

! E1102F\$GCH\$ I 0 . 10F\$JG I K\$ \$ " C " \$80 . E1-FL\$ . B06162 . 0\$

!!!

### !"#\$%&'()\*

!"#\$%&'()'\*+'",%-./%01%, 2 (3.4\$)5%'#-.,"&.6'(,(#\$%.7,",1\$2\$"#8. 9"':\$%('#-.0;.<+,(=,.>,'%?,"=(8.<@8.ABCD.

6'((\$\\#,\#'O"E..

%**&**\$ !"#\$%",#'0",+.F\$+,#'0"(8.G\$?(#\$%.9"':\$%('#-8.4#.H05'(8.7 I 8.CJJK.

'(\$ L'0+01-8.70"205#M.9"':\$%('#-8.H0"1.L%,")M8.N08.CJPQ\$\$.

### %\$%"!+'\$\*!,-!.'!)\$!\*

#)\*+\$ R0++\$1\$.0;.L5('"\$((.,"&.4\$)5\"#-.7,",1\$2\$"#.SABAAT \*\\\$(\$\"#\].

&,,-./\*0)\$#)\*+\$
R0++\$1\$.0;.L5('"\$((.,"&.4\$)5\"+-.7,",1\$2\$"#.SABACTABAAU.

**&**,,-./\*0)\$#)\*+\$
R0++\$1\$.0;.L5('"\$((.,"&.4\$)5\"#-.7,",1\$2\$"#.SABCJ T ABACU.

#/1).0-1\* R\$"#\$%.;0%.<%)#').4\$)5%'#-.,"&.F\$('+'\$")\$.SR<4FU.SABABVABACU.

\* R\$"#\$%.;0%.#M\$.4#5&-.0;.4\$)5%'#-8.R-?\$%8.W,X,%&(8.F\$(\*0"(\$.,"&.

/%\$\*,%\$&"\$((.\$RY44RWF/U.\$ABCZVABABU.

!1-21\*3\$#/1).0-1\* W02\$+,"&.4\$)5\"\"+-.,"&.[2\\1\\1\")-.7,",1\\2\\"\\1.

```
\&, -./*0)$! 1-4),,-1$$
                                                             W02$+,"&.4$)5%'#-.,"&.[2$\1$")-.7,",1$2$"#.SABACT*\$($"#U.
                                                              W02\$+,"\&.4\$)5\%'\#-.,"\&.[2\$\%1\$")-.7,",1\$2\$"\#.5"\&\$\%1\%,\&5,\#\$.,"&.
\&, /, 0*+0! 1-4),,-1$$
                                                              1\%, \&5, \#\$.*\%01\%, 2(8.4)M00+.0; 7, ", 1$2$"\#8.9"': $\%('\#-.0; .<+, (=, ...)
                                                              >, '%?, "=(.SABCPVABACU.
&44/5/*0)$6*.7508$$
                                                              6**, \% 2$"#.0;. \$0()'$")$(8.R0++$1$.0;.N, #5\%, +.4)'$")$(., "&.
                                                              7, \#M\$2, \#') (8.9"': \$\%('\#-.0;.<+,(=,.>,'\%?,"=(.SABABYABAAU.
9+,017.0-1$
                                                              W02\$+,"\&.4\$)5\%'\#-.,"\&.[2\$\%1\$")-.7,",1\$2\$"\#.5"\&\$\%1\%,\&5,\#\$.,"&.
                                                              1\%, \&5, \#\$.*\%01\%, 2(8.4)M00+.0; 7, ", 1$2$"\#8.9"': $\%('\#-.0; .<+, (=, ...)
                                                              >, '%?, "=(.SABCBVABCPU$
\&: ;7+.0$!1-4),,-1*
                                                             4)MOO+.0;. 7, ", 1$ 2$"#8.9"':$\('\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2}-.0\);.<\(-\frac{1}{2
$
                                                              R0++\$1\$.0; N, \#5\%, +.4)'\$")\$(., "\&. 7, \#M\$2, \#')(8.9"': \$\%('\#-.0; .<+, (=, ...))
                                                              >, '%?, "=(.SABBJVABCBU.
                                                              6$*,\\def 2$'\\def.0\; 7'+\\def,\def-4\)'\$''\\\s.,\\delta.\H\$,\&\\(M'\delta.\s<\delta 2-.FI\] RU\.
#)<*103)+0$="*/1$
                                                              RO++$1$.0;.H'?$%,+.<\\f\(8.9\'':\$\\('\f\-.0\);.<\+,(=,.>,'\\\?,\''=(.SABBZ T ABBQU.
% / % . "0*12 ( ) ( . 0*1% $ 3 ) ( / 4! " 5! +! ) &*
> 10011-41?
                                                                      F$)01"'X$&.?-.N0\\#M.<2\\\'),".<\\\0(\*,)\$.6\\$;\\(\$.R022,\\\&.
                                                                      SNIF<6U.^9_4_.N0\\#M\$\\".R022,\"\&.\$94NIF]\\WRI7U.;0\\.
                                                                      ;0%.)0Y&$:$+0*'"1.,"&.MO(#'"1.#M$.<%)#').$],+=.($%'$(.$6$)8.ABACU.
&@*1:AB1*+0?)./</)+0$
                                                                      4, a #00#M.40; # a , \$.1\\, \"#.\\$)'*'\$"#.; 0\\. #M\$.5(\$.0\; .L\$(\#. G 0\\(\#.
                                                                      4),+'"1.SLG4U., "&.]0#,+.9"&5*+'),#$&.F$,)M., "&.>\$b5$")-.
                                                                      $\ \ 9 F>U. a '\frac{1}{4}M'''...\$ a .; \$\ \dagge \dagge 0; \\ ''\ b 5 \\ - . \$MO 2 \\ \dagge + , \"\dagge \dagge (\\ \dagge ) 5 \\ \'\ \frac{1}{4} - ...\\ \dagge d.
                                                                      $2$\(\)1$"\)-.2\,"\,1\$2\$"\\.\$\\$5\)\,\\\"O"U.\$ABCQYABCPU.
$
                                                                      -**./0112223/+2*44*-/45*2+\$,3&4(1+&+6,(%&/17$+8*/17$+8*9)
```

```
()1C/.)?/DD-+$
                                 <+, (=, .4#, #\$./, \%" \%(M'*./\%01\%, 28.< @8.ABCC.
                                 !".\\$\)01"'\#'0".0;.&'(\#'"15'(M\$\&.(\$\\:')\$.,\"\&.(5\**0\\\\\#.0:.\\\\\\$.<+,(=,V
                                 70"10+', .4#, #\$./, \%#"\$\%(M'*./\%01\%, 2_.<(...45?d\$)#.7, ##$\%. [e*$\%#.
                                 $4 7 [U8.&$*+0-$&.a'#M.2$2?$\(.0:.\#M$.<+,(=..N,\#'0",+.\5,\\&.\#0.
                                 *,\\#')'*,\#\\.'".,.\#\\,'"'"1.\\$:\\#.a'\#M.2\\$2\?\\\(.0\;.\\\#M\\\\\\.7\\O''10\\-',\".
                                 [2$\%1$")-.7,",1$2$"\#.<1$")-\%.05\"\$.Q.\#0.CD\%.ABCC.
%/5/0*18\&@*1:..
                                 ZA.'".#0#,+8.'")+5&'"18.H$1'0".0;. 7 $%'#8. 7 $%'#0%'05(.4$%:')$. 7 $&,+.
                                 SfZU8.<%2-.R022$"&,#'0".7$&,+.SfDU.00'"#.4$%:')$.
                                 <)M'$:$2$"#.7$&,+...
                                 !";,"#%-.I;;')$%`(.L,(').R05%($8.CJPD.
= -33*+:*+0,$>/,0.
?)./</)+0.
                                 \$0\%1\$.R_{.}.7,\%(M,++.N,\#'0'',+.H\$,\&\$\%(M'*.< a,\%\&8.CJPQ.
\#/,0/+27/,"):$B1*:7*0).
                                 6'(#'"15'(M$&. 7 '+'#, %-.\%, &5, #$. 70" 205#M.9"':$%('#-8.CJPQ.
?)./</)+0...
                                 <+&$"./, \\#\'&1\$.H\$, \&\\(M'\*.< a, \\&\\.70\" 205\#M.9\\\':\$\\('\#-\\.CJPK\\\.
                                 CJPQ.
```

