## 

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

()\*\$+,-)).\$)/\$0"1234115\$+)"6-473\$846-)9216\$: 32;47126<\$

• ! 11216=36\$>7)/411)7\$)/\$?3/)7@=62)3\$+<164@1\$

- (:;'-34!B.>!Y#.W!IB.H!I'/!@))/&D!#)!"PR<D#!X/ZBP>,!-.!b+.>PB-,-.W0!bP#A!B!a+B,-:/\$</P-A/.D!D#!B!G-&DBD#P!`BA/F!!
- J-B#R/!"'/.WH!e-((#(!\*B(BH!B.>!(:;'-34H!%'BP-.W!OP#>+&D,!#.!%#&-B(!T/>-B0!%<#.,#P/>!"#.D/.D!B.>! OP#>+&D!^-.\,F!3%3A=>'\*;?<@<=4!BD!gN(%7!

## 7 . \* 8 B&+B) \* . 9 \* \$ / /'

!

!

2

- (:;'-34 $\mathbb{N}A$ -D!\*B,+ $\mathbb{B}$ .>!g-. WC-. W!c'B. W $\mathbb{E}$ ] QA<P#=-. W!D'/!G/,-W.!#)!\'/./PBD-=/!X/DP-/=B(!%R,D/A,!Z-D'!GR.BA-&!X/&#AA/.>BD-#.,Fk!
- (:;'-34 $\mathbb{N}X\#Z$ /.B!\B.>!1R+.\\'//!\^/\\\j]'/.!\\P\#Z>,\#+P\&-.\\\!T//\\D,!\\P\#Z>)+.>-.\\0!I'/!]\#P\:G\#.BD-\#.!\\0.\D/P<(BR!B.>!\Q),!\QA<(-\&BD-\#.,!)\#P!M,\/P!\@.\\BW\/A\.\DF\K!
- (:;'-34dH!%'/.W,'/.W!J-B#H!B.>!"'P-,D#<'/P!V(-=#(BH!N!`-)D!D#!`-=/0!I'/!QA<B&D!#)!"'BP-DB\_(/!`-)D!"BP>,F!!

