HUMANITIES

 $=2)3')4A(B\$; 2)\$*'(B\$V_, (\$E; A*\$E' L(X\$A(\$; 2)\$)$ @)2-4:\$E; A*\$J2BA((A(B\$*2P, 2(F2\$*; 'LF-*2@\$; 2)\$@)2**2@\$A(\$-..\$J.-FW5\$*A(BA(B\$J'.@\$.G)AF*\$ $A(F., @A(B\; 2\$A(2\$\%4\$B' ((-\$)' FW\; A*\$' L(5X\$$ @A) 2F < .GSD, S < -= '*A(BS < : 2SB2(< .2SS : '=23, .SG2 < SS)@'FA2\$*'(B\$<; -<\$'FF,))2@\$(2-)\$<; 2\$*<-)<\$'3\$ <; 2\$! 09/*\$4' HA2\$-J', <\$L-k4(B\$3')\$-\$@)2-4\$<'\$ ZI`````]hgY`Z''6mWcbhfUghž?UhjY`hcc__`]b]hjUhjj Y`hc` (2-.4M2\$; 2)\$F-(22)\$-*=A)-(4*(*:\$],))2=(-*A*, *.G\$*.A==A(B; 2) R\$@24' \$A(<' \$<; 2\$)2F')@\$ =)' @, F2)0*\$*, kF - 2M(\$; '=2*\$' 3M, 4=8*<-)<1(B\$; 2)\$F-)22)\$g-<\lambda\$4-@2\\$2H\@2(<\\$; 2)\\$*2(*2\\$' 3\\$ A(@2=2(@2(F2\$-(@\$*<)' (B\$LA.\$<' \$; 2\$-, @A2(F2\$ 4-@2\$-*\$-\$)2*, ...\$' 3\$K)A2@-(0*\$4' H242(-\$\$-(@\$ 4-@2\$-*\$-(@\$ 4-@2\$-(@\$ 4-@2\$-*\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-@2\$-(@\$ 4-Y YWMj Y`mX]qdfcj]b[Mc`Yb,g`ghUhYa Ybhh\Uh 4')2\$F'(<24=')-)G\$H2)*A'(*\$'3\$IA(@2)2..-\$ F' (<-A(\$L2-W2)\$324-.2*:\$E;)', B;', <\$<; 2\$ $)2*<' 3k; 2$4' HA25[(F2$\=' ($-$]' (B$3,)<; 2)$$ @A*<A(B, A*; 2*Sk*2.3S3)' 4\$RA*(2G0*S')ABA(-.\$F; -)-F<2)AM-<A' (\$' 3\$I A(@2)2..-:\$b<\$' (2\$=' A(<5\$ q - 42\$3', (@\\$\; 2)*2.3\\$.\\$\2)-..\\$\L2-\\$\(B\\$\('\<\)\\$\(B\\$\) J, <\-\@'')4-<\\J, <*''\(\\$\L', \(@\\$, =\\$\L2-)\(B\\$-\\$ J.-M2)\$' H2\$\$<; 2\$4 -<\$\$42<-=; ')AF-..G\$-**2)<A(B\$; 2)\$*, =2)A')kG\$'H2)\$<; 2\$F'4=.-F2(\$IA(@2)2..-\$2*F-=2@\$; 2)\$3-<; 2)\$\$WA.2@\$-\$A'(\$-(@\$-@'=<2@\$ -)F; 2<G=2:\$b@@kA' (-..G55<; 2\$4' HA20*\$.-*<\$ *' (B\$Vc.2**\$TG*2.3X\$F' (<-A(2@\$<; 2\$3' ..' LA(B\$.G)AF*\$V.'' W\$A(*A@2\$('<\$-)', (@5X\$V<; 2)20*\$('\$ (22@\$3')\$*' 42' (20*\$; 2.=\$\$\$\<; 2)20*\$('\$' (2\s\'\$ *-H2\$G',\$J,<\$G',)*2.35\\$-(@\$V\$;-H2\$J.2**2@\$ a mgY`Z', H\YgYkcfXgY YWNjY`mWnThjWhY` -(@\$, (@2)4\$(2\$; 2\$@2=2(@2(F2\$' (\$-\$K-\$)G\$))1'@4'<; 2)\$3')\$*, FF2**\$=)2*2(<2@\$I(\$RI*(2G0*\$; 2)\$\(-.2(<\$\@)\H2\$\(-(@\$LI.='L2)\\$\'\$=,)*, 2\$; 2)\$ ')ABA(-.5*; -)A(B\$-\$*A4A.-)\$=2)*=2F<AH2\$<'\$E; 2\$ E;)22\$1' L (*:\$E; 2\$"/!!\$(-))-<\(\text{H2\$4'} \)2\$F.' *2.G\$ ()2F')@\$@2-.:\$ -.AB(*\$Lk; \$<' @-G0*\$=2)*=2F<AH2\$' (\$B2(@2)\$2P, -.kG55-\$@A)2F<\$F' (<)-*<\$<' \$! 09/*\$324A(A*<\$ c2<G\$K)\lambda2@-(0*\$',<.''\W\$'(\\\B2(\@2)\\\)'.2*:\\b*\\)2*='(*2\$<'\$<;2\$!09/*\$F,.<,)-.\$.-(@*F-=2\$\$K)A2@-(\$J'.@.G\$F'442(<2@\$'(\$<;2\$*<-<2\$'3\$ *, J,)J-(\$; ', *2LH2*\$I(\$b42)AF-\$\$@)-LA(B\$ -<<2(<|4'|(\$<'\$V-\$*2(*2\$'3\$@A**-<|A*3-F<|A'(\$\$-\$mYUfb]b[h\Uhk ca Yb qi YfYX]b h\Y a [XXY]

