2""3,!

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 $\begin{array}{l} G \&\&!2)!0/\&/@!\$2\,,0!2(!1*/!(2\&\&2.\$,H!I22[0!\$)/!)/X4\$)/+!"`W/K10!S\#401!I/!64)@*\$0/+!(2)!\$!V\$\,,+\&/`@2\#6\$!\$I\&/!+/L\$@/TJ!2)!0/\&/@!\$2\,,0!.\,\$\&\&!I/!+\$H\$!\$'/+!(2)!014+/\,,103! \end{array}$

U, !\$++#1%2, !12!1*/!I22[0!&%01/+!I/&2.J!*\$, +2410!. %&&!I/!6)2L%+/+!2, !B\$, L\$03!

Y/, /) \$ & ! 122 [0!12!6) 2L \$ + / ! I) \$ / (! 2L /) L \$ / . 0! \$, + ! H & 2I \$ & ! / K 1 / , 0 \$ 2, ! 2 (!) / & \$ H \$ 2, 0'!

a %å/!Y)//,J! / "#\$%"&'("%) *&+&, -./&01#.2&'32.#45627#3!\$?K(2)+!b, %L/)0%1F!7)/00J!]9]9T! A%,+\$!R 22+*/\$+J!81.7(27%372/*&+&, -./&01#.2&'32.#45627#3!\$?K(2)+!b, %L/)0%1F!7)/00J!]9C>T!

5\$#\%/, !V/2., J!954417() *\& +\&, -./\&01#.2\% '32.#45627#3!\\$?\%(2)+!b, \%L/)0\%1F!7)/00J!]9C_T! V\%#!V,2!!J!:73457() *\& +\&, -./\&01#.2\%'32.#45627#3!\\$?\%(2)+!b, \%L/)0\%1F!7)/00J!]9C;T!

 $B * \ b \land 0 ! N \$) * \$ + \$ \$, J! 8 1.7 (27\% 3 \& B \#. (17A \& B \#. "4@74 - * \& HSA \% 3473 ; \& : #.7C#3 (> \& U - -A - 373 ; \& ? . \% 6276 - (\& SB \& L \& , ! U , 0 ! \$! 41 / ! 2 (! B *) \ 0 ! \$! \$, ! A \$! 4) H \& \& \$! 0 ! 4 + \% / 0 T \& S " /) + \# \$, 0 J!] 99 < T 3!$

N/, HH\$, H!c\$, HJ!81.7(27%3&0#67%"&+627#3&%34&D5"-&L%@&73&8173-(-&0#67-27-(&SO14+*/0!%, ! B*)%01%\$, %IF!%, !B*%, \$T!SA/*%H*!b, %L/)0%IF!7)/00J!]9]CT3!

5\$L%+!B2##%,0J!'("%)&73&0%547&+.%\$7%!SB2),/&&!b,%L/)0%1F!7)/00J!]9C:T3!

Q\$)F!A24!B2+#\$,`R \ldots, +! i \, !j *24J!05A.%65"25.%"\! #(A-"*\9.74;73; \H%(2\%34\B-(2! \$R \ldots+19)]]]]]

73!5/!a/4%!S/+3TJ!H)-.;73;&O%721*&L-((#3(&G.#)&I7((7#3&:7(2#./&73&+(7%!SR %&&*#!B\$))/F! 74I&%0*%,HJ!]9]9T3!

Q%)%\$#!G+/,/FJ!D-65;--&U7%(A#.%!\$R %&&\$#!B\$)/F!741&*%,HJ!]9C8T3!

 $\label{eq:constraint} Y/2((!D$)1|J!Q3!?)!&A!Q3!Ek*#J!+) \\ $((%4#.(dD-6#367'')%27#3dSR & & B$)/F!74Id(0*%,HJ!)]9]_T3! \\$

W/, ^%, !A\$*[6\$J!*L-%E73; &95441%**&+&*K*7\$-2%3&*I #3T*<(*&H36#532-. &@721&21-&L7E73; & ! #4*!\$R**&[/)! D240/J!]9C=T3!

