]cr[6]ank c[6]p[6]ap[6]id[6]cd[6]l b[6]dark[6]c[6]l	6[]

Qargt [Q][K g sk]P[ppcr]P[k_msl r]

& [NgrdVc_d]

As gel {Nc_d
dnrgt_j}

/[] ?eepe_rc[6]gk_p[6]_sc[6]t[6]sc[6]h[6]l[6] nf +evck nrreqc[6]qqrc[6]cc[6] d[6]qrsargt q[6]nf[6]vle[6]dm[6]qc[6]q[6]c[6]bm[6]e[6]m[6]c[6]p[6]	
1[] ?tcp[6]ek[6]nf[6]jw[6]qf[6]l[6]l[6]ac[6]	/1[]
a[] D[6]gk_p[6]_sc[6]t[6]sc[6]h[6]l[6] nf +evck nrreqc[6]qqrc[6]	/a[]
b[] Rmr [6]bb[6]cd[6]l[6]e[6]l[6]b[6]a[6]	/b[]
c[] Bgpmel [6]gk[6]cd[6]j[6]m[6]ec[6]m[6]mfc[6] d[6]arm[6]cvn[6]g[6]b[6]cor[6]q[6]N_p[6]Tc[6]	
0[] ?aosqgt [6]bce[6]cbl[6]cq[6]rnja_e[6]h[6] nf +evck nrreqc[6]qqrc[6]	0[]
1[] Qs[6]ap[6]a[6]c[6]bm[6]k[6]c[6]b[6]	1[]
2[] A_qf [6]book[6]ct[6]cjb[6]h[6]evck[6]nrreqc[6]qqrc[6] -0# [6]nf[6]c[6]bm[6]e[6]c[6]k[6]m[6]l[6]r[6] qc[6]qrsargt q[6]	2[]
3[] Lcr[6]sc[6]h[6] nf +evck nrreqc[6]qqrc[6]os[6]ere[6]ar[6]c[6]bm[6]k[6]c[6]l[6]	3[]
4[] Ks[6]jngy[6]dc[6]lev[6]13[6]	4[]
5[] Pcant cpcd[mh gnwc_dggnps rgt q]	5[]
6[] K g sk]P[ppcr]P[k_msl r]P[bb]a[6]c[6]h[6]cd[6]c[6]	6[]

Qargt [A][B]ggps sr_ejc]P[k_msl r]

As gel {Nc_d

/[] ?blsqrcb[6]cr[6]ank c[6]h[6]gnd[6]c[6]dark[6]Qargt P[6]a[6]c[6]Am[6]k[6]l[6]	/[]
0[] Cl_rcg[6]3# [6]id[6]c[6]	0[]
1[] Kd[6]sk [6]qqr[6]k[6]n[6]l[6]h[6]gnd[6]c[6]dark[6]Qargt P[6]a[6]c[6]Am[6]k[6]l[6]	1[]
2[] Cl_rcg[6]e[6]rcg[6]a[6]c[6]id[6]c[6]	2[]
3[] Gark c[6]v[6]k[6]nrqcb[6]h[6]m[6]c[6]	3[]
4[] Bggps sr_ejc]P[k_msl r]Qs[6]ap[6]a[6]c[6]bm[6]k[6]c[6]l[6]j[6]cq[6]hs[6]clear[6]nf ck[6]cpcd[6]av[6]f[6]k[6]n[6]p[6]f[6]b[6]ea[6]q[6]m[6]cc[6]q[6]rs[6]argt q[6]	4[]
5[] Af ca i l c p[6]f c[6]as[6]gel r[6]c[6]d[6]f c[6]h[6]p[6]e[6]l g[6]rgt %[6]p[6]p[6]l[6]q[6] nf +sl[6]argt _jw[6]rcp[6]rcb[6]Rwn[6]Qsn nmpd e[6]mpe_l g[6]rgt [6]q[6] q[6]rs[6]argt q[6]	

Qaf cbsjcdP [8Dpk [77.]np[77. +CX[D. /2]

N_p[1] Rwn c[6]_ml +Dsl arg1 _jw[Grcop_rcb[3, 7& '1] Qsn nnmpd e[Mpa_1 g_rgnl clj_i hato_+]

Qcarg1 [B][B grpp srgt q]

Asppd r[W, g]

/] ?k msl iq[h_@]m[gnnmpcb[mg_1 g_sgt q]rfl_aank_njgt [evck n[r]hsprnqcc]

0] ?k msl iq[h_@]m[hcpdhpk [a@] g@f_r]bgca_tv[b]pfc@vck n[hs p]mpcq[m]gnnnmpcb[mg_1 g_sgt q]

1] ?bk_d grpp t[c]vnc1 qccq[h_@]rfl_aank_njgt [evck n[hs p]mpcq[m]gnnnmpcb[mg_1 g_sgt q]

2] ?k msl iq[h_@]m]aos g@cvck n[r]qccq[ggcrq]

3] Os_@b[bc+gpc] k_msl iq[b]pm[PC]_nnpt_@]osgb[b]

4] Mrc_@grpp srgt q]bcqa_gcc[N_p[TG]Occ[q]qra_ariq q]

5] Rmr_@]s_@]grpp srgt q]bb[cl]cq] [f]ps et [4.]

6] Bgrpp_sgt q]m]rc1 rgc]@]nnmpcb[mg_1 g_rgnl q]m]f g@f[r]c[mg_1 g_rgnl [a]qcnrl q]c]

dpntpc@bc@q]l [N_p[TG]Occ[q]qra_ariq q]

7] Bgrpp_r_ejc[k_msl r]m[D, / 2]dark [Oca gmt[A]d]c[4]

/] J@c[5] k_msl f]b]pccb[ev]@c]Y] k_msl d]

Ag] Qvacop[B grpp srgt q]@]ppcargt q]	Ag] Qvacop[B grpp srgt q] Npc+0, / 2]	Ag] SI bc@bgrpp srgt q] Npc+0, / 2]	Ag] Bgrpp sr_ejc] ?k msl r]qg]0, / 2]
/] Bgrpp_r_ejc[k_msl r]m[D, / 2]dark [Oca gmt[A]d]c[4]			
0] SI bc@bgrpp srgt q]@] v]h@]c_m]h@]m@]r]0, / 2]			
apc_qnt_ejc[s]_soc]osgb[b]ecc]qra_ariq q]			
1] Qvacop[B grpp_sgt q]@]ppntcp]@] v]h]m[D, / 2]			
/]			
t]			
a]			
b]			
c] Dark [D, / 1]			
d] Rmr_@]m[d]cq]@]f]pset[5]			
e] ?nnjg[b]m]b]bc@bgrpp_sgt q]m]h@]m@]c_@]			
f] ?nnjg[b]m]b] / 2]bgrppsr_ejc[k_msl r]			
g] A_ppntc@dark [D, / 7] m]nnjg[b]bcc]qra_ariq q]			
h] Pck_d bcp[Oca erp_ar]d co]@]f 1] l b]@]dark [D]			
2] Bgrpp_sgt q]m]b] / 2]pck [Oca g1]@]			
j] c[5] *			
l] ?nnjg[b]m]b]bc@bgrpp_sgt q]m]h@]m@]c_@]			
m] ?nnjg[b]m]b] / 2]bgrppsr_ejc[k_msl r]			
n] Pck_d bcp[Oca erp_ar]d co]2] l b]2]e]pck [2.]			
o] Pck_d g[e]b]bc@bgrpp_sgt q]m]h@]m@]c_@]h@]m]b] / 2]@]			
_l w]Oca erp_ar]d co]e] l b]2]_dark [b]c]@]R@ k_msl r]			
e] g]rc]f] l]kcpn]bcc]qra_ariq q]			
4] Pck_d g[e]b]bc@bgrpp_sgt q]m]b] / 2]Oca erp_ar]d co]f]			
_l b]2]e]pck [b]c]@]R@ k_msl r]p]c_@]f _l]kcpn]bcc]			
d] qra_ariq q]			
5] Qvacop[B grpp srgt q]@]ppntcp]m] / 3]@]bb[cl]cq]@]			
l b]2]a.]			
6] Ope_i bnu l]m[d]c[5]			
/]			
t]			
a]			
b] Qvacop]b]m[D, / 1]			
c] Qvacop]b]m[D, / 2]			

Qaf cbs jc]? [Dmjk]77. [Im]77. -Ex[10. /2 ,1&]

N_p[TG] Qsnnjck cl r_j[G] dñpk _rgf ,Nptgbc[jfc]cvn_l_igniq[cos gcb]ev[N_p[E]]c] .N_p[E]c] 5_m85e9| b[N_p[E]]c] 0.
? pñjank nrcrf[g|h_g[hm] l v|bbgmj _dñpk _rgf]Ccclq gsa ign q'.

<p>Qaf cbsjc@ Ømpk. [77. 177. +CX* nj[77. +ND Bor_pk ch[77. c[77. qmpk Ømpk _Pc[77. sc[77. qmpk</p> <p>L_k c[m]if c[77. g_rgj 67[77. -8('(&+, /'5(16[77. 5(6(\$5&+7+263,7\$/[77. ,1&[77.]</p>	<p>Qaf cbsjc[m]Am[rpj smpq z [77. rr_af [77. Drjk. [77. *Drjk. [77. +CX*[77. Drjk. [77. +ND, z [77. drjk_rgj [77. msr[Qaf cbsjc@]Ømpk [77. 177. +CX*[77. +ND' [77. b gg[77. qmpk_rgj [77. rlu u u,qq ent-drjk. 77. ></p>	<p>MK 6], m] 323 + 25</p> <p>0. / 2</p> <p>Ck njmcp[77. cl rgj[77. sk sc cp</p> <p> </p>
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Mpe_I sg_rgrl [nwncdfl cai [nti c'B

Djcpqjns8 Ocangit 8

Dmjk [77, 1m77, -cx] : 3. /& 21 [3c1rcp] sk CCP[mpg_rgnt]

305 [hrms] (m/e 191, 190)

305(h) migra_1.hse_1.g_rg

DmK 177, AD 3. / & 21 Tevecknifast reldens b. agri

3. /a/ & /ɪ/ v. eichhae ic!hs! b_reri

3. /əʊɪt/ x. eɪfθəz ə'θrəl b. nəd

Alf cal [b]ans gme_1 g_rgrt [b]amt cpob]vijfc|Ecl cpj|Ps sjc|mij|Dncaq|Ps sjc,

Ed esp_1P sje

Dmp₁ [I] g₁ g₋₁ [B] e [Dmp₁] 7. 1[7. . .] 7. . . CX [m₇ 7. . .] DQ [r₋₁] ecac ac br₁ [b₁ g₁ e [f₁ c₁] ve₋₁ p₁] m₇ g₇ q₇ [mr₇] q₇ e [f₇ 3. . .] [m₇] n₇ p₇ [k₇] k₇ m₇ cv [j₇ p₇ n₇ m₇ p₇ w₇ k₇] v₇ m₇ mp [Ank₁] j₇ c₇ [N₁ p₇] 8. 1 b₇ [Dcc₁] q₇ a₇ g₇ q₇ [m₇ b₇ c₇ k₇ d₇ e₇] [am₇] r₇ s₇ m₇ [mr₇] q₇.

OneagIP sieg

Dmg[1][re[1]g_rgrt][bcqa_gcb][bcargt][B_&_2][Dmgk][7][.][n][7].
CX[1][k_cr][fc][1][1]-# [sp_nn_mp][cqr][rf][c][ccs][rgf][q][1][tcp]
qca_griq[B_&_2][1][b][5_&_2][&_g][f][1][fc][ac][cb][af][cb][c][Dmgk][7][.][n][7].
CX[N_p][E][d][c][1][4_*][n][4][L][1][b][f][1][fc][ac][cb][Dmgk]
_1[vjri][c][am][rgs][mp][ts][p][c][fc][c_p][mr][am][rgs][griq][rf][c][c][e][rc][hd][8][1][3][...][n][9][#][hd][fc][l][k][m][r][n][Dmgk][7].
N_p][E][d][c][1][f][m][Dmgk][7].
CX[fd][c][J][Amk][nicr][N_p][d][1][b][c]

A_sgrl , ? [mpc_g_rgr] [f_r] [m_untcpb] v[f] c[Ecl cp_][Pc] [l b-m] [r cl[Dncag_][Ps] jc] [mrq] m[tic] [Daf cbs] c[D] [Dmk] [7, 17, 48] n[r] [k_sq] [l qu] c[L] L[m] [t] [N_p][3] [d] c[D] [r] [n] [Dmk] [7, 49] n[f] c[ai] [f] c] [m] [n] [d] c[F] [m] [q] [Dmk] [7, 48] n[r] [r] [q] [Dmk] [7, 17, 48] [D] [N_p][3] c[D] [m] aco[dlit] [mlk cc] d[rl] c[hd] e[co] a[oc] c1 [sq] [m] [Daf cbs] c[D] [Dmk] [7, 17, 48] .