'3%; 2%L2(<\\dagger{42<; \text{\$F2(<,)G\(\(\sigme\) (\(\sigme\) 2\(\k2@\)]<-<2*\\\ YK)A2@-(\$! Z:\$Nk; \$; 2)\$J' ' W\$E; 2\$K24A(A(2\$ TG*<AP, 25\$K)A2@-(\$; AB; .AB; <2@\$-(\$, (@2).GA(B\$ @A*F' (<2(<\$*; -)2@\$JG\$*, J,)J-(\$L' 42(\$L; '\$ L-(<2@\$-\$.B2\$J2G' (@\$<2(@A(B\$<' \$<; 2\$3-4A.G\$-(@\$<-WA(B\$F-)2\$' 3\$<; 2\$; ' , *25\$<; 2)2JG\$B-.H-(AMA(B\$ a ["cbg cZgi Vi fVUb k ca Yb hc [\hZcfh\Y]f" f][\hq:UbX:Y\YWh]i\Y:mYqhUV:]q\]b[\h\Y:qYWcbX: L-H2\$324A(A*4\$A(\$b42)AF-:\$[(F2\$)='(\$-\$)]]' (B0*\$24 = : -*A*\$' (\$-\$L' 4 - (0*\$=)' 32**A' (-.\$)-*=A)-A' (*55' H2)\$-\$; AB; \$*F; ''.\$.' H2\$A(<2)2*<5\$ fY YWmgUbXjUjXUhYgh\YgcWjU`dfc[fYgg` A(\$@'A(B\$*'\$)23, <2*\$U'.2(0*\$F.-A4:\$g-<A20*\$<-.2(<\$\$ B)k5\$-(@\$@)AH2\$F,.4A(-<2@\$A(\$;2)\$B2<A(B\$*AB(2@\$ JG\$-\$3-4', *\$4, *AF\$=)'@, F2)\$-(@\$@kF; A(B\$; 2)\$ LAFW2@\$*<2=\$3-4A.G\$3')\$-\$J)AB;<\$3,<,)2\$A(\$<;2\$4, *AF\$A(@, *<)G:\$