# &!%\$2')5\*!,-!.'!)\$!\*67879\*(:;<:=\*>?@A:BCDE:EF@G\*?:H\*2AI;=J\*>E:;<:=\* @A:BCDE:EF@GK\*

```
W4 [ 7 ..
              QJB..
                             4$)5%'#-.,"&.6'(,(#$%.7,",1$2$"#.SR,*(#0"$.R05%($U.
                             $>A>^ I "+'"$^W-;+$eU.
                             4#%,#$1').H$,&$%(M'*.S>A>^I"+'"$^W-;+$eU.
              QJK^QKQ.
              QCZ..
                             !"#$%",#'0",+.6'(,(#$%.7,",1$2$"#.S>A>^I"+'"$^.W-;+$eU.
                             R02*,\%,\#':\$.W02\$+,"\&.6\$;\$"(\$.,"\&.4\$)5\%'\#-.\$>A>^I"+'"\$U.
              OJD..
                             R02*,\%,\#':$.W02$+,"&.4$)5\%'\#-.$>A>\^I "+'"$U.
              gJZ.
                             H$,&$\(M'*.'".6,"1$\(05(.R0"\)\$e\((.S>A>\)\I"\+'"\$\\.W-:\$e\(U.
              gKQ..
                             L5("\$((.R0"\#"5'\#-.,"\&.R\%'('(.7,",1\$2\$"\#.S>A>^1"+'"\$U.
              ggK..
                             R02*, \%, \#': \$. [2\$\%1\$'') - .7, ", 1\$2\$''\#.$>A>^I''+'''\$U.
              gBD.
              CJK.
                             1$, 2?5'+&'"1.'"./5?+').4,;$#-.$>0%.F5%,+.<+,(=,.W0"0%(.!"(#'#5#$.
                            SF < W!U.S > A > U.
7 L<...
              QJD..
                             R4..
              gJZ^QPB..
                             F'(=.<",+-('(.h.6'(,(#$\%.F$)0:$\%-.$>A>^W-?\%'\&U.
                             !"#$%"(M'*.'".[2$%1$")-.7,",1$2$"#.SI"+'"$U.
L<..
              gKA..
              APB..
                             4*0\\#(.H\$, &\$\\(M'*.S>A>U.
              AJZ.
```