JF2_Dm3N_incau_m1_Pebsaredi_Par11_mactacatit_d10_circusred_d10mDmDk_17_17Z_17Z_+CX1mRZ_7_4ND_Galobsid_1000mk_17Z_17Z_+CX1mRZ_4ND_180_1/2

L_k_c[m]pg_l g_rgt[]
67[]-8'(&+, /'5(165(6(\$5&+0+263, 78/0)
,1&[]

Ok n jrcr[bel rpg_lrgt[] sk ec[]]

|||||

N_p[0] Amf rpg smpo[bcc][q psa grt q'.Bqc]ben[g_rc]mngq[m]N_p[0]bbgnt _[bn_ac[y]ccbcb[]

¶1 L_m[]	¶1 L_k_c[m]bbpcqq[1 b[XON] []]	¶1 Rmr_j[amf rpg_srgt q]	¶1 Rwncjnd[amf rpg_srgt []]
	\$0(5,&1)/(%\$1(6(6<5,\$1)\$662&,\$7(')&+\$5,7,(6[],1&[] \$/6&[] 67[]-8'(&3/&(0(03+,6[]71		Nepoq[] N_wpmj[] Lmt_a_qf[] Amrk_njrcr[N_p[0]thm] lmt_a_qf[jmt rpg_srgt q.]
¶1 L_m[]	¶1 L_k_c[m]bbpcqq[1 b[XON] []]	¶1 Rmr_j[amf rpg_srgt q]	¶1 Rwncjnd[amf rpg_srgt []]
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¶1 L_m[]	¶1 L_k_c[m]bbpcqq[1 b[XON] []]	¶1 Rmr_j[amf rpg_srgt q]	¶1 Rwncjnd[amf rpg_srgt []]
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¶1 L_m[]	¶1 L_k_c[m]bbpcqq[1 b[XON] []]	¶1 Rmr_j[amf rpg_srgt q]	¶1 Rwncjnd[amf rpg_srgt []]
			Nepoq[] N_wpmj[] Lmt_a_qf[] Amrk_njrcr[N_p[0]thm] lmt_a_qf[jmt rpg_srgt q.]
¶1 L_m[]	¶1 L_k_c[m]bbpcqq[1 b[XON] []]	¶1 Rmr_j[amf rpg_srgt q]	¶1 Rwncjnd[amf rpg_srgt []]
			Nepoq[] N_wpmj[] Lmt_a_qf[] Amrk_njrcr[N_p[0]thm] lmt_a_qf[jmt rpg_srgt q.]

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N_p[0] L m1 a_qf [Npm cprw] [cc] qps sign q' [Bq] [Bm ngs_rc] [m] [Bq] [m] N_p[0] bbgen1 [Bn_ac] cc bc b.]

a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]
a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]
a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]
a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]
a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]
a_1	B_eqappngret [nd] n̄t a_qf [Inpmcpv̄g cl]	a_1 DK T[mp̄c-ord̄_rc'] &pc̄q̄ qpsargt q̄	a_1 B_rc[jpacagcb]

Qaf cbs jc]ARDmjk]77. [inf77. fex1D / 2 , 1&]

N_pj@? Ank njcrc@rf c|npe_l gr_rgrt lg|cvck nr|sl bcp|qcargt [3. / & '8'|_l b|djcb]Dmpk [3546]8|cargt |sl bcp
qcargt [3. / & ".

? Af cal
glf c[glf] e[mpc] g[rgt] [c]jnt eq[m]l [Ld]q[rcb] [p]sn[n]l b[grt] [N_p[G]]_af [Ld]q[rcb] [p]sn[n]k ck ec[glf] _k c[glb]p[glf]
cvncl qcq[l] b[glf] _p[m]va cp[glf]m evg el[cvnl bg]p[glf].

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80m c|ope_l g_rgt q|r_r|k_bc|_pargt [3. / & [p]argt [bm] m] _t c|mank njrcd_j|mrf c|@c|amjsk l q|i cju , Ocult place a rela crescerd celula cell. It onset [bf]

... que se aplica la norma de la CEE 1249/93 en el caso de la Norma.

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e_ Jecl cde[icde]k ns l r d3. # [mjecl "jmp k l &"					
a_ Rm_][mjecl bmc1 bgs sq					
b_ Eppmme[m r_v_ecl]k ns l r					
c_ Eppmme[icde]k ns l r d3. # [mjecl "Obfjmpk l &"					
d_ Eppmme[m r_v_ecl]bgs sq					

N_p[60] Ank njcrc [gl]f c[n]mpe_l g_crgnt [gl]cvck nr[s]l bcp[gc]argnt [3. / & '8' L l b[f _c]_L MR[djcb]Dmpk [3546]
&icargnt [sl bcp[gc]argnt [3. / & .]

N_p[68?]: Ank n|crc[g]rf c|mpe_l g_rgrl [g]cvck nr|sl bcp|qcargrl [3. / & '2'1qcargrl [3. / & '8'1mp|qcargrl [3. / & '8'1

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N_p[66] Ank n jrcg [g] /f c [mpo_1 g_rgr] [g] /cvck nr[s]l bcp[qcargn] [3. / & ' & ' 1[qcargn] [3. / & ' & ' 1[mp]qcargn] 3. / & ' & ' 1[1 b[g]cfg cp]&' @MRF[N_p[66? 1g cc]/[1 b[0]_pc]_1 qu cpcb] L mt [MP]& '[N_p[66? 1g au cpcb] Wg_1

N_p[G] Qsnnjck cl r_1@dmpl_rapl

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N_p[VG] P cam agg.rgrl [m]Ovncl qcq[ncp]? sbgc[b[Dg_] ag,j]Qr_rck cl rq[U gf [Ovncl qcq[ncp]Pcrsp ,]

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r_v|ac_p1||b|b|bcga|ggc|c|IN_p1[T]mu|gg|ank k s1 gv|gsgb|e|L|a|g|ggc|h|pmk|mrcb|f|c||c_|j|t|_h|f|c|/ank k s1 ggca|b|bc|g|c|q|

N_p[G] O_b[Bc' r[K cbg]_pc' \$]Amjcarg1 [Np_argicd]

Qaragil [P] [o_t]Boxer[Dvnci] op]

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N m G K L eck c l A m k n l o q l b H m l T c r a n g e

N_p[] D_aggr|6drpk _rgn[]

Oarag[] P_F mngrg|D_aggr[]

&pr[] mrc_gn|oac|brk |_pecqr|mjk _jqr[]

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ts g[e]t c[]_v[c_p] ||

L_kc|bbpcqr[pk_p]ceqg|bbpcqr|L_b[qc_c]j[ciqc]sk_ecp

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Qaf cbs jc|FRDmk 177. 10. / 2

N_p[T] D a g o w f d m k _ r a n d [y i h o o + 0]

Qarai [Q] D-ərəvɪNnɪgəd] | b[No ərgəd]

Amk nrcrl [acn p rc]Cancrl [rc]chrls af [mlrlc] mang [ld adqspcl]mrd a gqvlc nmd ellers nglarrb [N af [T]Cancrl [P]

L_k c [m] mma_1[d,a,gwvns]corrpmid agjewvpcnmprd e[espmn] 6700-810[&+, /'5(1|6]5(6(6\\$5+&+263,78]

Jg c] sk c qj[n]l[m] mng_ [d aggv[m]d c] sk c cpq[n]l[m] mng_ [d aggv[m]d c] L [d aggv[m]d c] e[pmn]k N_p[T]Dcarg1 P'6

Qaf cbsjcFIDmpk [7. D. / 2] , 16/1
N_p[1] D_aqgw[6 dmpk _rgn[1] hoto_+]

□□□□□

N_ec[3]

L_k c[m] mng_([t_agrv]_tc[hi_ac]ba[el]fc[r_v]e_c_d) p[er]c[hi]_l_aq[Logger]_ac[h_agrv]_r[8]

Bb[if c] mng_([t_agrv]_tc[hi_ac]ba[el]fc[r_v]e_c_d) p[er]c[hi]_l_aq[Logger]_ac[h_agrv]_r[8]

/ 1 Om_l_g cb[hi]_agrv[hi]_rgn[hi]_l_aq[Logger]_ac[1] b[if] fc[if] c[if] a[if] b[if] c[if] d[if] e[if] f[if] g[if] h[if] i[if] j[if] k[if] l[if] m[if] n[if] o[if] p[if] q[if] r[if] s[if] t[if] u[if] v[if] w[if] x[if] y[if] z[if] N[if]

Wed

L_m[

/ 1]]

Obcpc[hi]mtcpv[es]fc[if]c[if]DNE[1]g[if]DNE[1]k[if]a[if]k[if]m[if]o[if]s[if]t[if]p[if]r[if] _____ # 1

_1 b[if]DNE[1]k[if]g[if]a[if]k[if]m[if]o[if]s[if]t[if]p[if]r[if] _____ # 1

Gank c[if]c[if]m[if]c[if]f[if]1[if]DNE[1]bcqaggc[if]Dcargt[A]

? qqr[if]ctc[if]

Kcbg_([b] bg[cl] sv[if]

Gcp[if]la[if]pr[if]sq[if]

SI bc[if]q[if]p[if]ac[if]qr[if]sq[if]

Pcqbc[if]av[if]

Mrf c[if]bcqaggc[if]Dcargt[A]

/ 2 Om_l_g cb[if]c[if]_agrv[hi]_rgn[hi]_l_aq[Logger]_ac[1] b[if]c[if]d[if]e[if]f[if]g[if]h[if]i[if]j[if]k[if]l[if]m[if]n[if]o[if]p[if]q[if]r[if]s[if]t[if]u[if]v[if]w[if]x[if]y[if]z[if]N[if]

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/ 3 Om_l_g cb[if]c[if]k[if]crf[if]m[if]l[if]n[if]v[if]e[if]h[if]t[if]u[if]l[if]o[if]g[if]r[if]s[if]p[if]q[if]n[if]w[if]x[if]y[if]z[if]N[if]

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G[if] Wb[if] b[if]bg[if]rc[if]mu[if]c[if]mng_([t_agrv]D?N)m[if]D?N[if]nn[if]g[if]rgn[if]hpk[if]a[if]s[if]b[if]e[if]l[if]aa[if]nk[if]n[if]v[if]e[if]q[if]a[if]rgn[if]q[if]cm[if]L[if]cb[if]f[if]c[if]k[if]crf[if]m[if]l[if]n[if]v[if]e[if]h[if]t[if]u[if]l[if]o[if]g[if]r[if]s[if]p[if]q[if]n[if]w[if]x[if]y[if]z[if]N[if]

Bcqaggc[if]c[if]dmpk[if]rgn[if]fc[if]mng_([t_agrv]k[if]v[if]eo[if]ge[if]1[if]b[if]bg[if]s[if]m[if]p[if]t[if]bc[if]l[if]q[if]h[if]o[if]m[if]g[if]n[if]c[if]nn[if]g[if]rgn[if]

Bcqaggc[if]c[if]nn[if]n[if]rgn[if]e[if]brs[if]k[if]c[if]rgn[if]fc[if]mng_([t_agrv]k[if]v[if]eo[if]ge[if]1[if]b[if]bg[if]s[if]m[if]p[if]t[if]bc[if]l[if]q[if]h[if]o[if]m[if]c[if]nn[if]g[if]rgn[if]

Np[if]bc[if]f[if]c[if]nt[if]r[if]ar[if]dmpk[if]rgn[if]m[if]mng_([t_agrv]f[if]o[if]t[if]m[if]j[if]l[if]h[if]p[if]t[if]bc[if]l[if]b[if]gg[if]s[if]g[if]dmpk[if]rgn[if]_ems[if]f[if]c[if]D?N[if]b[if]D?N[if]nn[if]g[if]rgn[if]h[if]psc[if]q[if]

Np[if]bc[if]f[if]c[if]nt[if]r[if]ar[if]dmpk[if]rgn[if]m[if]mnp[if]m[if]g[if]s[if]g[if]m[if]ent[if]cd[if]r[if]le[if]lag[if]q[if]f[if]k[if]v[if]c[if]m[if]psc[if]q[if]m[if]qqgr[if]la[if]g[if]D?N[if]nn[if]g[if]rgn[if]q[if]

Mrf c[if]bcqaggc[if]Dcargt[A]

/ 4 Gaj[if]cb[if]k[if]c[if]q[if]p[if]m[if]hs[if]e[if]g[if]c[if]h[if]n[if]g[if]v[if]u[if]g[if]d[if]f[if]c[if]j[if]k[if]l[if]m[if]n[if]o[if]p[if]q[if]r[if]s[if]t[if]u[if]v[if]w[if]x[if]y[if]z[if]D?N[if]

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G[if] Wb[if] b[if]bg[if]rc[if]mu[if]c[if]mng_([t_agrv]hs[if]e[if]g[if]c[if]h[if]n[if]g[if]v[if]u[if]g[if]d[if]f[if]c[if]j[if]k[if]l[if]m[if]n[if]o[if]p[if]q[if]r[if]s[if]t[if]u[if]v[if]w[if]x[if]y[if]z[if]D?N[if]

Rfc[if]N[if]l[if]m[if]n[if]g[if]rgn[if]h[if]pk[if]l[if]o[if]g[if]c[if]v[if]t[if]d[if]e[if]c[if]h[if]l[if]o[if]c[if]e[if]g[if]h[if]pk[if]s[if]g[if]t[if]6[if]((13\$57)9[if])

Rfc[if]N[if]l[if]o[if]t[if]d[if]e[if]c[if]n[if]t[if]o[if]c[if]v[if]s[if]g[if]m[if]p[if]c[if]h[if]s[if]e[if]g[if]m[if]n[if]g[if]o[if]t[if]l[if]mng_([t_agrv]l[if]b[if]v[if]k[if]g[if])