! ! ''+),-&)-5+')-*-#\$,&!

$$\begin{split} D\$, +2410!0*24\$ + !I/!(2) \#\$11/+!\$0!(2\&\&2.0'!\$T!.)\$1/!, \$\#/!2(!\$)!\$@\&/!\$, +!\$41*2)!2, !!26!2(!6\$H/J! \\ \$\&2, H!. \$1*!, \$\#/!2(!6)/0/, 1/)m!IT!6)2L\$+/!\$!Cn]`6\$H/!04 \# \#\$)F!2(!!*/!\$)!\aleph@\&/m!F24! \#\$F!40/! \\ ,\$))\$1\%L/J!I4\&\&/1!62\%, 10J!2)!\$!@2 \#I\%, \$1\%2, 3!E/!04)/!12!*\%H*\&MH*1!X421\$1\%2, 0!1*\$!!$)/!\% \#62)1\$, 1m!@T! \\ 6)2L\%+/!]`_!X4/01\%2, 0!\$1!!*/!I2112 \#!2(!!*/!6\$H/!(2)!6200\%I\&!!@400\%2, m!+T!#\$[/!/, 24H*! @26\%/0!(2)!24)!/, 1\%)/!@\&\$00!(2)!F24)!+\$Fo0!+\%0@400\%2, 3!W*/0/!*\$, +2410!. \%\&!0/)L/!\$0!\$!)/L\%/.! \\ 6\$@[/1!(2)!1*/!/K$#\%, \$1\%2, 03!! \end{split}$$

 $\begin{array}{l}]3!?, /! \overline{7\$6} /! SC: 1 \ T3! W*/!6\$6/)! . \ \$\&\&! I/!H)\$+/+!2, !!*/!I\$0\%0!2(!@2, 1/, 1J!H)\$\# \#\$)J!0IF\&/J!\$, +! \\ 6)/0/, 1\$1\%2, !S0//! / . \%473; \&'30\%.) \ \%27\#3\&\$, +! '3(2.5627\#3(\&\%.\&?\%A-.\&O\#.) \ \%2273; \&0/@1\%2, 0!1/\&2. \ T3! \\ P4\&/0!/H\$)+\$, H!6\&\$H\$)\%0 \#! . \ \&\&\&!I/!0!) \&\&E!/, (2)@/+3!7\$6/)0!0*24\&+!I/!C:99!. 2)+0!\%, !\&/, H1*3! \\ 7\&/\$0/!\$1\&\&e\%/!*\&\&!I22[!!\&l\&/0!S/\&@/61!(2)!, $#/0!2(!0\&@)/+!I/KI0T!\$, +!(2)/\!H, !. 2)+03! a 21/'!$0!$! \\)/\#, +/)J!I\$@[46!$\&\&!F24)!. 2)[J!/06/@1\%\&\&E!F24)!6$6/)0J!$0!/KI/, 0\%2, 0!. \ \&\&\&!, 21!I/!H\&L/, !+4/!12! \\ @2\#641/)!6)2I\&/\# 03! \\ \end{array}$

!"#\$%'()*+'&% -.%'*0/.*%'1%)*&23-/*% 0+)%0+0.45*%6*%)4+07-2&%180%903'-2(.03%^-.:-1+%0231&&% 2(.'(30.%)+)%*:-1+0.%'1(+)03-*&!')*71+&'30'*%631(:6% ,3'-+:%(/&'0+'-0.%'+:0:*7*+'%18%30+&;3*:-1+0.% 21++*2'-1+&<'

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 $\begin{array}{l} _3!B\$0/!0!4+F!6)/0/, 1\$1\$2, \$SC: 1 \ T3!O14+/, 10! . \$\&\&\&1.2)[\,!\&, !65\$)0!12!6)/0/, 1!\$!@\$0/!0!4+F!2!1!*/!@\&\$00!\\ 2, @/!12. \ S)+!!*/!/, +!2(!!*/!0/ \#/0!/)3!W*/!@\$0/!0!4+F! . \&\&1@2 \# 6$)/!\$, +!@2, 1)\$0!!)/\&H\$2, 0!\$, +!\\ @4\&14)/0!\&, 1\$1!\&/\$0!!1. 2!\&2@\$1\&2, 0!\&, !. *\&@*!. /!*\$L/!L/, 14)/+3!N4)1*/)!+/1$\&&0!2, !1*&0!$00\%H, \#/, 1!\\ . \&\&1I/!6)2L\$+/+!\&, !@\&\$003!!!\\ ! \end{array}$

_3!W.2!"K\$#%,\$1%2,0!\$_91T3!"\$@*!/K\$#%,\$1%2,!@24,10!(2)!C:1!12.\$)+!F24)!@24)0/!H)\$+/3!