#### .!0!%.\$2\*-#L4'\$%&'()0.

```
$
                      G'(M''')=8.[8.R,\%+(0''8.R8.SABAA.
                                                                U.F5((',".!":,('0".0;.9=\%,'"\$.
                      >\$$X$(.\F5((', ".<\\)\\\)).<2?\\\\005\\\",\005\\\",\0:.!\\&0\\/,\)\\\;\\(.\\)(.\\005\\\",\005\\\",\005\\\\)
                       <'%.9"':$%('#-./%$(($
$
                       7 ,+'" 10 a (='8.0 \& R, \&+(0"\& R \& @'+#X\& H \& h.0, )0?(\& N \& SABAAU\& [ 2 ?\&&\&'"1.
                       7 $\#$0\%0+01'(\#(.''\#0.[2\%1\$'')-.I*\$\%,\#'0''(8.W02\$+,"\&.4\$)5\%'\#-.<;;,'\%(E.
                       /\%, ), &$ 2'). <;;, '\(\(\(\)(\)\)c O+5 2 \$.!!\(\)8. <\\\#')+\$.C_. a a a_\(\), \(\)(\(\)\(\)\(\)\\)+\$(\^ACCAK_.)
                       7)\$$8.4\8.L\$\%-8.@\8.h.R,\%+(0\8.R.\$ABAAU.9(\\1.]\M\$.L,+,\\)\$\&.
                      [e, 2*+\$].
                                                                                      8.
                                                                                         SCU8.DV
                      Cg_.F$#%'$:$&.;%02.
                      M##*(E^{\wedge})+5#$d05\%'',+(_)02^{'}''&e_*M*^{R}[F^{\wedge},\%#')+$^{:}'$a^{CBgBZ}.
$
                      RO2'(=$-8.0.8.H, \%, j, 1, 8. 7.8.R, \%+(0"8.R.6.8.SABACU_\$RM, \*#\$\%.gE.
                                                                                      .!"E. 7, (-(8.
                       <0.5 & (U.W, "&?00=.0;.4$)5%'#-.4)'$")$_.4*%'"1$%8.RM, 2_.
                      M##*(E^^&O' O\1^CB CBBD^JDPYZYZCJYKCDQCYAkKKYC.
                      R, \%+(0"8.R.6.8.SABABU.W02\$+, "\&.4\$)5\%+-.<), \&\$2')(.<\&,*#.#0.#M\$.
                      RIc!6YCJ./,"&$2')_.
                      [":'%0"2$"#_.
$
                      R, %+(0"8.R 8.L05;;, %&8.] 8.h.G00&a, %&8.6 8.SABABU.[e*+0%'"1., N$e5(.0;.
                      N,#'0",+.,"&.W52,".4$)5%'#-E.>00&.,"&.["$\1-.RM,\+\$"1$(.'".\#M$.9_4_.
                      <%)#').
                                                              SCU8.ZBYgB ..
$
                      L05;;, %&8. ] .0 8.R, %+(0"8.R 6 8.SABCJU.<.45%;,)$./\$($")$.;0\.\#M$.9 4.
                      N, : -.'''.\#M\$.<\%)\#')1.
                                                                     >,++8."0_.A_.
                      R, %+(0"8.R_8.H'##+$8.0_8.SABCJU_.!&$"#';-'"1.R0%$.]M$ 2 $(.;0%.,".!"#$1%,#$&.
                      W02\$+, "\&.4\$)5\%'\#-., "\&.[2\$\%1\$")-.7, ",1\$2\$"\#.[\&5), #'0"./\%01\%, 2.
                       9("1...N$ a. 7 $\#M0\&0+01-8.L$(\#VG0\%(\#.4),+'"1...
                                                                         .$ c 0+5 2 $.PU ..
                      L, &$\%8.W \cdot 8.R, \%+(0"\cdot 8.R \cdot 8.h.L05;;, \%\cdot 8.] \cdot 8.SABCgU.], +\$.0;.\# a 0. <\%)\#')(\text{E}.
                      ! 2 * , )#.0;.1$01%, *M-..;;$)#'"1.($)5%'#-., "&.&'(,(#$%.%$(*0"($.), *,?'+'#'$(.
                      ?$# a $$".N0%#M. < 2 $%'),.., "&. [5%0*$.
                                                                                       8. SAU8.
                      CAZVCgK_...
```

## ?)4)1)):\$!1-.)):/+2,\$

•

```
I 0")1$! 7D5/.*0/-+,\\\
!-:.*,0,\\\
H-+\$1)4)1)):.
```

. R,%+(0"8.R\_8.h.G'(M"')=8.[\_8.SABACU\_./O+,%./O+'#')(E.<%)#').!&\$"#'#'\$(.,"&.
#M\$.\%\$,#./Oa\$%(\_.R\$"#\$%.;O%.N,:,+.<",+-('(.SRN<U\_.RN<.],+=(E.<.