Rfc[if]N[if]l[if]m[if]n[if]g[if]rgn[if]h[if]pk[if]l[if]o[if]t[if]d[if]e[if]c[if]n[if]t[if]o[if]c[if]v[if]s[if]g[if]m[if]p[if]c[if]h[if]s[if]e[if]g[if]m[if]n[if]g[if]o[if]t[if]l[if]mng_([t_agrv]l[if]b[if]v[if]k[if]g[if])

Rfc[if]N[if]l[if]o[if]t[if]d[if]e[if]c[if]n[if]t[if]o[if]c[if]v[if]s[if]g[if]m[if]p[if]c[if]h[if]s[if]e[if]g[if]m[if]n[if]g[if]o[if]t[if]l[if]mng_([t_agrv]l[if]b[if]v[if]k[if]g[if])

Rfc[if]N[if]l[if]o[if]t[if]d[if]e[if]c[if]n[if]t[if]o[if]c[if]v[if]s[if]g[if]m[if]p[if]c[if]h[if]s[if]e[if]g[if]m[if]n[if]g[if]o[if]t[if]l[if]mng_([t_agrv]l[if]b[if]v[if]k[if]g[if])

Lmg[if]h[if]t[if]l[if]o[if]t[if]d[if]e[if]c[if]n[if]t[if]o[if]c[if]v[if]s[if]g[if]m[if]p[if]c[if]h[if]s[if]e[if]g[if]m[if]n[if]g[if]o[if]t[if]l[if]mng_([t_agrv])

Lmg[if]b[if]ck[if]ec[if]m[if]f[if]c[if]j[if]mk[if]ks[if]l[if]gv[if]t[if]n[if]p[if]k[if]m[if]q[if]c[if]f[if]m[if]o[if]c[if]s[if]g[if]h[if]pk[if]rgn[if]

Mrf c[if]bcqaggc[if]Dcargt[A]

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/ 5 Bb[if]c[if]mng_([t_agrv]_tc[hi_ac]ba[el]fc[r_v]e_c_d) h[if]n[if]o[if]c[if]g[if]e[if]l[if]b[if]n[if]cargt[if]h[if]n[if]g[if]w[if]m[if]l[if]p[if]c[if]h[if]l[if]a[if]l[if]q[if]o[if]n[if]r[if]s[if]t[if]u[if]v[if]w[if]x[if]y[if]z[if]N[if]

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151

N_p[T] D_aigw[G chpk _rgnd h i hmbz + d

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Now I can start spec'ing what the IA cell

At $\rho_{\text{eq}} = 0$ the steady-state solution is $\rho_1 = \rho_2 = \rho_3 = \rho_4 = \frac{1}{4}$.

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11

NedT

N_p[T] D_aigw[Gchpk _rgn] [i hmo_+@

11

36', \$75. & [] + (\$74.16) []

75 \$16.7.21(2) [3] \$7. (176) 520 [3] ('. \$75. & [72] \$'8/7+] (\$/7+) &\$5([6(59. &(6

+(\$/7+0)\$./.7.(6/5(6285&(6/.192/9('

$\left(\frac{1}{6} \cdot 7 \right) - 8 \cdot \left(\frac{1}{6} + \sqrt{\frac{1}{5} \left(1 \cdot 6 \right) 5 \cdot 6 \cdot 85 + 1} + 263 \cdot 79 \right) / \left(3 \cdot 8570 \left(17 \cdot 2 \right) \right) + \left(0 \cdot 872 / 2 \right)^2 < \frac{1}{6} \cdot 7 / 1 \cdot 85$

+0.0572/2 * 11 : 9 6 21

1: **6||-5686||6 & -//& //&(12(5||67||5(+ 216||210||+67+

$\left[0, \frac{3}{2} + 3\sqrt{\frac{6}{7}}\right] \cup \left(\frac{6}{7}, \frac{6}{5}\right) \cup \left(0, \frac{16}{9}\right) \cup \left(\frac{16}{9}, \frac{9}{16}\right) \cup \left(\frac{9}{16}, \frac{16}{9}\right) \cup \left(\frac{16}{9}, \frac{6}{5}\right) \cup \left(\frac{6}{5}, \frac{3}{2} + 3\sqrt{\frac{6}{7}}\right]$

6800\\$5<□ 0(75 . & □

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$\{ \{ 1 + 69 \{ \{ 1 - 17 \} \} \{ 17 \} 3 \{ 6 \& \{ 1 / (1 + 17) (56 \{ \{ 1 + 5 (1 - 17) 0 (0 3 + 6 \{ \{ 1 + 5 (1 - 38) \} \} \} \} \} \} \} \}$

61.8 (26.1 - 74.6) (25.616) (5.722) (2.262) (2.1 - 6.75, 6.75-6.85) (6.85 - 7.15) 5.896 (6.6 - 6.75) (6.75 - 7.15)

2) 124.125.123.21-281*6:0(36)-235616.3.31('112.153.11.86')

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N_p[T] D_aggw[Gchpk _rgn1 [j i h m o_+@

Ocarat [A, Dannjek d r, [B, drpk, rgnl [BmBN_p]T]Ocarat [C, Napt_dgc]bcqaggnrl q|cos_gcb[bmBN_p]T]Ocarat [D, jd_cqD]T[H]T[1, 1de[5]tr]/T/1c/11/[3c]/4d]/6b]/7b]/D, c]/V_a]/V_b]/D[b]/M]/1]/b]/D[2, 1]/nnng_sjo[napt_dgc]cn_prc]bcqaggnrl q|mte_af]/nng]/B,aqnt]/E,aggvlen,med_e]/epsn]/bcqaggnrl_rcb]/v[t,aggvlen,med_e]/B,psn]/ccrgc]/1]/b]/mnsg]/d,agrvi]/c]/s/k,scdkrk[N_p]/T]Ocarat [F, ?-T*/?]-[2]-[1]/C]/G]/[G]/[bra, [L]/k]/[k]/[fll_mng]/[L]/[aqnt]/

68&&(66) 8//<@75\$16,7,21('72@'\$8/7&\$5() 7+(@27+(5@6(9(1@,(5@/267@72

)2//2: 083 7+((75\$16,7,21)&\$6((0\$1\$*(5)&217,18(6)72)5(\$&+(287)72)7+260

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(86.4% < 381.4% / 2) / 362.12% + 66.61% = 1.91% / 86.4% = (1.3 / 81.2%) / 6.65% = 24.6%

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49911 [mpc_dne]gac1@bnk1_pc cqr1@bnk1_jcqr1

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7 c,
0 Leccb]_qqqqk el r]Bcqappgc]mu]fc]npe_l g_rgt Lqqqqqco]fc]c_jrf]b]p]ccbo]m]fc]jmk ks]g]q]l]b]cq]l]w
AFL? q]en npccb] N_p]l]Dcqgrt B,
1 N_rgt]ccsa_rgt]m]fc]a]g]Bcqappgc]nu]f]c]mpe_l g_rgt]l]djk q]l]b]bba_a_rcq]h]qpl q]l]l]b]h]qpl q]l]f]m]k_v]c]ejicb
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3 Nprk_mgt]m]l]mk k sl g]v]c_jrf]Npt_gbc]l]v]mf c]p]djk_sgt]l]k]npr_l r]f]n]bc_qaqgrgt e]nu]f]c]mpe_l g_rgt %]neng]l]a]qqqo]m]mf c]p]c]jrf
a]p]l]aq]g]c]l]p]c]q]p]cvk n]hs]p]mc]v]f]p]k mg]e]f]c]c_jrf]l]f]f]c]kmk ks]gv]f]c]e]t]h]cl]k]cbg]_br]cf]mk k sl g]v]m]str]l]q]h]d]p]s]q
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4 ? d]q]rcb] c_jrf]l]p]q]w]rk]l]f]f]c]mpe_l g_rgt]l]h]_p]h]l]l]d]q]rcb] c_jrf]l]p]q]w]rk]l]bc_qaqgrgc]fc]e]q]c]arg c]p]co]m]f]c]mpe_l g_rgt
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5 Qr_re]d]q]e]m]l]mk k sl g]v]c]l]cd]p]cmnp]l]nnig]sic]l]p]l]rgt]l]br]c]q]qf]l]f]q]f]f]c]mpe_l g_rgt]l]m]l]p]l]rcb]h]p]e_l g_rgt]l]p]l]c]l]l]m]l]n]r]

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325] 54-61561-9-1*13-132-1

$\frac{7}{4} \left(\left[\frac{3}{4} \left(-\frac{675}{8} + \frac{21}{2} \right) + \frac{352}{5} \right] \frac{5}{6} \right) \frac{1}{5} \cdot \frac{6}{7} \cdot \frac{7}{2} \cdot \frac{6}{7} \cdot \frac{7}{6} \cdot \frac{7}{2} \cdot \frac{6}{7} \cdot \frac{7}{8} \cdot \left(\frac{126}{5} \right) \left(\frac{6}{5} + \frac{1}{6} \right) 800 \cdot 5$

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$\text{7t}((\text{1.66}/(\text{('8.67.31}\|\text{.75}\text{.1.1}\|^{\text{2}})) \& (\text{1.2676}\|\text{7t.57}\|\text{72}))\text{257}\leq\text{678})\text{'(176}$

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6/63/ 192/9(') 1/24/ 6/63/ 61/ 152/ 1(56/) * 1/65/ 23/ 63/ 00/ 62/ 63/ 1/ 63/

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As of 11/16/16, 6,486,221 shares of common stock were outstanding.

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5(6(\$5&+0'(6,*10'72(/8&,'\$70%,2/2*,&\$/0(&+\$1,606)81'(567\$1'0',6(\$6(

3\$7+2*(1(6,60,03529(0',\$*126,60(1+\$1&(075(\$70(17287&20(035(9(17

'6(\$6(6\$1'0,1,0,-0\$9(56(0&216(48(1&(602)75(\$70(17\$1'0%&('8&\$7,1*

+(\$/7+&\$5(0\$1'0&, (17,) &5(6(\$5&+0352)(66,21\$60 7+528*+07+(6(0))2576

,(06((0,72)&85(0\$1'0(1+\$1&(07+(048\$/7<02)0/,)(0)25\$10,1&5(\$6,1*

3523257,2102)&+, /'5(10:20(072086)25075(\$70(17\$1'0%<(0;3\$1',1*0\$1'

6+\$5,1*0,12:/(*0720\$9\$1&(075(\$70(1702)&+, /'5(10:,7+0&\$7\$67523+,&

'6(\$6(60,10&+, /'5(10

67-8 ('0&20%,1(60/\$25\$725-&0\$1'0&/,1,&\$/05(6(\$5&+0720\$9\$1&(07+(0&\$5(02)

&+, /'5(10:,7+0&1&(50\$1'027+05&\$7\$67523+,&0',6(\$6(60)2&86,1*021

3529, '1*028767\$1',1*03\$7,(17&\$5(05(68/760,105(6(\$5&+0),1',1*607+07

75\$16/\$7(0,1720,03529('03\$7,(17287&20(0 67-8 ('0+\$6\$10\$0&'(0,&)0&0/7<

(1*\$*('0,10\$0%52\$0'63(&758002)5(6(\$5&+0,1&/8',1*07+(5\$3(87,&075,\$/60

,19(67,*\$7,2102)0',6(\$6(03\$7+2*(1(6,60\$1'0',6&29(5<025,(170%\$6,&

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+263,7\$/023(5\$7,2160\$5(029(56((10%&0%2\$5'02)0*29(5125607+(0\$-25,7<0\$5(

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6&, (17,), &0\$'9,625<0%2\$5'0&20326('02)0,17(51\$7,21\$/<03520,1(1703+<6,&, \$16

\$1'06&, (17,6760

67-8 ('0&2175,%87(07207+(0%8,/0,1*02)0\$067\$7(02)07+(0\$5701852685*,&\$/

0\$&, /,7<025075(\$7,1*03('0,75,&03\$7,(1760,107+(06855281',1*09,&,1,7<0\$1'

67-8 ('0%5\$,107802503\$7,(1760 7+(0\$&, /,7<0,60(48,33('0:,7+0

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025(□7+\$1□□□□0\$7+(&'3\$,56□2)□78025□\$1'□+(\$/7+<□*(120(6□)520□<281*

3\$7,(176□□7+□36*3□+&6□3529,'('1(,□'(7\$,/6□\$%287□7+□087\$7,216□7+\$7

81'('5/, ('7+('9(/230(17□\$1'*52,74□2)□\$5\$1*(□2)□&+, /'+22'□&\$1&(56□□\$1'

+&6□/\$, '□7+('281'\$7,21□)25□,03529('□', \$*1267,&□7(67,1*□\$1'□7+('1(,7

*(1(5\$7,21□2)□025(□())(&7,9(□)/66□72:, &□7+(5\$3,(6□□7+□352-(&7+\$6)/('□72

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780256□\$6□,(/\$/6□1(,□&20387\$7,21\$□0(7+2'6□7+\$7+\$9(□%((1□6+\$5('□)25□)5((

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7+('□&&/27521□□3\$57,&/(□\$&&0/(5\$725□□\$7□67□□-8'('□(1\$%/(6□5(6(\$5&+□56□72

75\$& □7+('□*52,7+□2)□&\$1&(5□&(/6□□3,132,17□7+('352'8&7,21□2)□1(,□'1\$□%<

78025□&(/6□\$1'□678'<□7+('□+(\$576□2)□\$'8/7□3\$7,(176□5(7851,1*□72□67□□-8'('