- 22F jY#+!X+.H!Q!G#.BD/0!% 'BP/>!%#&-B(!X/,<#.,-\_(-DR!D 'P#+W '!B!G-,DB.&/!IPB&\/P!T#\_-(/!N<<(-&BD-#.kH!Z-D '!^+&R!YB.!B.>!N()#.,#!O/>PBiB: TBPD-./iH!-+'.)\*) '/)%+ '%' '.+\*3 "(\$+ '%012() 3 2%" '4%5)/6 '+,+71%- &059%!O '#/.-\$H!NP-i#.BH!452;!
- $24F \ jY\#+!X+. \\ \#!Q!G\#.BD/0!\% \ 'BP/>!\%\#\&-B(!X/,<\#.,-_(-DR!D \ 'P\#+W \ '!B!G-,DB.\&/!IPB\&\ 'P!T\#_-(/!N<<(-\&BD\#.kH!Z-D \ '!^+&R!YB.!B.>!N()\#.,\#!Q/>PBiB: TBPD-./iH!D'/!L \ !O/$) '/)\%+. \\ \#: 6\$, '''(6*+;1\&'\$(\$''(\$<)\%-+'.)*)'/)\%O: \&\%!Q.>-B.B<#(-,#!Qh#!452;!B.) '|A|+ (-,#!Qh#!452;!B.) '|A|+ (-,$
- $28F \ j^{B}...W!)P\#A!OP\#C\&D!bB-(+P/!-.!1-\&\,DBPD/PkH!Z-D'!Y-.W>B!^{H}.^-.!eB\#H!B.>!Y\#.W!IB.H!8; \ !\&'()*''(\$+''',\$-+'.)*)'/)#+'\&'.+*3''(\$+'MO12()32!3Q''Q\%7H!\%/#+(H!1#P/B!452K!)$
- 2LF j I '/! [ B(+/!#)!^-=/! " 'BD!#.!V.(-./!O+P&'B,/kH!Z-D'!Y#+Z/-! ] B. W!B.>!Y#.W! I B. H!=>

```
O(BD)#PA.Hk!Z-D'!c'/.!bB.WH!%'/.W,'/.W!J-B#H!B.>!Y#.W!IB.H!%'B.W'B-!M.-=/P,-DR!#)!b-.B.&/!B.>!
    @&#.#A-&,!%+AA/P!%/A-.BP!!4542!
  j T#P/!I'B.!G#+ (/!Y#+P!0A<B&D0!N.!@A<-P-&B(!%D+>R!#)!TBD&':#))/P!#.!"'BP-DB (/!"P#Z>)+.>-.\W!
    O(BD)\#PA, \#k!Z-D'!c'/.!bB.WH!\%'/.W,'/.W!J-B\#H!B.>!Y\#.W!IB.H!hBD-\#.B(!M.-=/P,-DR!\#)!\%-.WB<\#P/!G/<\!D!
   #)!0%! n!N.B(RD-&,!%/A-.BPH!4542!
25F j T #P/! I 'B .!G#+ (/!Y#+P!0A<B&D0!N .!@A<-P-&B(!%D+>R!#)! T BD& ':#))/P!# .!" 'BP-DB (/!"P#Z>)+ .>- . W!
    O(BD)#PA,Hk!Z-D'!c'/.!bB.WH!%'/.W,'/.W!J-B#H!B.>!Y#.W!IB.H!OVT%H!4542!3<P/,/.D/>!_R!&#:B+D'#P7!
22F i0. = -D. W!bP-/.>, D\#!g\#-.!OP\#, \#\&-B(!^/.>-.Wm!N.!@A<-P-\&B(!@\$BA-.BD-\#.!\#)!D'/!X/)/PPB(!OP\#WPBA!\#.!B(!^/.>-.Wm!N.!@A)
    24F jN!`-)D!D#!`-=/0!I'/!0A<B&D!#)!"'BP-DB (/!`-)D!"BP>,\\\Z-D'!\\'\.W,'/.\\J-B\\!0hbVXT\\!N..+B(!
    T //D-.WH! [-PD+B(H!4545!)]
28F j I '/!QA<B&D!#)!%+ ,&P-<D-#.!X/&-<P#&-DR!#.!" 'BP-DB (/!"#.D/.D!`/./PBD-#.!B.>!% 'BP-.W0!@=->/.&/!)P#A!
    IZ-DD/PHk!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!QhbVXT'.N..+B(!T//D-.WH!'/BDD(/H!]B,'-.WD#.H!4529!
2UF je#Z!D#!%'BP/!OP#,#&-B(!*/'B=-#P!Z-D'#+D!*/-.W!"#..->/P/>!B!*PBWWBPDmk!Z-D'!^+&R!YB.!B.>!N()#..#!
    O/>PBiB: TBPD-./iH!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
2LF j T B . BW- . W!N>#<D-# . !#)!NPD-)-&-B(!0 . D/((-W/ . &/!- . !D' /!OP/ , / . &/!#)!e+AB . !0 . D/((-W/ . &/0!N!b-/(>!%D+>Rlk!
    Z-D'!T#&'/.!YB.W!B.>!`B.W!]B.W!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
26F j I ' /!QA<B&D!#)!V . (- . /!Q(BD)#PA ,!# .!%#&-B(!Q .D/WPBD-# .0!@=->/ .&/!)P#A!B!^BPW/:%&B(/! [ #(+ .D//P!
    h/DZ#P\lk!Z-D'!Y-)B.!Y+!B.>!Y#.W!IB.!!0hbVXT%!N..+B(!T//D-.W!!/BDD(/!!]B,'-.WD#.!!4529!
    3<P/,/.D/>!_R!\&\#:B+D'\#P7!
2KF je#Z!D#!%'BP/!OP#,#&-B(!*/'B=-#P!Z-D'#+D!*/-.W!"#..->/P/>!B!*PBWWBPDmk!Z-D'!^+&R!YB.!B.>!N()#..#!
    O/>PBiB: TBPD-./iH!OV T %H! ] B, '-. WD#.H!G" H!4529!
2;Fj@.WBW-.W!"'BP-DB_(/!"#.D/.D!`/./PBD-#.!-.!V.(-./!%#&-B(!h/DZ#P\,0!@=->/.&/!)P#A!IZ-D/PkH!Z-D'!Y-.W>B!^+!B.>!
    Y#.W!IB.H!M.-=/P,-DR!#)!Q((-.#-,!BD!"'-&BW#H!452;!
29F j ] 'R!%'#+(>!0!G#.BD/m!@$BA-.-.W!X/<+DBD-#.H!O//P!@))/&D!B.>!O#<+(BP-DR!@))/&D!#.!" 'BP-DB (/!`-=-.W!#=/P!%#&-B(!
    T/>-B!O(BD)\#PA, kH!Z-D'!Y-.W>B!^{+}B.>!Y\#.W!IB.H!0.>-B.B!M.-=/P,-DRH!452K!
45F j ] 'R!%'#+(>!Q!G#.BD/m!@$BA-.-.W!X/<+DBD-#.H!O//P!@))/&D!B.>!O#<+(BP-DR!@))/&D!#.!" 'BP-DB_(/!`-=-.W!#=/P!%#&-B(!
    T/>-B!O(BD)#PA,kH!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!D'/!M.-=/P,-DR!#)!T/A<'-.H!452K!
42F !jM,/P:`/./PBD/>!"'BP-DB_(/!"#.D/.D!-.!%#&-B(!T/>-B0!@=->/.&/!)P#A!B!b-/(>!@$</P-A/.Dk!!Z-D'!Y-.W>B!^+!B.>!
    Y#.W!IB.H!QhbVXT\%!N..+B(!T//D-.WH!hB,'=-((/H!I/../,,//H!4526!))
44F jM,/P,0!X/,-(-/.&/,DBPD/P!%&BAkH!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.WH!hB,'=-((/H!
    I/../,,//\!\!4526!
48F j*+-(>-.W!X/<+DBD-#.!D'P#+W'!"'BP-DB_(/!`-=-.W!-.!V.(-../!%#&-B(!h/DZ#P\-.W!@.=-P#.A/.DkH!Z-D'!Y-.W>B!^+!B.>!
    Y#.W!IB.H!QhbVXT\%!N..+B(!T//D-.W!O'-(B>/(<'-BH!O/...,R(=B.-BH!452L!))
4UF j^#RB(DR!OP#WPBA0!D'/!G-(/AAB!#)!%'-<<-.W!b//kH!Z-D'!Y-:"'+.!e#!B.>!Y#.W!IB.H!0hbVXT%!N..+B(!T//D-.W!
    O'-(B>/(<'-BH!O/...,R(=B.-BH!452L!)
4LF j I '/! [ B(+/!#)!^-=/!" 'BD!#.!V.(-./!O+P&'B,/kH!Z-D'!Y#+Z/-! ] B.W!B.>!Y#.W! IB.H!QhbVXT%!N..+B(!T//D-.W!
   O'-(B>/(<'-BH!O/...,R(=B.-BH!452L!)
46F jG/,-W.!#)!@))/&D-=/!X/ZBP>!%&'/A/!#.!"P#Z>)+.>-.W!O(BD)#PAkH!Z-D'!%'/.W,'/.W!J-B#!B.>!Y#.W!IB.H!%B.!
    bPB.&-,&#H!"B(-)#P.-BH!452U!
```