 $N, \#'0", +.4\$)5\%'\#-./0\&), (\#_...$ 

!!"#\$%&'"#'!!\$()%&\$\\$!&\$

4#,#\$ a '&\$.R0"#""5'#-.0;. I \*\$%,#'0"(./+,"""1.!"'#',#':\$.]%,'"""1. SR I I / U. / M, (\$.!., "&.!!8.>5"&\$&.?-.4#, #\$.0;.<+, (=,\_.SABCAYABCZU.  $SrAZA\&gDBU\&./!.R < 7 [FIN.R < FH4IN\&.R0/!.RF < ! \ .G!4[N...]$ > s CD. 9 < . ] c [/.;5"&'"1.rgJ8KBB8.p[e\*,"('0".0;.#M\$.L4[7.6\$1\\\$\$. RO2\*+\$#\$&.S'"#\$%",+U... ?-.<&&'"1.A.<&&'#'0",+.R0")\$"#%,#'0".\$R-?\$%.4\$)5%'#-.712#.,"&. [2\$\1\$")-.7\$&'),+.712#Ut8.F\$b5\$(#0\nd{0}.R<7[FIN.R<FH4IN8. 7 < F@.W[FF7 < NN]. > s CK.9 < > .4 # %, # \$ 1').F \$, # 0''.; 0 %. & \$: \$ + 0 \* 2 \$'' # .0; .7 , (# \$ % (.0); ...)4\$)5%'#-.,"&.6'(,(#\$%.7,",1\$2\$"#.\$7467U8.rDK8BBB8.F\$b5\$(#0%. R < 7 [FIN.R<FH4IN.  $> s CK.9 < . \] c [/.'''#',+.;5"&'''1.rPK&CBB.W4[7.u[e*,"('0".S"$a.$ )0")\$"#%,#'0"(U.;0%.L4[7.6\$1%\$\$t8.,&&'#'0",+.rAD8CCK.(5\*\*0\\|#'"1. )5%\\')5+52.&\\$:\\$+0\\*2\\$\\#\.F\\$b5\\$(\#0\\.R<7\FIN.R<FH4IN\\\.7<F@. W [ FF 7 < NN.  $> s Cg. 9 < . \ c \ [/.)0"#"5,#'0".;5"&'"18.rJC\BBB\W4 \ 7.p[e*,"('0".0;...)]$ L,)M\$+0%.0; [2\$%1\$")-.7,",1\$2\$"#./%01%,2t8.,&&'#'0",+.rCZ8CZP. (5\*\*0%#'"1.:'%#5,+.)+,((%002.&\$:\$+0\*2\$"#8.F\$b5\$(#0%.R<7 [FIN.R < FH4 I N8. 7 < F@.W [ FF 7 < NN.> s CZ.!"(#%5)#'0", +. [b5'\*2\$"#. < a, %&8.uc'#5, +.R+, ((%002.))&\$:\$+0\*2\$"#.(5\*\*0%#'"1.(-")M\0"05(.;,)\$.#0.;,)\$.\$>\]>\!.,"&.0"+\"\\$. &\$+':\$%-8t.rCP8BBB8.;5"&\$&.?-.#M\$./%0:0(#.I;;')\$8.F\$b5\$(#0%. R < 7 [FIN.R<FH4IN8.7<F@.W[FF7<NN.  $> s CZ.9 < . \ c / .)0$ "#'"5,#'0".;5"&'"18.rJC\\CBB\\W4[7.p[e\*,"('0".0)]. L, M\$+0%.0; [2\$%1\$")-.7, ",1\$2\$"#./%01%, <math>28t.F\$b5\$(#0%.R < 7 [FIN.R<FH4IN8.7<F@.W[FF7<NN... /%01%, 2.S] c [ /U8.;5"&'"1.S>'%(#Y#'2\$.;5"&'"1U.rJC8CgB8.W4[7.  $p[e^*,"('0".0;L,)M$+0%.0;[2$%1$")-.7,",1$2$"#./%01%,2t.$ F\$b5\$(#0%.R<7 [FIN.R<FH4IN8.7<F@.W[FF7<NN. /%0\*0(\$&."0#.;5"&\$&. !"5\*',#.R0225"'#-.0;,#M\$.<\\)#').4+0\*\$.\$!R<4U.7'#'1,#'0"./+,""'"18. >5"&\$&.?-.!R<48.\$rJg8PAQU8./!.0IWN./[NN!N\]IN8.R0/!.<H[R. L[NN]] 8.R0/!.R<7 [FIN.R<FH4IN.SABAAU.