)25□/, ('7,0(□)2//2:□83□□ 7+('□&&/27521□+('36□5(6(\$5&+□56□%((77(5□81'((567\$1'

&+, /'+22'□&\$1&(5□%&('1\$%/, 1*□7+('0□72□352'8&('1(,□□9(5<□6+25□\$&7,1*

75\$&(56□

67□□-8'('□87, /,-(6□7+('6(59,&(6□2)□&+, /'5(1□6□*03□□//&□□2)□:+, &+□67□□-8'('

,6□7+('□62/(□0(0%5□□) &+, /'5(1□6□*03□□//&□0\$1\$*(6□\$1'□23(5\$7(6□\$□*22'

0\$18)\$&785,1*□35\$&7,&('□*03□□)\$&, /,7<□:+, &+□(1*□\$*(6□,1□7+('352'8&7,21□2)

%,2/2*,&6□\$1'□'58*6□)25□5(6(\$5&+□□ 7+('□*03□2)) (56□5(6285&(6□72□678'<□5\$5(

' ,6(\$6(6□29(5/22, ('□%<□3+\$50\$&87,&\$//&203\$1,(6□%&\$86(□7+('5□,6□/,77/('

352),7□,1□0\$18)\$&785,1*□'58*6□)25□/(66(5□,12,1□',6(\$6(6□□ 7+('□)\$&, /,7<□

23(5\$7,1*□\$&&25',1*□72□\$33529('□)'\$□67\$1'□\$5'□\$//2:6□'2&7256□72□7\$,,/25

75(\$70(176□63(&,),&\$//<□)25□\$1□,1',9, '8\$/□&+, /'□

7+('□&(/□\$1'□7,668(□,0\$*,1*□&(17(5□,1&/8'('6□(/&7521□0,&526&23<□\$1'□/, *+7

0,&526&23<□□ 7+('□)\$&, /,74□3529,'(6□,19(67,*\$7256□\$&&(66□72□75\$160,66,21□

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(((&7521)0,&526&23<)&21)2&\$//\$/6(56&\$11,1*0,&526&23<)08/7,3+2721)

0,&526&23<),0\$*(0\$1\$/<6,6//&(/0,&52,1-(&7,21)\$1'//,9(&(/0,0\$*,1*

7+(0)(,07(&1\$,11111111,9))(*(((&7521)0,&526&23(0:+,&+&\$1\$0\$*1,)<\$1

2%-(&7111111117,0(6//,6\$7)7+(0+\$57)2)7+,6352*5\$0//7+(0/(&7521

0,&526&23(),167580(17//,621(12)21/<111112),767<3(),17+(0:25/'//7+,6

7(&+12/2*<\$/2:65(6(\$5&+(56)72)*7\$//&/26(5)/22,0\$7&\$1&(5)72%77(5

81'(567\$1'+2:,7*52:6\$1'635(\$'6\$1'5(6321'6)72)7+(5\$3<)86,1*7+(

(((&7521)0,&526&23(0)5(6(\$5&+(56)(\$51)+2:0&\$1&(5)&(/6%5(\$,\$:\$<)520

7+(078025\$1'635(\$'7+528*+287)7+(0%2'<)

&216758&7,21(2)0\$1(,03\$7,(17&\$5(0\$1'5(6(\$5&+0%8,/'1*21)7+(067)-8'0

&\$0386,681'(5:\$<0 7+(0)\$&,/,7<0:,//4286(0352721)%(\$0\$5\$,7,21)7+(5\$3<

7(&+12/2*<'(6,*1('72)'(/,9(5)5\$',7,21)7+(5\$3<)25)75(\$7,1*0&+,/'5(1

:,7+0%5\$,1780256\$1'6(9(5\$/27+(5\$&+,/'+22'0&\$1&(56)0352721)7+(5\$3<),6

)85//(66)'\$0\$*,1*726855281',1*0+(0/7+47,668(07+\$1)27+(5\$&855(17

5\$,7,21)7+(5\$3,(6//7+6(48,30(17//,//0(1\$%/(067)-8'072)3529,'07+,6

7+(5\$3<),0\$025(0,17(*5\$7('0\$11(5)72)2873\$7,(176)\$1'\$/2:285\$5\$',7,21

21&2/2*,67672//(\$'07+(0'(9//230(17)2)1(,075(\$70(176),7+03527216)

&855(17/<07+(50\$5(012)27+(5)352721)7+(5\$3<0&(17(56),17+(0:25/'0',&\$70'

62//<072)7+(075(\$70(17)2)&+,/'5(1

72)857+(5)3\$//,7,9(06(59,&(6),17+(0&20081,7<067)-8'03\$57,&3\$7('

:,7+0/((0%21+(85)&+,/'5(16+263,7\$/0,10'(9//23,1*07+(048\$/7<02)//,0)25

\$/0,,063\$//,7,9(0352*5\$0)25)6(5,286/<,0&+,/'5(10+263,&(067\$))0

027+,107+(0+200\$10,107+(0+263,&(05(6,'(1&(0)3529,'06,17(5',6&,3/,1\$5<

&85(072)&+,/'5(107+528*+287)7+(0//166)75\$-(&7254\$1'0&21&855(17

7+(5\$3,(6)

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67□□-8' (□\$'0, 1, 675\$7, 9(□/(\$'(56□\$1'')\$&8/7<□0(0%56□2)□7+□'3\$570(17□2)□

3+\$50\$&(87,&\$/□6&, (1&(6□+\$9(□% (1□\$7□7+□)25()5217□2)□%5, 1*, 1*□1\$7, 21\$/

\$77(17, 21□72□74(□3(',\$75, 6□&\$1&(5□'58*□6+257\$*(□723, &□\$&7, 9(/<□(1*\$*, 1*

5(*8/\$725-□\$1'□/*, 6/\$7, 9(□#2', (6□72□81'(567\$1'□7+□, 03\$&7□7+□6□'58*

6+257\$*(6□+\$9(□21□3(',\$75, 6□&\$5(□\$1'□5(6(\$5&4□ 35(6(17\$7, 216□25□:5, 77(1

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+286(□&200, 77((□21)(1(5*<□\$1'□&200(5&(

67□□-8' (□)2&86(6□21)('8&\$7, 1*□\$1'□75\$6, 1, 1*□7+□1□, 7□*□1(5\$7, 21□2)□'2&?256□

1856(6□□5(6(\$5&+(56□\$1'□\$&\$'(\$0, &□/(\$'(56□□)520□352*5\$06□)25□+, *+□6&+22/

678'(176□72□7+□326□'2&725\$/□/9(□/□7+□)263, 7\$/□3/\$<6□\$□0\$-25□52/(□, 1

35(3\$5, 1*□8785(□/(\$'(56□2)□6&, (1&(□\$1'□0(',&, 1(□□, 1□\$'', 7, 21□72□216, 7(

('8&\$7, 21□□7+□, 17(51\$7, 21\$/\$2875(\$&+□352*5\$0□3529, ('6□\$1)('8&\$7, 21□\$1'

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72□7+□6(□3\$7, (17□3238/\$7, 216□□67□□-8' (□+0\$72/2*<□'(',&\$7(6□\$

6,*1,), &\$17□\$02817□2)□5(6285&(6□72□&/, 1, &\$/□□75\$16/\$7, 21\$/\$□\$1'□%\$6, &

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5(6(\$5&+□678', (6□□: +, &+□+\$9(□5(68/7('□, 1□0\$-25□, 03529(0(176□, 1□&/, 1, &\$/

&\$5(□□)25□(; \$03/ (□5(&(17□5(68/76□)520□7+□)□%\$%<□+8*□75, \$/\$□6+2: ('□7+□\$7

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,107+, 6068%3238/\$7, 2100 \$/6200, 10\$0, 5670, 100\$1075, \$/06700-8'(*

+0\$72/2*46+2:(*'74(06\$)(740\$1'0()), &\$&<02)0\$129(/0*(1075\$16)(5

\$*(170&\$55<, 1*07+(0)\$&7250, ,0*(10)25075(\$70(1702)+023+, /, \$0%0\$//

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810; 30&70('6, '(0())(&760\$1'0\$/03\$57, &, 3\$17606+2:(0\$10, 1&5(\$6(0, 1

)0&7250, ;0/(90/60/0\$, 1*0720\$68%67\$17, \$/05('8&7, 210, 107+0, 50%/(0', 1*

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&85(60\$1'025075(\$70(176072035(9(170&203/, &7, 2160, 10+/, /'5(10:, 7+6&'

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7+(0&2035(+16, 900+90&\$50\$0\$1'035(9(17, 210352*5\$00)250&+, /'5(10\$1'

<28740\$706700-8'(*&+, /'5(1605(6(\$5+4+263, 7\$/06-&5+00:\$60, 1, 7, \$70('0, 1

000000/2&70('0, 10003+, 600710\$1'0&2//0%25\$7, 9(0\$0), /, \$7, 2160\$707+

81, 9(56, 702)0710+(0\$7+6&, (1&(0&(1705007+(0352*5\$006(59(60, 10\$10\$50\$

20)07+(0&28175<0:+,&0+0\$60%((103\$57, &8/05/<0\$))(&70'0%<07+(0+, 9

(3, '(0, &0)(63(&, \$//0\$021*0<287+0

6, 1&0, 760%(*, 11, 1*07+(0+, 90&/, 1, &\$0\$1'05(6(\$5+40352*5\$00\$706700-8'(*

+0\$60(59('0, 1)\$17600&+, /'5(10\$'2/(6&(1760\$1'0<281*0\$'8/7600%, 57+

7+528*+0000<05602)0\$*(00%<03529, ', 1*0&2035(+16, 9000', &\$0\$500&060

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\$1'063, 5, 78\$0/068332570)2503\$7, (1760\$1'07+(0, 50\$0/, (6007+(06(59, &(6

,1&/0'0(\$01216, 70('0'<63/\$6, \$0&/, 1, &06(7830)250+, *+05(62/87, 210\$126&23<

\$1'0&2/326&23<07+(0\$'2/(6&(1700', &, 1075, \$/0107:25, 0\$7106321625('

107, 21\$0/0352-(&70&211(&707203527(&70 0&3000+0\$60%((10\$0\$-25

&2175, %87, 2107207+(067521*0&20081, 7<07, (607+0707406700-8'0+, 90&\$50

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%66('0('8&\$7,21|\$1'|7(67,1*|(9(176|:,74|\$1|,03\$&7|2)|:|(|29(5|||))

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9. $\frac{5}{6} + \left(\frac{1}{6} + 2\frac{1}{11} \right) \left(\frac{1}{6} + 2\frac{1}{352} \right) \left(\frac{1}{6} + 2\frac{1}{352+5.60} \right) \left(\frac{1}{6} + 2\frac{1}{6.7} \right) \dots - 8 \cdot \left(\frac{1}{6} + 2\frac{1}{11} \right) \left(\frac{1}{6} + 2\frac{1}{352} \right) \left(\frac{1}{6} + 2\frac{1}{352+5.60} \right) \left(\frac{1}{6} + 2\frac{1}{6.7} \right) \dots$

$22 + (5) + (6/7 + 65/(25 * 91 - 62 * 216)) * 9 + 6 * 52836 / 72 * 56 - 6 * 65 * 1 * 66$

63283 35(9(12 1*17+1635(6'12)+ 915 '611 7+(135 065<1285*(7) 617+(

80.5 & 81.0 80.5 & 81.0 & 30081 22 8/2438*4 22+5 12+1 & 152836 85/18/63 6(59)

18/8: 1*086 8100688686 81008104 6381 81

34(1)81:56-6-1462856(1)25[63]11-8'(1)6[8(688)]1-5[156-6(6)]81:6[62]11-8'

125/34/(1/263-26/111-N-5-86/(12)/34/(1/263-26/16/0-66-21/12/23/(1163-31-11

52125 893(19 873(16)2)23.28661:6(2)1)81:56 6 14(1)2576(1) 6 165

92/812((56)(1,815)(34)(489,2)(3)(3)(363,(12)(6,85)(3,8)(365,21(5,14),34,

$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{27}$

8(62)(c)(3)(1685/1668)/(19-5310(13)(3)(d)(1)(1866-63815/(61)(3528)(6

[#202666](#) [#21637](#) [#215\(51\)\(3\)\(2\)](#) [#215\(51\)\(3\)\(2\)\(3\)](#) [#215\(51\)\(3\)\(2\)\(3\)\(2\)](#) [#215\(51\)\(3\)\(2\)\(3\)\(2\)\(3\)](#)

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=10263000

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6859, 9256\$1'7+(, 5)\$0, /, (6\$77(1', 1*7+(0\$7(5&203/(7, 21)2)7+5\$3<

\$1'67 -8' (0/) (7, 0(&2+257&/, 1, &65287, 1(/<5(&, 9(&2816(/, 1*5\$287

7+(, 5)+(\$/7+0+, 6725<&1&(550/\$70'0+(\$/7+5, 6, 6)0+(\$/7+6&5((1, 1*

5(&200(1'(')257+(, 5)63(&,)&&\$1&(575(\$70(170(, 32685(6\$1'0(7+2'6

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3) $\frac{1}{18} \left(23.1 + 5.615 \times 5 \right) \approx 14.253 + 5.607 \approx 19.862$, 216 $\left(\frac{1}{23.1} - \frac{1}{5.615} \right) \approx 1.327 \times 8.7$

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$$+ \left(\frac{9}{8} \right) \left(-3 \left(576 \right) + 2 \right) 25 \left(72^4 \right) + 5 \left(72 \right) \left(1685 \left(7 + 67 \right) 7 + 5217 \left(17 \right) 66 + 19 \left(6 \right) \right)$$

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2) $\frac{1}{2} + \left(\frac{1}{6} \right)^2 - \frac{1}{2} \left(\frac{1}{6} + \frac{23}{6} \right)^2 + \left(\frac{5}{2} - 21 \left(\frac{1}{6} + \frac{23}{6} \right)^2 \right) + \frac{6}{5} + \frac{65}{2} \left(\frac{1}{6} \right)^2 - 16 \left(\frac{1}{6} \right)^4$

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• Think on our time
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File: /home/centos/PycharmProjects/untitled/venv/lib/python3.6/site-packages/tensorflow/python/training/queue_runner.py

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JF? [] Dmg[N_ncpu npj] [PcbSargi Par].mrg c[jcc]f c[B qpsargi c[dmp]Dmpk [77.]