;F | T#P/!I'B.!G#+\_(/!Y#+P!QA<B&D0!N.!@A<-P-&B(!%D+>R!#)!TBD&':#))/P!#.!"'BP-DB\_(/!"P#Z>)+.>-.W!

!

!

!

!

!

!

!

 $4 \text{KF } j \text{N.!@A} < -\text{P-\&B}(!@\$BA-.BD-\#.!\#)!D'/!\% + P = -=B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k\#!Z-D'!T-.W!bB.!B.>!Y\#.W!IB. \#)!DhbVXT\%!N..+B(!T//D-.W!T-../B<\#(-,\#!)!B. \#)!DhbVXT\%!N..+B(!T//D-.W!T-../B) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.>!B.)!B. + B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)!B.) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)!B.) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)!B.) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)!B.) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)!B.) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP\/D<(B\&/k#!Z-D'!T-.W!bB.!B.)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-./!TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-../!TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-.!B.!V.(-../!TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-..B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/Z!\%/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...B.!V.(-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-(-DR!\#)!h/A!M/((/P,!-...TBP)) = --B_-$ 

- $G_{-,,/PDBD-\#.!"}$ #AA-DD//! $T/A_/P!$ #)! $J_{-B}$ #R/!"'/.W!345297!
- O'FGF!X/&P+-D-.W!"#AA-DD//!34529H!45457!
- "B,/!"#A</D-D-#.!g+>W/!)#P!T%0%!OP#WPBA!3452;H!45297!
- "B,/!"#A</D-D-#.!g+>W/!)#P!1/((/R!G-P/&D!3452;7!