N4>.N,: '1,#'"1.#M\$.N\$ a. <%)#').SNN<. ]%, )=.CU.<%)#').602,'". < a, %"\$((E.9<4."\$# a 0\%=.'".<\+,(=,.,"&.<\%)\#').\$9<4\Y<AU\8./!./[][F\8. G[LH[s&R0/!`(&R<7[FIN.R<FH4IN&]FIs.LI9>><F6&]0[44!R<...] < FF I N8.F\$b5\$(#\$&.< 205"#8.rC8DPD8BDC.oCJAPAKP. SABCJU.  $/!./[][F8.G[LH]s8.R0/!^4.R < 7[FIN.R < FH4IN8.7 < F]!N.$ 4]9[>[F8.@<FH.@!78.4][c[N.L94!N\[F8.F\$b5\$(#\$&.<205"#8. rC8CPA8ZgP.oCKZPPAZ.SABCKU. N4>.!"#\$%",#'0",+.R0++,?0%,#'0".0".W,X,%&.<((\$((2\$"#.,"&.F'(=.7 '#'1,#'0"8./!./[] [F8.G [LH[ s 8.R0/!.R< 7 [F I N.R<FH4 I N8. F\$b5\$(#\$&.<205"#8.rDg8ZQJ.oCgggBQK.SABCgU. # -+-1\*+:\$#)C)5-<3)+0\$67+:/+2\$ \$ 00M''(0''.4)M0+, %(M'\*.>05''&, #'0''.S+\$, &U.;0%.!''&'1\$''05(./\$0\*+\$(...))/%01%, 2 (.; 0%.L5('"\$((.[&5),#'0".rZB8BBBT -\$,%.C.SABAAU.\$ \$ 9('?\$++'.R0,+.7'"\$.rCDK8BBB.SABACU. Y.rCBB8BBB.#0.\$"&0 a \$&.W4 [ 7.()MO+,%(M'\*.. Y.rDK8BBB.#0.W-;+\$e.H\$,%""1.R\$"#\$%.(\*,)\$.&\$:\$+0\*2\$"#. /010^45 2 '#0 2 0. 7 '"\$(8. r KB8BBB.\$ABCK T ABCDU. Y.rAB&BBB.R+, ((%002.6\$:\$+0\*2\$"#.SABCDU. $R+,((\%002.)0''(\%5)\%'0''^<5\%02.\%'0''.$ Y.rAB&BBB.R+, ((\%002.6\\$:\\$+0\*2\\$"\#.SABCQU. <5#02,#'0"^#\$)M"0+01-.'2\*%0:\$2\$"#... Y.rCB\(\)BBB.R+, ((\(\)002.6\\$:\\$+0\\*2\\$\"#.\\$ABCKU. >5%"'#5%\$^<5#02,#'0".'2\*%0:\$2\$"#. \+\$"",.G00&.[e)\$++\$")\$.\".4-(#\$2(.!\#\$1\%,\#\0\".,\\&.<\\,+-\#\)(.SABCgU. . Y.rAK\BBB.RO5\(\\$.\&\\$:\\$+0\\*2\\$'\#.\^,5\#02,\#'0''.(5\\*\\*0\\\#.;0\\.R-?\\$\\.4\\$). 7,",1\$2\$"#.)0")\$"#%,#'0".

!!"#\$%&'"#'!!\$()%&\$\\$!&\$

```
4\$)5\%'\#-.<), \&\$2').<++',")\$.SN<64<<U.4-2*0('528.R0+0\%,&0.
                            4*%'"1(8.R I
                            R, %+(0"8.R_8.h.R, %%8.W_8.SABAB8.N0:U_.
                                                                               9 4 N0\\#M\$\\".
                            R022, "&8.<%)#').!";+5$")$%.4$%'$(8.c'\#5,+_.
                            R02'(=\$-8.0\_8.H,\%\%,j,1,8.7\_8.h.R,\%+(0"8.R\_8.SABAB8.N0:U\_.
                                      CZ\#M.<""5,+.W02\$+,"\&.6\$;\$"(\$.,"\&.4\$)5\%\#-.[\&5),\#'0".
                            45 2 2 '#8. c '\#5,+\_8.R\$"\#\$\h.;0\\.W0 2 \$+, "\&. 6\$;\$"(\$., "\&.4\$)5\\'\#-\8.
                            70"#$%$-8.R<.
                            R, \%+(0"8.R_8./, "\$+. 70\&\$\%, \#0\%., "\&.(*\$, =\$\%_8.SABAB8.N0:U_.
                                         _8.H, "$8.7_8.7, -$8.6_8.7) 60" "$++_8.h.i 0\\\"8.6_8.CZ\#M.
                            <""5,+.W02$+,"&.6$;$"($.,"&.4$)5%'#-.[&5),#'0".4522'#8.c'\#5,+8.
                            R$"#$%.;0%.W02$+, "&.6$;$"($., "&.4$)5%'#-8.70"#$%$-8.R<_.
$
                            70+"", L_{8.0}, "#0\%8.R_{8.6}, G\$?+\$-8./_{8.L}, ##'(#, 8.L_{8.6}, h.R, \%+(0"8.R_{8.6}, h.R_{9.6})
                            /%')0*$8.N_8.SABAB8.NO:U_.@$-"0#$.<&&\\$((., "&./, "\$+.6'()5(('0"\8.
                            F02,"',_.
$
                            H,5\#"(,)M8.< 8.R, \%+(0"8.R 8.h.H,5\#\$"(,)M8.4 8.SABAB8.4\$\*U.
                                                                                                     P<sup>,-</sup>.
                            G0\%+\&.45(\#,'",?'+'\#-.R0";\$\%\$")\$8.c!F]9<H^4a'\#X\$\%+,"&.
$
                            W_{1} = MOS + 8.R_{1}. / MO: S''('08. < 8.R_{1}. + (0''8.R_{1}. h.4) Ma, M + X8. \ S20. AB8. N'
```

```
L, &$\\8.W_\8.R, \\\+(0\)\8.R_. 6_\8.SABCK\8.4\$\*\U_.
                               _./,*$%.*%$($"#$&.,#.#M$.P#M.<""5,+.
/0+, %.H, a.4-2*0('52E.F'(=.,"&.4$)5%'#-.'".#M$.<%)#')E.H0),+.,"&.
N, \#'0", +./\$\%(*\$)\#':\$(8.>, '\%?, "=(^<")M0\%, 1\$8.<@_.
L, '+$-8.F_8.R, %+(0"8.R_8.@'22$+8.7_8.h.F01$%(8.7_8.SABCK8.<*%U.
                                        00'"#. I)$,".R022'(('0".
!"'#',#':$8.<%)#'). I )$, ".H$,&$%(M'*.F05"#,?+$8.9"':$%('#-.0;.<+,(=,...)
>,'\\?,"=(\8.>,'\\?,"=(\8.<\@_.
R,\%+(0"8.R.6.SABCQ8.4$*U.
                                               ./,*$%.*%$($"#$&.
\#.\$.9_4...
6\$",+'.N,\#'0",+./,\%=8.<@_.
R, %+(0"8.R_.6_8.h.L05;;, %&8.]_8.SABCg8.I)#U_.
                _./,*$%.*%$($"#$&.,#.#M$.6$*,%#2$"#.0;.W02$+,"&.
4\$)5\%'\#-8.>[7<8.94NIF]WRI78.,"&.N,#'0",+.W02$+,"&.6$;$"($.
>05"&,#'0"`(.P#M.<""5,+.W02$+,"&.4$)5%'#-.,"&.6$;$"($.[&5),#'0".
45 2 2 '#8.R0+0%, &0.4*%'"1(8.R I_.
R, \%+(0"8.R\_6\_8.h.L05;;, \%\&8.]\_8.SABCg8.4\$* U\_.606.<\%)\#').4\$)5\%'\#-.
```

```
Y L,)M$+0%.0;.4$)5%'#-.,"&.[2$%1$")-.7,",1$2$"#.
                                   SABCP T .ABACU.
                                   L,)M$+0%.0;.[2$%1$")-.7,",1$2$"#.SABCB T.ABCPU.
                                   $
*-.//012/00"3")*"%+,-"$
                               $
                               RL47 'RN478./M6_.4#$$\\''1.R022'##$$.SABCPTABAAU.
                               *%$($"#U.
)
                               RL478.], %1$#$&.7, %=$#'"18.["%0++2$"#., "&.F$#$"#'0".H$, &8$
                              LABCK T *\(\$(\$"\\#U.
                               RL478.4#%,#$1').,"&.[e$)5#':$.7,",1$2$"#.R022'##$$.
                               SABCC T *\(\$(\$"\\\#U.
                               SABCC T *%$($"#U$
                               RL4 7 8.R5\\\')5+5 2.F$: '$ a.R0 2 2 '\#$$.SABCC T *\\$($\"\#\).
                               RL4 7 8.4) MO+, %(M'*.F$: '$ a .RO 2 2 '##$$.SABCC T *\$($"#U.
                              RL47 \&<((5\%,")\$.0;.H\$,\%""1.R022" \#\$\$.SABCCT *\%\$(\$"\#U.
4 (,+"%5,&6)*"%+,-"))
= -33/00)$\(\frac{3}{2}\)
                               .9 <>8. \ %, &5, #$.4)MOO+8.!"#$%&'()'*+'", %-.RO5")'+8.SABAC T
                               ABAAU.
```