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• 1 Runc[ml]ep_1 [ml]Logger_I ac	• 'Lsk ecjhnd peagncl iq	• P k ns l r[jnd a_qf]p2lr	• P k ns l [jnd] ml + a_qf]Logger_I ac	• Kcrf mb[mq] _s_rgr & nm i[DKT]Lnn e g_f [mf cp]	• Bcqaggngrt [mq] ml + a_qf]Logger_I ac

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4 L_k c[njhptgbcl]	:							
4 Fc k [njeQA]								
5 U_q[rfc]es_i_mq[jq_dt]_g_mdm[qr_eigf_ae]f c[h_dlk_pcrl]_s_c[m]f c[EQA]h_gpd[b=]								
4 Ucp[li wjepred[hpsacc bqltcqrct]ecwt b l_t_a_ejc]ck nmp_pjhcgnb=]	:							
5 F_q[rfc]he_lg_rgt[bqr_eigf cb]u_pjrci [h_pscbs_pco]n[jcl q_p]f_d[gr]_grt q[m]d								
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Qaf_cbsjc[P]Dmk [77. 1] 0. / 2

N_p[9] @cl rgb_rg1 [m]Pci_rgrb[Mpe_lg_rg1 clR_v_sje]c[N_p1_cpf]@lArk_nj:c@lfc[mpe_lg_rg1 lI qu_cpb@Wcq [n]lDmk]#7.4[N_p[3]] c@l2)ca_sqdr]_b@lcl[m]k_mp@ce_rcb mpe_lg_rg1 qfjpc_cbl]ql]h_pf_cpfqg[lbsqje[lfc]r_vje_p]

N_p[3] ~~Qd rgf_rgf [jn]Pj_rgf [Mpc_1 g_rgfi q]R_v_s_jcf_q]Amphmp_rgfi [mP]Rp_sq[Amk_n]crc[jif c]me_1 g_rgfi [I qu c|p b] Wq [m] [Dmk]77. [N_p[3][c][2]ka_sqc[b]]_b[m c]mk_mp]o_Lcb me_1 g_rgfi q]p_e_c[b]q]l]imp_mp_gfi [mP]Rp_sq[ps g e]f[c]j_v|ic_p]~~

N_p[T] Rp_1 c_argin c]Ugf [Pc_j_rcb]Mpe_1 g_+real c]Arik njc c][bf]f c]Impe_1g_rgff [[I qu_cpcb]Wcb_1ht [Dpkp]77. -1N_p[G]dc c]12^*[3 c]1[m]4.

o) car cl quch tl whdr cl emci g We gecl cl qrasgn q thck gr m l u f m k sqrnk ncr cl q c cl ajsbd e amt crab he er qf gn l b lp l q a sm l ht peo mbo

L_k c[m][c].rcb[ms_l g_.gr1]	R_p_l q_a.gr1 mnc[3,4]	?k ns l r[t]tmjtcb[]	Kerf mb[ns]bcrcpkg_g[e]L_k ns l r[t]tmjtcb[]
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gy[\$0(5,&\$1)/(%\$1(6(6<5,\$1[\$662&,\$7(&+\$5,7,(6 ,1&	0		&\$6+
g'[\$0(5,&\$1)/(%\$1(6(6<5,\$1[\$662&,\$7(&+\$5,7,(6 ,1&	3		&\$6+
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gg			

N_p[TG] Si p[oi_rpb][Mpe_1 g_rgfl q[R_v_cjcl_q[N_p1 cpqf g[Aink njoic_l][Hfc][hpe_1 g_rgfl][I qu cpqb] Wq][m][Disk][7, -N_p[TG]a c][5]]

Nont[gc]r c[jn]re g[e] dskp _rgf [dm]_af [bl rgf]_vc b[L]_h_gf cpnf gn[f] ps e[bl f g f]_fr c[m]e_l g_e_gf [bml ts arcbk]_mp[if _l]_b[c]_hc[ac]_l {m}f[rc]_a[d]_gco[b]c_qs[p]b[e]v]mr_1[Qpc]_m[ppro]_etcl sc_1 r[_l]_u_q] m[L]_jrc_rcb[m]e_l g_e_gf]_Oc]_qrs argt q]ce_p_dg[e]_cv]s qgnf [bm]_jcp_d]_t cqrk cl[r_h]_prl c[pf] gnq.]

Nest dell'ibrido. I dati sono stati elaborati per ottenere una lista delle 1000 piante che sono state coltivate.

St. Jude Children's Research Hospital, Inc. and Subsidiary

Consolidated Financial Statements as of and
for the Years Ended June 30, 2015 and 2014,
and Independent Auditors' Report

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

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INDEPENDENT AUDITORS' REPORT

To the Board of Governors of
St. Jude Children's Research Hospital, Inc.
Memphis, Tennessee

We have audited the accompanying consolidated financial statements of St. Jude Children's Research Hospital, Inc. and its wholly owned subsidiary (collectively, the "Hospital"), which comprise the consolidated statements of financial position as of June 30, 2015 and 2014, and the related consolidated statements of activities, functional expenses, and cash flows for the years then ended, and the related notes to the consolidated financial statements.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Hospital's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Hospital's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of St. Jude Children's Research Hospital, Inc. and its subsidiary as of June 30, 2015 and 2014, and the changes in their net assets, and their cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Deloitte & Touche LLP

October 2, 2015

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

**CONSOLIDATED STATEMENTS OF FINANCIAL POSITION
AS OF JUNE 30, 2015 AND 2014**

	2015	2014
ASSETS		
CURRENT ASSETS:		
Cash	\$ 672,963	\$ 18,460
Assets limited as to use—held by trustee	10,576,750	10,445,000
Accounts receivable:		
Patient care services—not	15,768,242	13,123,665
Grants and contracts	16,106,541	5,247,477
Other	1,016,773	2,768,353
Inventories	6,915,766	5,315,567
Prepaid expenses and other assets	<u>15,183,552</u>	<u>8,746,958</u>
Total current assets	66,240,587	45,665,480
ASSETS LIMITED AS TO USE—Excluding current portion	1,894,745	1,847,027
INTEREST IN NET ASSETS OF AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES, INC.	3,452,406,730	3,298,839,134
PROPERTY AND EQUIPMENT—Net	558,384,695	532,795,874
UNAMORTIZED BOND ISSUANCE COSTS	<u>1,085,467</u>	<u>1,155,630</u>
TOTAL	<u>\$4,080,012,224</u>	<u>\$3,880,103,145</u>
LIABILITIES AND NET ASSETS		
CURRENT LIABILITIES:		
Current portion of long-term debt	\$ 5,390,000	\$ 5,130,000
Accounts payable	56,203,431	50,126,729
Accrued payroll costs	30,293,426	28,327,185
Accrued interest	5,186,750	5,315,000
Employee health liability costs	<u>4,108,000</u>	<u>3,922,000</u>
Total current liabilities	131,181,607	92,820,914
LONG-TERM DEBT—Excluding current portion	211,881,404	217,904,956
DEFERRED REVENUES FROM GRANTS AND CONTRACTS	8,912,438	6,906,828
OTHER LONG-TERM LIABILITIES	<u>2,792,804</u>	<u>2,853,098</u>
Total liabilities	<u>324,768,253</u>	<u>320,485,796</u>
COMMITMENTS AND CONTINGENCIES		
NET ASSETS:		
Unrestricted	2,814,919,510	2,578,631,115
Temporarily restricted	66,439,327	66,082,159
Permanently restricted	<u>873,885,134</u>	<u>915,104,075</u>
Total net assets	<u>3,755,243,971</u>	<u>3,559,817,349</u>
TOTAL	<u>\$4,080,012,224</u>	<u>\$3,880,103,145</u>

See notes to consolidated financial statements.

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

CONSOLIDATED STATEMENTS OF ACTIVITIES FOR THE YEARS ENDED JUNE 30, 2015 AND 2014

	2015				2014			
	Unrestricted	Temporarily Restricted	Permanently Restricted	Total	Unrestricted	Temporarily Restricted	Permanently Restricted	Total
REVENUES, GAINS, AND OTHER SUPPORT:								
Net patient service revenue	\$ 105,576,630	\$ -	\$ -	\$ 105,576,630	\$ 91,421,430	\$ -	\$ -	\$ 91,421,430
Research grants and contracts	85,340,636	-	-	85,340,636	88,937,617	-	-	88,937,617
Net investment income	24,889	-	-	24,889	220,580	-	-	220,580
Other	14,958,853	-	-	14,958,853	31,097,274	-	-	31,097,274
Total revenues, gains, and other support	205,906,928	-	-	205,906,928	211,676,901	-	-	211,676,901
EXPENSES:								
Program services:								
Patient care services	367,779,303	-	-	367,779,303	317,082,384	-	-	317,082,384
Research	339,670,870	-	-	339,670,870	323,357,158	-	-	323,357,158
Education, training, and community services	7,650,773	-	-	7,650,773	9,954,434	-	-	9,954,434
Total program services	715,100,946	-	-	715,100,946	630,995,996	-	-	630,995,996
Supporting services—administrative and general	38,583,921	-	-	38,583,921	32,282,033	-	-	32,282,033
Total expense	753,684,867	-	-	753,684,867	663,276,029	-	-	663,276,029
CHANGE IN INTEREST IN UNRESTRICTED NET ASSETS OF AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES, INC.	194,429,369	-	-	194,429,369	452,697,768	-	-	452,697,768
LOSS FROM DISPOSAL OF PROPERTY AND EQUIPMENT	(597,507)	-	-	(597,507)	(1,304,320)	-	-	(1,304,320)
EXPENSES IN EXCESS OF REVENUES, GAINS, AND OTHER SUPPORT	(353,946,077)	-	-	(353,946,077)	(20,205,680)	-	-	(20,205,680)
NET SUPPORT RECEIVED FROM AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES, INC.	589,461,640	-	-	589,461,640	530,494,893	-	-	530,494,893
NET ASSETS TRANSFERRED FROM AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES, INC.	772,832	-	-	772,832	-	-	-	-
CHANGE IN INTEREST IN NET ASSETS OF AMERICAN LEBANESE SYRIAN ASSOCIATED CHARITIES, INC.	-	357,168	(41,218,941)	(40,861,773)	-	3,937,362	71,260,002	73,398,694
CHANGES IN NET ASSETS	236,288,395	357,168	(41,218,941)	195,426,622	810,289,213	3,937,362	71,260,002	981,187,907
NET ASSETS—Beginning of year	2,578,631,115	56,082,159	915,104,075	3,559,817,349	2,068,341,902	60,141,267	843,843,273	3,971,029,442
NET ASSETS—End of year	<u>\$2,814,919,510</u>	<u>\$66,439,327</u>	<u>5873,885,134</u>	<u>\$3,755,243,971</u>	<u>\$2,578,631,115</u>	<u>\$66,082,159</u>	<u>\$915,164,075</u>	<u>\$3,599,817,349</u>

See notes to consolidated financial statements.

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

**CONSOLIDATED STATEMENTS OF FUNCTIONAL EXPENSES
FOR THE YEARS ENDED JUNE 30, 2015 AND 2014**

	2015			2014		
	Program Services	Supporting Services—Administrative and General	Total Program and Supporting Services	Program Services	Supporting Services—Administrative and General	Total Program and Supporting Services
SALARIES AND BENEFITS	\$375,280,028	\$19,843,517	\$395,123,545	\$356,951,713	\$17,178,734	\$374,130,447
PROFESSIONAL FEES AND CONTRACT SERVICES	105,026,518	6,553,382	111,579,900	93,931,048	4,732,256	98,663,304
SUPPLIES	117,544,675	1,983,883	119,528,558	99,986,018	1,776,206	101,762,224
TELEPHONE	1,560,265	185,007	1,745,272	1,182,601	91,618	1,274,219
OCCUPANCY	22,456,461	2,955,399	25,411,860	19,676,446	2,622,337	22,298,783
TRAVEL AND MEETINGS	9,937,017	332,413	10,269,430	9,659,746	276,655	9,936,401
INTEREST AND AMORTIZATION	6,182,216	6,894	6,189,110	3,079,528	3,400	3,082,928
MISCELLANEOUS	<u>11,586,250</u>	<u>3,717,276</u>	<u>15,303,526</u>	<u>7,933,822</u>	<u>3,190,211</u>	<u>11,124,033</u>
Total before depreciation	649,573,430	35,577,771	685,151,201	592,400,922	29,871,417	622,272,339
DEPRECIATION	<u>65,527,516</u>	<u>3,006,150</u>	<u>68,533,666</u>	<u>58,593,074</u>	<u>2,410,616</u>	<u>61,003,690</u>
	<u>\$715,100,946</u>	<u>\$38,583,921</u>	<u>\$753,684,867</u>	<u>\$650,993,996</u>	<u>\$32,282,033</u>	<u>\$683,276,029</u>

See notes to consolidated financial statements.