\$ _' *-\$I A(@2)2..-\$-(@\$g-<\2\$-)2\$ f7]bXYfY``Ug,, Zfca h\fYYX] YfYbhhja Y dYf]cXgz G2<\$-..\$;)22\\$*, FF2**3, ..G\\$2-)(2@\\$; 2A)\\$V; -==A.G\\$ 2H2)\$-3<2)*X\$<;)' , B; \$<; 2A)\$' L (\$-F<A' (*:\$_' *-\$ A\$-*\$-\$@A*B, A*25\$-(@\$*', B; <\$', <\$<; 2\$=)A(F25\$ 2H2 (<, -..G\$)2H2-.A(B\$; 2)*2.3\$' (\$; 2)\$' L(\$ <2)4*:\$I A(@2)2..-\$)24-A(2@\$WA(@5k' .2)-(<\$; -)@L')WA(B5\$-(@\$; '=23, .\$YL; AF; \$-)B, -J.G\$@24-(@*\$B)2-\$42(<-.\$*<)2(B<; Z\$\(\$<; 2\$4\@*\$ '3\$@'42*<\F\$-J, *2\$, (<\lambda.\$*; 2\$L-*\$, .<\lambda -<2.G\$)2L-)@2@\$JG\$; 2)\$K-A)G\$1'@4'<; 2):\$g-<\2\$, *2@\$ F-)22\\$-*=A\}-<A' (*5\\$)2*, .<A(B\\$A(\\$; 2)\\$H2)G\\$' L(\\$

E; ', B; \$U' .2(\$@A*4A**2*\$')\$ F' (@2*F2(@*\$*, J*2P, 2(<\$I A(@2)2..-*\$-3<2)\$ E; 2\$E;)22\$1' L(*\$=-)<4F, .-).G\$<; 2\$! 09/0*\$ $IA(@2)2..-\$3')\$('\$-F\AH2.G\$24J-)WA(B\K'\$LA(\$; 2)\$$; -==A(2**5%; A*\$=2)*=2F<AH2\$3-A.*\$<' F' (*A@2)\$h\Y`gcWc`c[]WU`WcbhYI hh\UhX] YfYbhJUhYg` 2-F; \$=)' <-B' (A*<0*\$*, FF2**:\$E; 2\$RA* (2G\$ IA(@2)2..-55-(\$2S<2(*A'(\$'3\$<;2\$b42)AF-(\$=,J.AF\$) =' *<\$! 0695; -@\$-.)2-@G\$F; ' *2(\$<' \$Lk; *<- (@\$ *'\$4,F;\$4\angle^3')<,(2\scrip^;2\scrip^*\gamma2(\k.2\@\scrip^\scrip*) -\$K-A)G\$1'@4'<; 2):\$E; 2)23')25\$; 2)\$=-**AHA:G\$ *;',.@\$('<\$J2\$@A*)2*=2F<2@\$')\$4A*,(@2)*<''@\$ -*\$L2-W(2**\$')\$.-FW\$'3\$-F<A'(?@2FA*A'(?)*<)2(B<; :\$E; 2\$* - .A2(<\$*2(*2\$' 3\$324A(A*4\$A(\$ [(F2 $\$ =' (\$-\$]' (B\$\$2S=)2**2@\$<;)' , B; \$q-420*\$ YfWY dYfgcbU]hmUbX Ua V]hcb flb UXX]hcb hc <; 2\$*G4J'.A*4\$' 3\$RA*(2G0*\$I A(@2)2..-Z5\$A*\$G2<\$ -('<; 2)\$F', (<2)\$<'\$U'.2(0*\$')ABA(-.\$F.-A4:\$ b..;)22\$VI A(@2)2..-*X\$-)2\$A(*=A)-<A' (-.\$A(\$ <; 2A)\$' L(\$)AB; <f\$-..\$<;)22\$, (@2)L2(<\$-\$&2)' 0*\$ F' (H2(<A' (-..G\$V; 2)' AFX\$<; -(\$' <; 2)*\$LA;\$ <; 2%2-\$' 3\$*<)2(B<; \$4-(B32*<A(B\$K*2.3\$A(\$X] YfYbhk UngyŁUbX gi VWWggZi "mgYW fYX h\Y]f $; -==A(2**:$I'(*2P, 2(<.G$S_'*-5$IA(@2)2..-5$)$ -(@\$g-42\$-..\$)2=)2*2(\$; 2\$G=2\$' 3\$, (@2)@' B\$L2F-(M@2(-M3GSLA;5S*22WSF'43')-(MGS-(@S) $(A.M) = (2.\%)^{-1} = 2.\%$ $N2\$-*=1)2\$' \$J2\$' ,)\$' L(\$_' *-*\$')\$I A(@2)2..-*\$$ ') g-42*5=, *; A(BS')L-)@M(S; '=2*S; -<S',)