. 9 < .4#, #\$ a '&\$.\$H\$, %"'"1.R0 2 2 '##\$\$8.SABCD T ABACU.

9 <>.H' 2 '#\$&.45? 2 '(('0"(.F\$(\$,%)M.R0 2 2 '##\$\$8.SABCK T . ABCJ.

 $9 < .4 \% \% . \ \%'''' 1.4 \% , \%'''' 1.4 \% , \# 1')./ \ , \# Ma , -(.F \% : ' \% a . ] \% , 2 \% . SABCQ T ABCDU..$ 

()\*1.''\$=-3 3/00)).. RL4 7 8.4#5&\$''#.<&: '(0%.SABAAU. RL4 7 8.LL<.>, )5+#-.SABAAU.

. RL4 7 8. [ "1,1\$2\$"#. 7, ",1\$%.SABACU.RM, '%. RL4 7 8. < & 2 ' ".R00%&' ",#0%.SABACU.RM, '%.

. RL478.W4[7.>,)5#-.W'\\$.;0\.[7.SABABU.RM,'\...

9<>8.<&2'(('0"(.R05"(\$+0%.\$ABCJU.

. RL4 7 8.W4 [ 7 .>, )5#-.W'\\$.;0\%.R-?\\$\%.SABCJU.RM, '\%.

9 <>8.7 '+'#,%-.,"&.c \$#\$%,"\(.4\$\%:')\$(.R00\\&'",\#0\\.SABCPU.

•

N, #'0", +.W0"0%.40)' #-.;0%.W02 #-, "&.4\$)5%' #-8.!" #\$++'1\$")\$8.

[2%1\$")-.7,",1\$2\$"#8.,"&.,++./%0#\$)#':\$.4\$)5%'#-.

6'()'\*+'"\$(.SABCQ T ABAAU...

**I 70,/:**)\$GM\* 3/+)1\$ 9 <> \% \ \%, \&5, \#\$.4)MOO+\\$/M6. I 5#('\&\$. [e, 2'''\\$\%.SABCP T

ABAAU.

!\*10+)1,''/<\$=--1:/+\*0-1. 9"'#\$&.4#,#\$(.97'+'#,%-.<),&\$2-TG\$(#./0'"#8.R\$"#\$%.;0%.#M\$.

4#5&-.0;.

%) **3 D) 1**\$ [e\*\$\#. G 0\\='"1.\\\05\* T 9\_4\_.<\\2 -. G,\\.R0\+\\$1\\$.4\\$5\&-.\\$0.

6\$:\$+0\*.,.4%,#\$1-.;0%.N,#'0",+.4\$)5%'#-.[2\$%1\$")'\$(.SABACY

)5%%\$"#U.