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

**CONSOLIDATED STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2015 AND 2014**

	2015	2014
CASH FLOWS FROM OPERATING ACTIVITIES:		
Changes in net assets	\$ 195,426,622	\$ 587,487,907
Adjustments to reconcile changes in net assets to net cash used in operating activities:		
Support received from American Lebanese Syrian Associated Charities, Inc.	(589,461,640)	(530,494,893)
Change in interest in net assets of American Lebanese Syrian Associated Charities, Inc.	(153,567,596)	(529,896,462)
Depreciation	68,513,666	61,003,690
Amortization	(563,389)	(562,082)
Net realized and unrealized investment gains	(47,718)	(234,523)
Loss from disposal of property and equipment	597,507	1,304,320
Transfer from affiliate	(772,832)	-
Changes in operating assets and liabilities:		
Accounts receivable	(11,752,061)	(2,050,387)
Inventories	(1,600,199)	(486,340)
Prepaid expenses and other assets	(6,436,594)	(862,537)
Accounts payable and other accrued liabilities	7,362,383	15,196,754
Deferred revenues from grants and contracts	<u>2,005,610</u>	<u>1,013,221</u>
Net cash used in operating activities	<u>(490,276,241)</u>	<u>(398,581,332)</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Net increase in assets limited as to use	(131,750)	(117,750)
Capital expenditures	(93,312,034)	(133,788,217)
Proceeds from the sale of property and equipment	<u>42,888</u>	<u>27,946</u>
Net cash used in investing activities	<u>(93,400,896)</u>	<u>(133,878,021)</u>
CASH FLOWS FROM FINANCING ACTIVITIES:		
Support received from American Lebanese Syrian Associated Charities, Inc.	589,461,640	530,494,893
Bond principal payment	<u>(5,130,000)</u>	<u>(4,890,000)</u>
Net cash provided by financing activities	<u>584,331,640</u>	<u>525,604,893</u>
NET CHANGE IN CASH	654,503	(6,854,460)
CASH—Beginning of year	<u>18,460</u>	<u>6,872,920</u>
CASH—End of year	<u>\$ 672,963</u>	<u>\$ 18,460</u>
NON-CASH INVESTING AND FINANCING ACTIVITIES—		
Capital expenditures, on account	\$ 678,016	\$ -

See notes to consolidated financial statements.

ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC. AND SUBSIDIARY

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED JUNE 30, 2015 AND 2014

I. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

St. Jude Children's Research Hospital, Inc. and subsidiary (the "Hospital") is a research, treatment, and education center whose mission is to save children's lives by finding the causes of catastrophic illnesses, improving related treatments, and finding cures for their diseases. More than 8,300 patients are seen at the Hospital yearly, most of whom are treated on a continuing outpatient basis as part of ongoing research programs and account for approximately 74,000 hospital visits per year. The current basic science and clinical research at the Hospital includes work in gene therapy, chemotherapy, the biochemistry of normal cancerous cells, radiation treatment, blood diseases, resistance to therapy, viruses, hereditary diseases, influenza, pediatric AIDS, and physiological effects of catastrophic illnesses.

The accompanying consolidated financial statements do not include the individual accounts of the Hospital's affiliate, American Lebanese Syrian Associated Charities, Inc. (ALSAC), which is the fund raising organization for the Hospital. The bylaws of ALSAC provide that all funds raised, except for funds required for its operations and funds restricted as to other uses by donors, be distributed to or held for the exclusive benefit of the Hospital.

Hospital operations are overseen by a Board of Governors (the "Board"). The research activities of the Hospital are reviewed annually by a Scientific Advisory Board composed of internationally prominent physicians and scientists.

Cash—The Hospital has a cash management arrangement with ALSAC, generally providing for ALSAC's reimbursement of Hospital funds when Hospital expenditures are presented for payment.

Inventories—Inventories, consisting primarily of medical supplies and pharmaceuticals, are stated at the lower of cost (first in, first out method) or replacement market value.

Assets Limited as to Use—Assets limited as to use include assets set aside by the Board for liability insurance funding, over which the Board retains control and may, at its discretion, subsequently use for other purposes and assets held by the bond trustee under related indenture agreements.

Interest in Net Assets of ALSAC—The Hospital applies the provisions of Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 958, *Not-for-Profit Entities*. Because of the Hospital's relationship as ALSAC's sole beneficiary and the overall financial interrelationship of the Hospital and ALSAC, ASC Topic 958 requires that the Hospital report its interest in the net assets of ALSAC in the consolidated statements of financial position, with corresponding changes in those net assets reported in a "quasi-equity-method" fashion in the accompanying consolidated statements of activities.

For purposes of classification as unrestricted, temporarily restricted, or permanently restricted, the change in the interest in ALSAC's net assets is reported in the accompanying consolidated statements of activities consistent with the reporting of such changes in ALSAC's financial statements.

Costs of Borrowing—Bond issuance costs and bond premiums are amortized over the term of the related bond issue and included in the consolidated statements of functional expenses as interest and amortization. Approximately \$70,000 of bond issuance costs and approximately \$634,000 of bond premium were amortized during 2015. Approximately \$70,000 of bond issuance costs and approximately \$632,000 of bond premium were amortized during 2014.

The Hospital capitalizes interest cost on qualified construction expenditures, net of income earned on related trusteed assets, as a component of the cost of related projects. Interest totaling approximately \$3,621,000 and \$6,985,000 was capitalized in 2015 and 2014, respectively.

Property and Equipment—Equipment is recorded at cost and is depreciated on a straight-line basis over estimated useful lives of 3 to 20 years. Leasehold interests are recorded at cost and are depreciated on a straight-line basis over the term of their lease or their estimated useful lives, whichever is shorter. The Hospital evaluates the carrying value of its property and equipment under the provisions of ASC Topic 360, *Property, Plant, and Equipment*. Under ASC Topic 360, when events, circumstances, and operating results indicate that the carrying value of property and equipment assets may be impaired, the Hospital prepares projections of the undiscounted future cash flows expected to result from the use of the assets and their eventual disposition. If the projections indicate that the recorded amounts are not expected to be recoverable, such amounts are reduced to estimated fair value. There was no impairment in 2015 or 2014.

Temporarily and Permanently Restricted Net Assets—Temporarily restricted net assets are those whose use has been limited by donors to a specific time period or purpose. Permanently restricted net assets have been restricted by donors to be maintained in perpetuity.

Net Patient Service Revenues and Receivables—No family ever pays the Hospital for the care their child receives. Accordingly, net patient service revenue consists only of estimated net realizable amounts from third-party payors for services rendered, including estimated retroactive revenue adjustments (if necessary) due to future audits, reviews, and investigations. Retroactive adjustments are considered in the recognition of revenue on an estimated basis in the period the related services are rendered, and such amounts are adjusted in future periods as adjustments become known or as years are no longer subject to such audits, reviews, and investigations. Patient service revenue has been reduced by adjustments for uncollectible accounts totaling approximately \$831,000 and \$681,000 in 2015 and 2014, respectively.

The Hospital has agreements with governmental and other third party payors that provide for reimbursement to the Hospital at amounts different from its established rates. Contractual adjustments under third-party reimbursement programs represent the difference between the Hospital's billings at established rates for services and amounts reimbursed by third-party payors. Patient care services receivable has been reduced by estimated provisions for contractual adjustments and uncollectible amounts of \$84,028,000 and \$68,925,000 in 2015 and 2014, respectively.

Charity Care—The Hospital provides charity care to patients for all charges in excess of those realizable from third-party payors. Because the Hospital does not pursue collection of amounts determined to qualify as charity care, such amounts are not reported as revenue.

Grant and Contract Revenue Recognition—The Hospital is the direct recipient of grant funding from various governmental agencies and nongovernmental sources for designated research projects initiated both internally and by these external entities. Revenues from grants and contracts are earned as related research costs are incurred.

Other Revenue—Other revenue includes technology licensing, net of payouts to inventors, and other miscellaneous revenue. Technology licensing included in other revenue was approximately \$7,600,000 and \$24,400,000 for the years ended June 30, 2015 and 2014, respectively.

Income Taxes—The Hospital qualifies as tax exempt under existing provisions of the Internal Revenue Code (the “Code”), and its income is generally not subject to federal or state income taxes. The Hospital is not considered a private foundation as defined in Section 509(a) of the Code and, therefore, individual donors are entitled to the maximum charitable deduction under Section 170(c) of the Code.

As of June 30, 2015, the Hospital had not identified any uncertain tax positions under ASC Topic 740, *Income Taxes*, requiring adjustments to its consolidated financial statements. In the event the Hospital were to recognize interest and penalties related to uncertain tax positions, it would be recognized in the consolidated financial statements as interest expense for interest and miscellaneous for penalties. Generally, tax years ending in 2012 through 2015 are open to examination by the federal and state taxing authorities, respectively. There are no income tax examinations currently in process.

Use of Estimates—The preparation of consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires that management make estimates and assumptions affecting the reported amounts of assets, liabilities, revenues, and expenses, as well as disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Significant items subject to such estimates and assumptions include the determination of the allowances for contractual adjustments, estimated professional and general liability costs, reserves for workers’ compensation claims, and reserves for employee health care claims. In addition, laws and regulations governing various federal-sponsored and state-sponsored reimbursement programs are extremely complex and subject to interpretation. As a result, there is at least a reasonable possibility that recorded estimates related to these programs may change in the near term.

Principles of Consolidation—The consolidated financial statements include the accounts of the Hospital and its wholly owned subsidiary, Children’s GMP, LLC (GMP). The purpose of GMP is to lease, manage, and operate a facility that engages in the production of biologics and drugs to be used in research by the Hospital and by other leading biomedical research institutions. All significant intercompany transactions have been eliminated in consolidation.

Subsequent Events—The Hospital has evaluated the impact of significant subsequent events. There have been no subsequent events through October 2, 2015, the date the consolidated financial statements were available to be issued, that require recognition or disclosure.

Recent Accounting Pronouncements—In October 2012, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2012-05, *Statement of Cash Flows*, which amends ASC Topic 230, *Statement of Cash Flows*, addressing how cash receipts arising from the sale of certain donated financial assets, such as securities, should be classified in the statement of cash flows of not-for-profit (NFP) entities. The ASU provides guidance for NFP entities to classify cash receipts from the sale of donated financial assets consistently with cash donations received in the statement of cash flows if those cash receipts were from the sale of donated financial assets that upon receipt were directed without the NFP imposing any limitations for sale and were converted nearly immediately into cash. The new guidance is effective for reporting periods beginning after June 15, 2013. The adoption of this ASU did not have a material effect on the consolidated financial statements.

In April 2013, the FASB issued ASU 2013-06, *Services Received from Personnel of an Affiliate*, which amends ASC Topic 958, *Not-for-Profit Entities*. This ASU requires a recipient NFP entity to recognize all services received from personnel of an affiliate that directly benefit the recipient NFP entity. Those services should be measured at the cost recognized by the affiliate for the personnel providing those services. The new guidance is effective for reporting periods beginning after June 15, 2014. The adoption of this ASU did not have a material effect on the consolidated financial statements.

In May 2014, the FASB issued ASU 2014-09, *Revenue from Contracts with Customers*, which outlines a single comprehensive model for recognizing revenue and supersedes most existing revenue recognition guidance, including guidance specific to the healthcare industry. This ASU is effective for fiscal years beginning after December 15, 2017. Management is evaluating the impact of adopting this new accounting standard on our consolidated financial statements.

In April 2015, the FASB issued ASU 2015-03, *Imputation of Interest (Subtopic 835-30): Simplifying the Presentation of Debt Issuance Costs*, which requires debt issuance costs to be presented in the balance sheet as a direct deduction from the carrying value of the associated debt liability. Prior to the issuance of the standard, debt issuance costs were required to be presented in the balance sheet as an asset. This guidance is effective January 1, 2016. Management is evaluating the impact of adopting this new accounting standard on our consolidated financial statements.

In May 2015, the FASB issued ASU 2015-07, Fair Value Measurement (Topic 820): *Disclosures for Investments in Certain Entities that Calculate Net Asset Value per Share (or Its Equivalent)*. The amendments in this ASU eliminate the requirement that investments for which fair value is measured at net asset value per share (or its equivalent) using the practical expedient be categorized in the fair value hierarchy. The new guidance is effective for reporting periods beginning after December 15, 2016. Management is evaluating the impact of adopting this new accounting standard on our consolidated financial statements.

In July 2015, the FASB issued ASU 2015-11, *Inventory (Topic 330): Simplifying the Measurement of Inventory*, which requires that inventory be measured at the lower of cost and net realizable value. Prior to the issuance of the new guidance, inventory was measured at the lower of cost or market. Replacing the concept of market with the single measurement of net realizable value is intended to create efficiencies for preparers. Inventory measured using the last-in, first-out (LIFO) method and the retail inventory method are not impacted by the new guidance. The guidance is effective January 1, 2017. Management is evaluating the impact of adopting this new accounting standard on our consolidated financial statements.