! 7"\$\&' (')*\\$+',)(-.\\$"/"/ ! 77%&, 4-(kA2*

A A : A

•

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

\$ b.-(\$T'')20*\$! "#\$%&'(), *2*\$ k*F; -)-F<2)*k' = 2*2(-\$-\$@-)W\$HA*A' (\$'3\$)4A@8<L2(<A2<; \$F2(<,)G\$b42)AF-.\$[3\$<; 2*2\$ F; -)-F<2)*5' (2\$' 3\$<; 2\$4')2\$424')-J.2\$\\^\$ `@L-)@\$c.-W2\$\$-.*'\$W('L(\$-*\$<; 2\$I '42@A-(:\$ ^(@22@5k; 2\$4' *<\$)2F' B(M-J.2\$*G4J'.\$4(\$k; 2\$ B)-=; AF\$(' H2.! \$A*\$C.-W20*\$=A(:\$C.-W2\$A*\$*, F; \$ $-\$(' \leftarrow J.2\$-(@\$=, MM.A(B\$F; -)-F<2)\$J2F-, *2\$$ -4' (B*<\$<; 2\$F-*<\$' 3\$2)*<L; A.25\$L', .@8J25\$-(@\$ -(<A8; 2)' 2*56c.-W2\$A*\$-.4' *<\$VA3\$(' <\$2(<A)2.GZ\$ HA..-A(', *:\$E; 2\$2(AB4-\$=' *2@\$JG\$<; A*\$F; -)-F<2)\$ F-(\$J2\$)2@, F2@\$\'\$-\$*A(B.2\$P, 2*\|'(\$\'3\$-..\$ '35<; 2\$1 ' 42@A- (0*\$U), <-.A<G\$- (@\$F), 2.<G\$1*\$-\$ 0' W25L; -<0*5<; 2=, (F; A(215cG)2-@A(B5<; 25))1 ' 42@A- (\$1(\$<; 2\$F' (<2\$<\$' 3\$<; 2\$V-JD2F<X5"\$L2\$ $(@2)^* < -(@\$; -<\$; 2\$ = , (F; .1(2\$)^*\$b42)1F - \$k^*2.3$ E' \$, (@2)*<-(@\$<; 2\$3, (F<1 (\$' 3\$<; 2\$ 1'42@A-(564\$A*\$A4=')<-(\$<'\$-.*'\$, (@2)*<-(@\$<; 2\$F; -)-F<2)\$' 3\$<; 2\$I ' 42@A-(:\$E; 2\$W2G\$<' \$ <; A*\$J2BA(*\$Lk; \$=-B2\$CO\$' 3\$K UHX\\a Yb'\$[(\$