(7D;).0%%\*00)1%GM<)10% > \$&%, +. [2%15") -. 7, ", 1\$2\$"#.<1\$") -. S>[7 < U./+, """1.

/%,)#'#'0"\$%./%01%, 2.c'%#5,+.>0)5(.\%05\*.SABABYABAAU.

] M%': \$.<+, (=, \$.(5\*\*0%#.#0.<)#': \$.4M00#\$%., "&.[2\$%1\$")-.

/%\$\*,%\$&"\$((.

4\*\$)',+.\*5?+'),#'0".\$&'#0%.;0%.005%",+.0;.4\$)5%'#-8.!"#\$++'1\$")\$8.,"&. F\$('+'\$")\$.[&5),#'0".ABAB

```
/%Od$)#. 7 ,",1$2$"#.!"(#'#5#$.S/ 7 !U.
                                                          <2\%'), ".40)'$#-.;0%.!"&5(#%',+.4$)5%'#-.$<4!4U.
                                                          !"#$%",#'0",+.<((0)',#'0".0;.[2$%1$")-.7,",1$%(.S!<[7U.
                                                          <((0)', \#'0".0; \#M\$.9"'\#\$\&.4\#, \#\$(.<\%2-.S<94<U..
 -. (7!00') \%4*"!M!4(-+!) \&.
                                                         $
>)*:)1,''/<\$\$
$
                                                          6':$%('#-8.[b5'#-.,"&.!")+5('0".]%,'"'"1.;0%.H$,&$%(M'*8.4#%,#$1').
                                                          /+,"""1.;0\%.!")+5(':\$.[e)\$++\$")\$8.(*0"(0\%.2-.9"':\%('\#-.0;.<+,(=,...)))
                                                          >, '\%?, "=(. I ;;')\$.0;. [b5'\#-., "\&.R02*+', ")\$.SABAA T I "10'"1U...
                                                         4 I 7 .!")+5(': '#-.]%,'"'"1E.RO":$%(,#'0"(.a'#M.4#5&$"#(8.(*0"(0\%$.?-.
$
                                                          4 I 7., "&.N, "00=.6':$\('\dagge' -., "\&.<)\dagge' 0".R$"\dagge\%8.9"':$\('\dagge' -.0;.<+,(=,...)
                                                         >, '%?, "=(.S I )#8.ABABU_.
$
                                                          4 I 7 .!")+5(':'#-.]%,'"'"1E.40)',++-.05(#./%,e'(E.6$:$+0*'"1..".
                                                          !")+5(':$.R05\($8.(*0"(0\)$\&.?-.4 I 7., "\&.N, "00=.6':$\('\)#-., "\&.
                                                          <)#'0".R$"#$%8.9"':$%('#-.0;.<+,(=,.>,'%?,"=(.$<518.ABABU.
                                                          R$"#$%.:0%.R%$,#':$.H$,&$%(M'*8$9"':$%('#-.0:.<+,(=,.H$,&$%(M'*.
$
                                                          /%01%. 2 E.H$.&'"1.:0%.#M$.>5#5%$8.<")M0%.1$8.<@8.$45 2 2 $\\8.ABCKU.
$
                                                          9"':$%('#-.0;.<+,(=,.>,'%?,"=(8.<),&$2').H$,&$%(M'*.!"(#'#5#$.$<H!U8.
                                                          >, '\(\gamma\)?, "=(\(\delta\).<\(@\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta\).\(\delta
9+.017.0/-+*5
$
                                                          9"': \%('\#-.0;.<+,(=,.>,'\%?,''=(.\%,\&5,\#\$.4)M00+8.RM,'\%''1.\%,\&5,\#\$.
                                                          R02 2 '##$$(.V./\\'')'*+$(., "\&./\\,,)\#')$(\&.>, \\\?, "=(\&.<\@\&.S>, ++\&.ABABU...
$
                                                          9"': \%('\#-.0;.<+,(=,.>,'\%?,"=(.\$R,2*5(\&.[e*,"\&'"1./$\&,101'$(\&.
                                                          !""0:,#':\$.R05\%(\$(.S[/!RU8.>,)5+#-.6\$:\$+0*2\$"#./\%01\%,28.
                                                          >,'\\?,"=(\lambda.\left\equiv +.ABCJ T 4\*\\'\'1\lambda.ABABU.
$
                                                          9"':\$\%('\#-.0;.<+,(=,.>,'\%?,"=(\$.\$R,2*5(\$.q5,+'\#-.7,\#\%(.!2*\%0:'"1.
                                                          s 05%. I "+'"$.R05%($.$! s I RU.$G'"#$\\8.ABCJU.
                                                          9"':\%('#-.0;.<+,(=,.$H$,\%"'"1.h.6'(#,")$.[&5),\#'0".']$,)M.R05\%(\$8.
                                                          >,'\\?,"=(.<@8.S>,+\\.ABCgU.
                                                          9"':$%('#-.,"&.<1$")-./,%#"$%(M'*.!"'#',#':$8.>,)5+#-.6$:$+0*2$"#.
                                                          G0\%=(M0*8.N,:,+./0(\#1\%,\&5,\#\$.4)M00+8.R\$"\#\$\%.;0\%.6\$;\$"(\$.,"\&.
                                                          4$)5%'#-8.$4522$\%8.ABCCU.
```

\$

!1-4),,/-+\*5\$F1\*/+/+2. <((0)',#'0".#0.<&:,")\$.R0++\$1',#\$.4)M00+(.0;.L5('"\$((.\$<<R4LU8. L5('"\$((.<))\%\&'\#,\#'0".4\\$2'",\%.\$05"\\$8.ABAAU.