2. ASSETS LIMITED AS TO USE

The composition of assets limited as to use as of June 30, 2015 and 2014, is as follows:

	2015	2014
Under bond indenture agreements—held by trustee	\$ 10,576,750	\$ 10,445,000
Under self-insurance funding arrangements—pooled investment funds	<u>1,894,745</u>	<u>1,847,027</u>
	12,471,495	12,292,027
Less amounts classified as current assets	<u>(10,576,750)</u>	<u>(10,445,000)</u>
Total	<u>\$ 1,894,745</u>	<u>\$ 1,847,027</u>

Assets limited as to use under self-insurance funding arrangements are invested by the Hospital in two pooled investment funds (the "Funds") in exchange for units of those Funds. The Funds are administered by a third-party custodian and maintained for the exclusive use of the Hospital. As monies become available for investment, additional units in the Funds are purchased. The units are carried at net asset value (NAV) as computed based on the fair value of underlying securities, principally composed of limited investment partnerships, common stocks, and corporate and municipal bonds, which are considered Level 2 in the fair value hierarchy discussed in Note 9.

The composition of net investment gain for the years ended June 30, 2015 and 2014, is as follows:

	2015	2014
Interest and dividend income	\$ 11,453	\$ 13,967
Net realized and unrealized investment gains	<u>13,356</u>	<u>206,613</u>
Total	<u>\$ 24,809</u>	<u>\$ 220,580</u>

3. TRUSTEED BOND FUNDS

The trusteed bond funds were established in accordance with the requirements of the indentures related to the Hospital Revenue Bonds discussed in Note 5. The trusteed bond funds, included in the consolidated statements of financial position as assets limited to use- held by trustee were approximately \$10,577,000 and \$10,445,000 as of June 30, 2015 and 2014, respectively. These funds, which are considered Level 1 in the fair value hierarchy discussed in Note 9, are held by the bond trustee for the annual debt service of the Hospital Revenue Bonds.

4. PROPERTY AND EQUIPMENT

A summary of property and equipment as of June 30, 2015 and 2014, is as follows:

	2015	2014
Leasehold interests:		
Land improvements	\$ 7,885,401	\$ 6,670,104
Buildings and improvements	822,534,469	636,677,304
Owned property:		
Equipment	356,471,072	339,673,821
Construction in progress	<u>72,840,585</u>	<u>194,186,962</u>
	1,259,732,527	1,177,208,191
Less accumulated depreciation	<u>(701,347,832)</u>	<u>(644,412,317)</u>
Total	<u>\$ 558,384,695</u>	<u>\$ 532,795,874</u>

All land improvements, buildings, and building improvements are leased from ALSAC. The major terms of the lease are described in Note 13. The Hospital has reported land improvements and buildings under lease from ALSAC as a capital lease. Land improvements and buildings have been capitalized at cost, which the Hospital estimates approximated the fair value at the inception of the lease.

Construction in progress at June 30, 2015, was principally composed of costs related to the Proton Beam Radiation Therapy (PBRT) center for pediatric cancer treatment, which is housed in the Kay Research and Care Center. The PBRT facility is expected to be substantially complete in calendar year 2016. The total estimated cost of property and equipment for the PBRT project is \$65,500,000.

5. LONG-TERM DEBT

A summary of long-term debt as of June 30, 2015 and 2014, is as follows:

	2015	2014
Series 2006 Revenue Bonds due in annual installments through 2036, fixed interest from 4%–5%	\$ 207,470,000	\$ 212,600,000
Unamortized premium on bonds	<u>9,801,404</u>	<u>10,434,956</u>
Total debt	217,271,404	223,034,956
Less current portion	<u>(5,390,000)</u>	<u>(5,130,000)</u>
Total	<u>\$ 211,881,404</u>	<u>\$ 217,904,956</u>

In November 2006, the Hospital entered into an agreement with Shelby County, Tennessee, to issue \$235,765,000 of Series 2006 Hospital Revenue Bonds (the "Series 2006 Bonds") at a premium of approximately \$14,960,000. The bonds were issued on December 21, 2006. The Series 2006 Bonds were issued to refund a portion of the Series 1999 Hospital Revenue Bonds, to refund prior capital expenditures funded by ALSAC relating to the construction of the Chili's Care Center (CCC), and to fund future construction costs of CCC. Some of the funds were used to pay issuance costs for the Series 2006 Bonds as permitted.

Payments of principal and interest on the Series 2006 Bonds are guaranteed by ALSAC. Under a guaranty agreement dated November 15, 2006, ALSAC has agreed to pay, on demand to the bond trustee, amounts necessary to enable the bond trustee to make payments on the Series 2006 Bonds. The Hospital is also subject to certain covenants, including limitations on the use of the proceeds, transfers of assets, and maintenance of corporate existence and status.

The Hospital and ALSAC are also subject to a debt covenant on the Series 2006 Bonds. The covenant is the ratio of the combined income of the two organizations to the current portion of principal and interest on the Series 2006 Bonds. The Hospital and ALSAC were in compliance with the debt covenant as of June 30, 2015.

Future maturities of long-term debt, by year and in the aggregate, are as follows:

Years Ending June 30	Long-Term Debt
2016	\$ 5,390,000
2017	5,660,000
2018	5,940,000
2019	6,240,000
2020	6,550,000
Thereafter	<u>177,690,000</u>
	207,470,000
Plus unamortized premium on bonds	<u>9,801,404</u>
Total debt	<u>\$ 217,271,404</u>

The Hospital paid interest costs of approximately \$10,400,000 and \$10,700,000 during the years ended June 30, 2015 and 2014, respectively.

6. NET PATIENT SERVICE REVENUE

The Hospital has agreements with governmental and other third-party payors that provide for reimbursement to the Hospital at amounts different from its established rates. Contractual adjustments under third-party reimbursement programs represent the difference between the Hospital's billings at established rates for services and amounts reimbursed by third-party payors. A summary of the basis of reimbursement with major third-party payors is as follows:

Medicaid—Inpatient and outpatient services rendered to Medicaid program beneficiaries are generally paid based upon prospective reimbursement methodologies established by the beneficiaries' state of residence. Revenue from the Medicaid program accounted for approximately 31% of the Hospital's net patient service revenue for the years ended June 30, 2015 and 2014.

Blue Cross—All acute care services rendered to Blue Cross subscribers are reimbursed at prospectively determined rates. Revenue from Blue Cross subscribers accounted for approximately 26% and 25% of the Hospital's net patient service revenue for the years ended June 30, 2015 and 2014, respectively.

Commercial—The Hospital has also entered into other reimbursement arrangements providing for payment methodologies, which include prospectively determined rates per discharge, per diem amounts, case rates, fee schedules, and discounts from established charges. Revenue from commercial subscribers accounted for approximately 41% of the Hospital's net patient service revenue for the years ended June 30, 2015 and 2014.

The components of net patient service revenue as of June 30, 2015 and 2014, consisted of the following:

	2015	2014
Gross patient service revenue—net of charity care charges foregone	\$ 388,994,794	\$ 343,540,717
Less provision for contractual adjustments and uncollectible charges	<u>(283,418,164)</u>	<u>(246,119,287)</u>
Net patient service revenue	<u>\$ 105,576,630</u>	<u>\$ 97,421,430</u>

7. CHARITY CARE AND CONTRACTUAL ADJUSTMENTS

It is the Hospital's policy to provide care to patients for all charges in excess of those realizable from third-party payors. Following that policy, charges foregone, based on established rates, totaled approximately \$85,800,000 and \$74,200,000 in 2015 and 2014, respectively. Management's estimate of costs incurred to provide charity care were \$65,500,000 and \$56,200,000 in 2015 and 2014, respectively.

The Hospital also participates in TennCare and other states' Medicaid programs. Under these programs, the Hospital provides care to patients at payment rates, which are determined by state governments. The Hospital recorded gross patient charges to Medicaid patients totaling approximately \$184,300,000 and \$170,700,000, and recorded net revenue of approximately \$32,600,000 and \$30,200,000 in 2015 and 2014, respectively. This resulted in a total contractual adjustment related to Medicaid programs of approximately \$151,700,000 and \$140,500,000, or 82%, of Medicaid program charges for 2015 and 2014, respectively.

In addition to the patient care benefits described above, the Hospital provides significant research benefits to the broader community and other outreach programs.

8. EMPLOYEE RETIREMENT BENEFIT PLAN

The Hospital sponsors a defined contribution retirement annuity plan, generally covering all employees who have completed one year of service. The plan requires that the Hospital make annual contributions based on participants' base compensation and employment classification. The plan allows individuals to begin making contributions to the plan as pretax deferral as soon as administratively feasible after hire date. Hospital contributions are 50% vested after two years of service and 100% vested after three years of service. Employee contributions are 100% vested immediately. Total cash contributions to the plan were approximately \$19,100,000 and \$18,900,000 for the years ended June 30, 2015 and 2014, respectively.

9. ALSAC

The accompanying consolidated financial statements do not include the individual accounts of ALSAC. Because of the Hospital's relationship as ALSAC's sole beneficiary and the overall financial interrelationship of the Hospital and ALSAC, the Hospital's interest in the net assets of ALSAC is reported in its statements of financial position, with corresponding changes in those net assets reported in a "quasi-equity method" in the statements of activities. A summary of the financial statements of ALSAC as of June 30, 2015 and 2014, and for the years then ended is as follows:

	2015	2014
Assets:		
Cash and investments	\$3,400,100,541	\$3,250,712,696
Other assets	<u>116,785,147</u>	<u>105,656,743</u>
Total assets	<u>\$3,516,885,688</u>	<u>\$3,356,369,439</u>
Total liabilities	<u>\$ 64,478,958</u>	<u>\$ 57,530,305</u>
Net assets:		
Unrestricted	2,512,082,269	2,317,652,900
Temporarily restricted	<u>66,439,327</u>	<u>66,082,159</u>
Permanently restricted	<u>873,885,134</u>	<u>915,104,075</u>
Total net assets	<u>3,452,406,730</u>	<u>3,298,839,134</u>
Total liabilities and net assets	<u>\$3,516,885,688</u>	<u>\$3,356,369,439</u>
Revenues, gains, and other support	<u>\$1,093,944,518</u>	<u>\$1,374,901,463</u>
Expenses:		
Hospital support	589,461,640	530,494,893
Other program services	<u>74,851,933</u>	<u>71,310,201</u>
Supporting services	<u>274,969,658</u>	<u>242,814,949</u>
Total expenses	<u>939,283,231</u>	<u>844,620,043</u>
Loss from disposal of property and equipment	<u>(320,859)</u>	<u>(384,958)</u>
Net assets transferred to the Hospital	<u>(777,832)</u>	<u>-</u>
Changes in net assets	<u>153,567,596</u>	<u>529,896,462</u>
Net assets—beginning of year	<u>3,298,839,134</u>	<u>2,768,942,672</u>
Net assets—end of year	<u>\$3,452,406,730</u>	<u>\$3,298,839,134</u>

Investments—The composition of ALSAC's investments as of June 30, 2015 and 2014, is as follows:

	2015	2014
Global equity	\$ 1,298,185,855	\$ 1,226,036,929
Marketable alternative	983,780,032	818,217,830
Real assets	351,653,568	475,178,829
Private equity	282,567,085	214,684,193
Fixed income	325,560,101	318,992,154
Cash	<u>42,514,931</u>	<u>67,919,456</u>
 Total	 <u>\$ 3,284,261,572</u>	 <u>\$ 3,121,029,391</u>

Marketable alternative investments include hedged equity, distressed debt, and multi-strategy investments. ALSAC is obligated under certain investment contracts to periodically advance funding up to contractual levels. Such commitments were approximately \$412,720,000 and \$338,630,000 at June 30, 2015 and 2014, respectively.

The composition of net investment income for the years ended June 30, 2015 and 2014, is as follows:

	2015	2014
Net realized and unrealized investment gains	\$ 3,365,693	\$ 364,694,402
Interest and dividend income	25,578,019	26,681,448
Investment expenses	<u>(974,117)</u>	<u>(952,546)</u>
 Net investment income	 <u>\$ 27,969,595</u>	 <u>\$ 390,423,304</u>

Fair Value Measurements—ALSAC accounts for assets and liabilities measured at fair value using ASC Topic 820, *Fair Value Measurement*. Certain assets and liabilities are required to be recorded at fair value on a recurring basis, while other assets and liabilities are recorded at fair value on a nonrecurring basis, generally as a result of impairment charges. Under ASC Topic 820, fair value refers to the price that would be received to sell an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants at the measurement date. Assets measured at fair value on a nonrecurring basis include long-lived assets.

The guidance enables the reader of the financial statements to assess the inputs used to develop those measurements by establishing a hierarchy for ranking the quality and reliability of the information used to determine fair values. The fair value of cash, receivables, accounts payable, accrued expenses, and annuity obligations approximate their carrying values. ALSAC considers the carrying amounts of all working capital to approximate fair value because of the short-term and/or nature of the instrument. Investments with readily available actively quoted prices, or for which fair value can be measured from actively quoted prices, generally, will have a higher degree of market price observability and a lesser degree of judgment used in measuring fair value. In the absence of actively quoted prices and observable inputs, ALSAC estimates prices based on available historical data and near-term future pricing information that reflects its market assumptions.

The following describes the hierarchy of inputs used to measure fair value and the primary valuation methodologies used by ALSAC for investments measured at fair value on a recurring basis:

Level 1—Inputs are unadjusted, quoted prices in active markets for identical assets or liabilities that the reporting entity can access at the measurement date.