! 76\$\$&' (')*\$+',)(-.\$"/"/

@A@\$(' <\$F' A(\$')\$, *2\$<; 2\$<2)4\$; A4*2.3:\$^(\$-(\$ 4, *AF-.\$4@2-\$<; -\$F-(\$J2\$42.' @AF5\$; -)4' (AF5\$); G<; 4AF55')\$-..\$<;)22q)2=)2*2(<*\$-(@\$A*\$, *2@\$'\$#@2(<#3G\$-\$F; -)-F<2)\$<;)', B;', <\$<;2\$ '=2)-:\$^(\$<2)4*\$'3\$<;2\$QA-('\$]'(-<-\$\$4'<\H2*\$.M2\$<; 2\$@' <<2@\$); G<; 4\$')\$<; 2\$@2*F2(@A(B\$ -, B42(<2@\$\)A-@\$F',.@\$J2\$*22(\$-*\$P,-*A8 Y]ha ch]Zo'\$b.<; ' , B; \$<; 2\$[=, *\$! \$] ' (-<-\$|*\$(' <\$ -\$=)' B)-44-<AF\$=A2F2\$M(\$<; 2\$3-4', *\$V[=2(\$a2<<2)X%<' \$] F; ' 2(J2)B\$L)k<2(\$(\$! 0"95c2)B\$; $A(<2@\; -<\; 2*G4=-<; M2@\Lk; =)' B)-4$ 4, *AF\$-(@\$*=' W2\$' 3\$-\$V_' 4-(<AFX\$A(F.A(-<A' (\$ YK.')' *\$i i ?:\$b.<; ', B; \$- (G\$=)' B)-4*\$<; -<\$ L2)2L-<2)4-)W2@\$A(<'\$; A*\$4, *AF\$L2)2\$.23<\$F' (F2-.2@5\\\$L',.@\\J2;''H2\\; 2\\=2)\\3')\42)\\ '3%; 2\$QA-('\$]'(-<-\$<'\$2S-4A(2\$; 2*2\$4'<AHAF\$ F2..*\$-(@\$-..' L\$<; 24\$<' \$B, A@2\$; A*\$=2)3')4-(F2: A*\$' 3\$4, *AF' .' BAF-.\$A(<2)2*<\$<' \$2S-4A(2\$-\$.A(W\$ b@@k4' (-..G\$\$c2)B\$4-W2*\$; 2-HG\$, *2\$' 3\$<; 2\$ $E)A^* < -(\$F;')@\$Y' 3 < 2(\$^* = 2...2@\$2(;-)4'(AF-..G\$)$ -*\$-\$; -.38@A4A(A*; 2@\$i <\$F; ')@Z\$A(\$<; 2\$QA-(' \$]'(-<-\$('<-J.G\$(\$; 2\$@2H2.'=42(<\$*2F<)'(:\$) $O' < ^*,) =)A*A(B.GS-N-B(2)A-(^*2(^*2 ' 3 N') W*SI k2@$.G)AFA*4\$-.*'\$=2)42-<2*\$<; 2\$@2H2.' =42(<:\$E; 2\$ 2S<2(@2@\$J, A.@, =\$' 3\$<; 2\$@2H2.' = 42(\$.-*<*\$')\$ b@')(' \$E; 2' @')\$N:\$2\$-:\$b.J-(\$c2)B\$T-*<2)\$; AB; 2)\$=2-W*:\$E; 2'@')\$b@')('\$@2*F)JJ2*\$; 2\$ 2S=-(*AH2(2**\$-(@\$F.A4-F<AF\$J, A.@, =\$' 3\$<; 2\$ @2H2.' = 42(< : A*SL-G*N<; 2 : 242*5' (F2); -HA(BS=-**2@S;)', B; S; 2S@A*FA=.A(2S' 3S; 2S 2S='*kA'(5S-)2S-..'L2@S<'\$J)2-<; 2S-(@S*A(BS))ci hwh\YYI dfYgg]j Y [Ygh fY cZh\Y fghVUfg '3%; 2\$@2H2.' = 42 (<\$@)\B<*\$JG\$L\k; \$<; 2\$*-42\$ @2-<; .G\$*'))' L\$-*\$.-<2)\$A(\$<; 2\$J2BA((A(B\$'3\$<; 2\$K cnnYW_A(<2)., @2\$L; AF; \$-==2-)*\$<' \$J2\$ @-L(A(B\$; 2)2\$2H2(\$4' <AHAF - ..GX\$Yb@')('\$697:\$\$ b.J-(\$c2)B0*\$QA-('\$]'(-<-\$[=, *\$! \$J2-)*\$; 2\$]b iYbVWcZgYjYfU`[ifYgžacghbcHJV`m\]g` <2-F; 2)\$b)('.@\$]F; '2(J2)B;\$^(\$-\$! 0! 6\$.2<<2)\$ <'\$]F;'2(J2)B\$\(\$L;AF;\$c2)B\$@2@AF-<2*\$;A*\$ $C fVX YghfU^DYVYgZ = , *SCS<' ; A*$42(<')$; 2$$