- . >\$&\$\%,+.[2\$\%1\$")-.7,",1\$2\$"\#.<1\$")-\8.[2\$\%1\$")-.7,",1\$2\$"\#.
  !"(\#'\#5\\\$.S[7!U.N,\#'0",+.[2\\\$\\1\\$")-.7,",1\\$2\\"\#.<\&:,")\\$\&.
  <),\&\\$2-.\\$ABACT ABAAU.
  - . [BgKC.Y.<&:,")\$&.!E.<\*\*+'),#'0".0;.<&:,")\$&.!"&':'&5,+.
    RO")\$\*#(.'".[2\$\sqrt{1}\$")-.7,",1\$2\$"#.\$I)#0?\$\sqrt{8}.ABACU.
  - . [BgKA.V.<&:,")\$&.!!E.<((\$((2\$"#.0;.]\$,2(.'"./%0;\$(('0",+. [2\$%1\$")-.7,",1\$2\$"#.S0,"5,%-8.ABAAU.
  - . [BgKZ.V.<&:,")\$&.!!!E.RO"#\$2\*0%,%-.!((5\$(.'".#M\$.[2\$%1\$")-.7,",1\$2\$"#.I%1,"'X,#'O".S7,-8.ABAAU.
  - . [BgKg.V.<&:,")\$&.!cE.<&:,")\$&.R0")\$\*#(.,"&./0+')-.'".#M\$.[7./%0;\$(('0".2000.2450(()2-q0.11

```
N < 11.4#, ...4)M00+.
                                                                              Y RO": $"#'0", +.>0%)$(.[5%0*$.]%$, #-.!"(*$)#0%^[()0%#.R05%($8.
                                                                              Y R\(\frac{1}{1}\)'(\(\frac{1}{1}\), \(\frac{1}{3}\) \(\frac{1}3\) \(\frac{1}{3}\) \(\frac{1}3\) \(\frac{1}3\) \(\frac{1}3\) \(\frac{1}3\) \(\frac{1}3\) \(\frac{1}3\) \(\frac
                                                                     9_4.<\%2-.R022,\%.,\%.,\%.,+.4\#,;;.R0++\$1\$.
                                                                                        RO2 2, "&., "&. \ $"$\%, +.4\\;;; I;;')$\%(.RO5\\($\\$.\$CJJQU.
                                                                              Y RO2?'"$&.<\%2(.4\$\%:')\$(.4\#,;;.4)\MOO+8.\$CJJgU.
                                                                     9_4.<\%2-.42,++.\%05*.>,)'+'\#,\#0\%.\%,'''''1./\%01\%,2.R05\%(\$.SCJJBU.
                                                                     9_4_.<%2-.!"(#%5)#0%.]%,'"$%(.R05%($8.$CJJBU.
                                                                     CJJBU.
                                                                     9_4_.<%2-.R02?,#.!"#$++'1$")$.R05%($8.SCJPDU.
                                                                     9 4 . < \(\gamma 2 - .N5\) + \(\strue N6.L'0+01'\), +. h. RM\(\strue 2'\), +. SNLRU. I;;'\) \(\strue N(.R05\) (\(\strue N6.L'0+01'\), +. h. RM\(\strue 2'\), +. SNLRU. I;;'\)
                                                                              SCJPgU.
                                                                     9 4 .< % 2 - .L,(')., "&.<&:,")$&. 7 $&').R05%($(.^/M, %2,)-.
                                                                               1$)M"')',"./%01%, 28.<), &$ 2 -.0; W$, +#M.4)'$")$(8.SCJPAU.
 -. (7!00'()%4*L%$35.(#)".
$
! -,/0/-+,$
$
                                                                     6$*5#-./\(\)0d$\)#. 7 , \('', 1\)\(\)^/\(\)0d$\)#. 7 , \('', 1\)\(\)\(\). \(\)\(\)\(\)*+$.R , \('\)0*-\(\). G \(0\)\(\)+& a '&$.
                                                                     /$%(O",+./%O#$)#':$.4$)5%'#-.SG//4U.],(=.I%&$%.CBTW'1M.]M%$,#.
                                                                     6'\%)#0\%. [2\$\1\$")-.7,",1\$2\$"\#8.9"':\$\('\#-.0\;.<\+,(=,.4\#,\#\$a'\&\$.
                                                                     4 - (\#\$ 2 \& >, '\%?, '' = (\& < +, (=, \& ABBD T .ABCB.
                                                                    4'#\$.H\$, \&\&. \ \$"\$\%, +.6-", 2')(.!";0\%2, #'0".]\$)M"0+01-.R022, "&&.
                                                                     RO"#%0+8.RO2 25"').#'0"(8.RO2 *5#$%(Y!":0%2.#'0"8.45%:$'++.")$.h.
                                                                     F$)0"",'((,")$.$Rg!4FU.]%,'""1.R0"#%,)#8.>0\\(\frac{1}{2}\)#.00'"\(\frac{1}{2}\)#.00'"\(\frac{1}{2}\)#.
```

L,(\$,[+2\$"&0%;F')M,%&(0"8.ABBQTABBD.

!!"#\$%&'"#'!!\$()%&\$\\$!&\$