Level 2—Inputs are other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3—Inputs are unobservable and significant to the asset or liability, and include situations where there is little, if any, market activity for the asset or liability.

Most investments classified within Level 2 and Level 3 consist of the shares/units (or equivalent ownership interest in partner's capital) in investment funds rather than direct ownership in the funds' underlying assets. Since the NAV reported by each fund is used as a practical expedient to estimate the fair value of ALSAC's ownership interest, the fund's classification within Level 2 or Level 3 of the fair value hierarchy is based on ALSAC's ability to redeem its interest in the fund, or a portion thereof, at the financial statement measurement date or within the near term. ALSAC considers the near term to be the period up to one calendar quarter after the measurement date.

ALSAC's assets and investments by asset class and fair value hierarchy level as of June 30, 2015 and 2014, are as follows:

	2015			
	Level 1	Level 2	Level 3	Total
Global equity	\$ 373,228,283	\$ 873,264,492	\$ 49,693,080	\$1,298,185,855
Marketable alternative	14,366,450	481,412,677	488,000,905	983,760,032
Real assets	137,803,567	53,125,766	160,724,235	351,653,568
Private equity	-	-	282,567,085	282,567,085
Fixed income	49,508,998	276,051,103	-	325,560,101
Cash	42,514,931	-	-	42,514,931
Total	<u>\$617,422,229</u>	<u>\$1,685,854,038</u>	<u>\$980,985,305</u>	<u>\$3,284,261,572</u>

	2014			
	Level 1	Level 2	Level 3	Total
Global equity	\$ 383,524,389	\$ 811,207,235	\$ 31,305,305	\$1,226,036,929
Marketable alternative	38,235,090	382,109,639	397,873,101	818,217,830
Real assets	210,714,309	79,810,237	184,654,283	475,178,829
Private equity	-	-	214,684,193	214,684,193
Fixed income	62,933,436	256,058,718	-	318,992,154
Cash	67,919,456	-	-	67,919,456
Total	<u>\$763,326,680</u>	<u>\$1,529,185,829</u>	<u>\$828,516,882</u>	<u>\$3,121,029,391</u>

There were no significant transfers between Level 1 and Level 2 (asset-level reclassifications) during the fiscal years ended June 30, 2015 and 2014.

The changes in assets by asset class measured at fair value for which ALSAC used Level 3 inputs to determine fair value for the years ended June 30, 2015 and 2014, are as follows:

	Global Equity	Marketable Alternative	Real Assets	Private Equity	Total
Beginning balance—June 30, 2013	\$24,985,022	\$344,943,345	\$157,891,058	\$182,067,616	\$700,882,041
Transfers into Level 3 (a)	-	10,743,500	-	-	10,743,500
Transfers out of Level 3 (c)	-	(37,305,008)	-	-	(37,305,008)
Purchases	-	74,000,000	34,101,557	44,674,191	152,775,748
Sales	-	(23,063,223)	(9,537)	-	(23,072,760)
Distributions	-	(13,019,217)	(30,896,524)	(46,511,853)	(96,427,594)
Interest and dividends	-	-	4,075,491	3,395,027	7,470,518
Realized gain (b)	-	7,857,046	18,178,108	22,002,842	48,035,995
Unrealized (loss) gain (b)	<u>6,320,283</u>	<u>33,716,658</u>	<u>6,314,130</u>	<u>9,063,370</u>	<u>55,414,441</u>
Ending balance—June 30, 2014	31,305,305	397,873,101	184,654,283	214,681,153	828,516,882
Transfers into Level 3 (d)	24,627,440	-	-	-	24,627,440
Transfers out of Level 3 (c)	-	(33,784,275)	(24,627,440)	-	(58,411,715)
Purchases	-	117,108,500	39,083,968	73,412,545	229,673,013
Sales	-	(157,869)	(40,876)	-	(198,745)
Distributions	(8,031,277)	(692,096)	(50,109,550)	(50,316,943)	(105,149,866)
Interest and dividends	26	136,469	4,951,893	3,665,343	8,754,731
Realized gain (b)	2,684,532	460,533	31,027,409	30,292,763	64,465,237
Unrealized (loss) gain (b)	<u>(892,946)</u>	<u>5,986,542</u>	<u>(24,215,452)</u>	<u>10,825,184</u>	<u>(1,293,672)</u>
Ending balance—June 30, 2015	<u>\$49,693,080</u>	<u>\$488,000,905</u>	<u>\$169,724,235</u>	<u>\$282,567,055</u>	<u>\$980,985,305</u>

- (a) Transfers into Level 3 relate to the reclassification of investment funds, in full or in part, that were not redeemable at the measurement date or within one quarter near term. Transfers into Level 3 are measured as of the beginning of the year.
- (b) The total amounts of realized gain and unrealized (loss) gain are included in net investment income on the statement of activities.
- (c) Transfers out of Level 3 relate to the expiration of redemption lock-ups with the exception of the fund class change strategy shift of \$24.6 million in 2015.
- (d) Transfers into Level 3 relate to a class change in a fund with a strategy shift from Real Assets to Global Equity. Transfers into Level 3 are measured as of the beginning of the year.

ALSAC's policy is to recognize transfers in and transfers out of Level 3 securities as of the actual date of the event or change in circumstances that caused the transfer.

ALSAC uses fund NAV as a practical expedient to estimate the fair value of ALSAC ownership interest for funds which (a) do not have a readily determinable fair value and (b) prepare their financial statements consistent with the measurement principles of an investment company or have the attributes of an investment company.

The investments in investment funds (in partnership format) by major category as of June 30, 2015 and 2014, are as follows:

2015	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Global equity (a)	\$ 394,918,930	\$ -	Daily, monthly, quarterly	0-60 days
Marketable alternatives (b) (c)	\$20,210,538	\$ -	Monthly, quarterly, annually, greater than one year	30-180 days
Real assets (d) (e)	171,586,504	150,794,003	Not redeemable, monthly, quarterly	0-90 days
Private equity (e) (f)	281,067,738	261,926,477	Not redeemable	
Fixed income (g)	<u>55,776,106</u>	<u>-</u>	Monthly	30 days
Total	\$ 1,703,556,816	\$ 412,720,480		

2014	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Global equity (a)	\$ 397,219,605	\$ -	Daily, monthly, quarterly	0-60 days
Marketable alternatives (b) (c)	780,434,353	\$ -	Monthly, quarterly, annually, greater than one year	30-180 days
Real assets (d) (e)	211,029,278	135,544,302	Not redeemable, monthly, quarterly	0-90 days
Private equity (f)	213,156,172	203,085,915	Not redeemable	
Total	\$ 1,601,839,408	\$ 338,630,217		

There is approximately \$21,408,000 across nine funds undergoing full redemption from which ALSAC receives regular distributions, as stated in the funds' liquidity terms, or through liquidation by fund managers of underlying, illiquid securities. Liquidation of approximately \$18,662,000 is expected to be completed within the next year. Illiquid balances expected to be distributed in the longer term remain from funds terminated in 2005, 2008, 2010, 2012, and 2013 totaling approximately \$299,000, \$499,000, \$632,000, \$282,000, and \$1,034,000, respectively.

- (a) Includes investments in global equity and long/short equity hedge funds. The long/short equity funds include short positions as well as long positions and use leverage. Managers in this allocation pursue diversified strategies covering multiple capitalizations, styles and geographic focus. Some funds may be subject to lock-up provisions.
- (b) Includes hedge fund strategies such as hedged equity, multi-strategy, arbitrage, global macro, distressed securities, and open mandate strategies. Underlying investments are primarily liquid instruments and their derivatives in fixed income, asset backed securities, currencies, trade claims, commodities, and equities. The funds include short positions as well as long positions and use leverage.
- (c) Includes funds that may have lock-up provisions or invest in private investments which are typically segregated into "side pockets" (a separate share class) and are not available for redemption until the investment is liquidated by the manager. The time at which the investments in side pockets will be liquidated cannot be estimated.
- (d) Includes funds that invest in a variety of real assets that include public and private real estate, real estate related debt and securities, public and private oil and gas and other energy related investments, timber, commodities, precious metals, public and private mining companies.
- (e) Includes illiquid investments held in limited partnership funds. The nature of these illiquid investments is such that distributions may be received through acquisition, sale or liquidation of the underlying assets of the funds. As a result, the timing of distributions from these illiquid investments is uncertain.
- (f) Includes investment mandates for global private equity such as leveraged buyouts, growth equity, venture capital and distressed investments. The nature of these illiquid investments is such that distributions may be received through acquisition, sale or liquidation of the underlying assets of the funds. As a result, the timing of distributions from these illiquid investments is uncertain. The funds in this category do not permit redemptions.
- (g) Includes global fixed income investing in developed and emerging market fixed income securities and may use currency hedging.

10. BUSINESS AND CREDIT CONCENTRATIONS

The Hospital routinely obtains assignment of (or is otherwise entitled to receive) patients' benefits payable under their health insurance programs, plans, or policies (e.g., Medicaid, Blue Cross, preferred provider arrangements, and commercial insurance policies).

The mix of accounts receivable from third-party payors, net of contractual allowances, as of June 30, 2015 and 2014, is as follows:

	2015	2014
Commercial insurance	60 %	46 %
Medicaid	11	29
Blue Cross	27	23
Other third-party payors	2	2
 Total	 <u>100 %</u>	 <u>100 %</u>

11. FINANCIAL INSTRUMENTS

The carrying amounts of all applicable asset and liability financial instruments reported in the consolidated statements of financial position (except debt instruments) approximate their estimated fair values, in all significant respects, as of June 30, 2015 and 2014. Fair value of a financial instrument is defined as the amount at which the instrument could be exchanged in a current transaction between willing parties.

The fair values of the debt instruments have been estimated using interest rates currently available to the Hospital for borrowings having similar character, collateral, and duration. The aggregate fair value of such instruments approximated \$215,000,000 and \$226,300,000 as of June 30, 2015 and 2014, respectively.

12. SELF-INSURANCE PROGRAMS

The Hospital is self-insured for the following:

- Comprehensive general and professional liability coverage up to \$2 million per claim and \$7 million in the aggregate, with \$100 million of excess claims-made coverage above the self-insured retentions. The reserve for the estimated ultimate costs of both reported claims and claims incurred, but not reported was approximately \$1,700,000 as of June 30, 2015 and 2014 and is included in the consolidated statements of financial position as other long-term liabilities.
- Workers' compensation liabilities up to a specific retention of \$500,000, with excess coverage at statutory limits. The reserve for the estimated ultimate costs of both reported claims and claims incurred, but not reported was approximately \$1,000,000 and \$1,200,000 as of June 30, 2015 and 2014, respectively. The reserve is included in the consolidated statements of financial position as other long-term liabilities.

- Employee health coverage up to \$400,000 per covered individual per claim with no lifetime limit. The reserve for the estimated ultimate costs of both reported claims and claims incurred, but not reported was approximately \$4,100,000 and \$3,900,000 as of June 30, 2015 and 2014, respectively. The reserve is included in the consolidated statements of financial position as employee health liability costs.

The Hospital also has substantial excess liability coverage available under the provisions of certain claims-made policies. To the extent that any claims-made coverage is not renewed or replaced with equivalent insurance, claims based on occurrences during the term of such coverage, but reported subsequently, would be uninsured. Management believes, based on incidents identified through the Hospital's incident reporting system, that any such claims would not have a material effect on the Hospital's consolidated results of operations or financial position. In any event, management anticipates that the claims-made coverage currently in place will be renewed or replaced with equivalent insurance as the term of such coverage expires. Excess policies for professional liability coverage, workers' compensation coverage, and employee health coverage expire on May 1, 2016, January 1, 2016, and December 31, 2015, respectively.

13. LEASES

Rental expense for all operating leases was approximately \$1,900,000 and \$1,600,000 for the years ended June 30, 2015 and 2014, respectively.

A schedule by year of future minimum lease payments under operating leases as of June 30, 2015, that have initial or remaining lease terms in excess of one year is as follows:

Years Ending June 30	
2016	\$ 1,532,667
2017	688,408
2018	264,554
2019	191,227
2020	<u>62,570</u>
 Total	 <u>\$ 2,739,426</u>

The Hospital conducts its operations from leased property and facilities, which includes certain land, administration facilities, three parking garages, patient care facilities, and research facilities. The term of the lease of the aforementioned property and facilities between the Hospital and ALSAC is 100 years, commencing December 31, 1998, and expiring December 31, 2098. This lease is classified as a capital lease by the Hospital.

An analysis of leased property under the Hospital's capital lease by major classes as of June 30, 2015 and 2014, is as follows:

	2015	2014
Land improvements	\$ 7,886,401	\$ 6,670,104
Buildings and improvements	<u>822,534,469</u>	<u>636,677,304</u>
	830,420,870	643,347,408
Less accumulated depreciation	<u>(434,157,136)</u>	<u>(396,980,438)</u>
	<u>\$ 396,263,734</u>	<u>\$ 246,366,970</u>

There are no future minimum lease payments under this capital lease.

14. COMMITMENTS AND CONTINGENCIES

The Hospital is involved in various claims and matters of litigation that arise in the normal course of business. Although the outcome of these proceedings and claims cannot be determined with certainty, the Hospital's management is of the opinion that the outcome will not have a material adverse effect on the financial statements.

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