>3!N%, \$&! "K\$ #%, \$1%2, !S_9 1 T3!

1)%.'#1&, !%0-&

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W*/!(%, \$&!H)\$+/!(2)!\$&&!\$00%H, #/, 10J!/K\$#0J!+%0@400%2, 0J!/+4@\$1%2, \$&!/K6/)%/, @/0J!\$, +!\$11/, +\$, @/!

:=`:91'!b,\$@@/61\$I&/!\$,+!4,6\$00\$I&/!.2)[3!

'#,\$)+!\$'"#&(")&/%/-)&(")*%\$\$'#1&

 $\begin{array}{l} C_{3} [1, 1] \times [1 + 1] \times [1$

>3!O/1!F24)!&%,/!06\$@%,H!12!+24I&/3!

:3!b0/!2, /`%, @*!#\$)H%, 0!2, !\$&&!0%+/03!

;3!52!,21!40/!@2,1)\$@1%2,0!\$4,&/00!%,!2)%H%,\$&!X421\$1%2,T3!\$52,013T!

<3!7&\$@/!6\$H/!,4#I/)0!%,!1*/!&2./)!@/,1/)!2(!\$&&!6\$H/0J!/K@/61!1*/!(%)013!

 $83! U1 \$ \& \& \& h^{1} ! I22 [!! \\ \& h^{0} ! , +!, 2, ` ", H \\ \& h^{0} ! . 2) + 0! \\ S, 2!, //+! \\ I2! 4, +/) \\ \& h, /T!$

 $= 3! R \times 1/1! \times 1/6\% / 1\% \times 1/1\% \times$

C93! " # \$\\!1*/!6\$6/)!+\)/@1&F!12! # /!\, !/\1*/)! R ? P 5 !2)!7GY "O!(2) # \$1!\$, 21!75NT3!!

"\$6-)&

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_3!P2&/!. $kk!I/!!$[/,!$!!!*/!I/H,, ,, H!2(!/$@*!@&$00!6/)%2+3!N$%&4)/!!2!$66/$)!(2)!$,!/K$#%,$1%2,! . %&&!)/04&!!%,!$,!ZN\!(2)!!*$!!/K$#%,$1%2,3!! !$

>3!A/@14)/0!#\$F!,21!I/!)/@2)+/+J!4,&/00!.%1*!1*/!6/)#%00%2,!2(!1*/!6)2(/002)3!

! :3!7&/\$0/!@*/@[!B\$,L\$0!(2)!*\$,+24103!!

!

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! ;3!7&/\$0/!+2!,21!40/!@2#641/)0!2)!@/&&!6*2,/0!%,!@&\$003!U(!F24!,//+!12!40/!F24)!@/&&!6*2,/J!6&/\$0/! &/\$L/!!*/!@&\$00)22#!2)!.\$%1!4,1%&!I)/\$[3!E/!(4&&F!*4#\$,3!

<3!7%/\$0/!@2,1\$@1!1*/!6)2(/002)!%(!F24!*\$L/!\$,F!X4/0!%2,0!2)!@2,@/),0'!<u>(\$)*\$+%\$, - ./0!#2,13/+4</u>3!

$$\begin{split} &83!E/!*\$66F!\$, !@\$8003!\$B24, !\&/00!6/26\&/!\$)24, +!!*/!.2)\&+!.24\&+!!\$L/!46!/L/)F!*\$, H!!2!I/!0\$1!\$, H!!\\ &\$, !F24)!0/\$!!!2!\&/\$), 3!c24!. \\ &\$\&!0//!\#\$, F!2(!!*/0/!/\$H)!0!4+/, 10!\$, !24)!!)\$L/\&03!!! \end{split}$$

	!
	$ \begin{array}{l} \hline D_{-'',7}^{*} \# 3 \& 173 \& 8173 \& 8173 \& 8173 \& 805. E7E \& 1806 \& 846 \& 847 \& 8173 & 8173 \& 8173 &$

B24)0/J!ZO6/@%\$&!B24)0/'!e/040!\$,+!B2,1/#62)\$)F!P/&%H%2,0\!
!
e/)40\$&/#!b,%L/)0%1F!B2&&/H/!@4))%@4&4#'!!
ebB!/K1/,0%2,!12!e2)+\$,!
!

| ! *K1-*&<mark>N.21#4#S</mark>&815.61