*-G*5WK')\$G2-)*\$k\$: -*\$J22(\$4G\$*2F)2<\$J,<\$ '=2)-<#F\$*2<4(B\$\$-\$=-)<#F,.-)\$*8'#&3#-9*---\$*;')\$ =2)*#*<2(<\$L#*;\$<'\$@2@#F-<2\$*'42<;#(B\$<'\$G',:\$\$ E; 2\$L')W*\$F' 4=' *2@\$, (@2)\$G',)\$ *, =2)HA*A' (56<; 2\$] ' (-<-5\$*' (B*\$-(@\$n, -)<2<5\$ @'\$('<\$F', (<\3')\\$\; -<\\$=,)=' *2\\$\; -HA(B\\$\J22(\\$)2F2AH2@\$@A)2F<.G\$3)' 4\$G', X\$Y]F; 4-.32.@<\$#/7:\$ E; 2F' 4 = '*kA' (-.k, <2.-B2S' 3S] F; '2(J2)BS-==2-)*\(\)', B;', \(\); 2\(\)*' (-<-\(\)4' *\(\)('<-J.G\(\) A(\$c2)B0*\$, *2\$' 3\$; fi bX[YghUh-(@\$@2H2.' =A(B\$ H-)A-<A' (:\$E; 2*2\$=)A(FA=.2*\$-..' L\$; A4\$<' \$<-W2\$-\$ *, FFI(F<\@2-\; -<\I*\.2**\; -(\(\frac{\}3'\))\\$42-*,)2*\\$.' (B\$-(@\$F' 4=' *2\$-\$@2(*2\$-(@\$@22=.G\$ '(2\$'3\$c2)B0*\$A@'.*5\$3-F<')*\$;2-HA.G\$A(<'\$<;2\$ *' (-<-55-*\$L2..\$-*\$A(\$<: 2\$F' 4='*2)0*\$, *2\$' 3\$'=2)-AF.G)AFA*4.-(@\$N-B(2)A-(\$;-)4'(A2*:\$KA(-..G55L; A.25<; 25L')WSA*S('<5=)'B)-44-<AF5SA<SJ2<L22(\$; 2\$*' (-<-0*\$2S=)2**AH2\$.-(B, -B2\$-(@\$b.J-(0*\$)2.-<A' (*; A=\$Lk; \$; A*\$3, <,)2\$L8325\$&2.2(2\$ O-; 'L*WA:\$

- '3%; 2\$] 4-..2*<\$aA(W:\$I -4J)A@B2\$\(AH:\$\$! 006:
- c2)B\$\text{b}.J-(\frac{1}{2}-(\frac{1}{2}\text{c2})(-)\text{@s1}), (:\frac{1}{2}\text{b}.J-(\frac{1}{2}\text{c2})B\frac{1}{2} a2<<2)*\$<' \$&A*\$NA32:\$]<:\$T-)<A(0*\$Q)2**\$! Oi ! :
- $I = A(55NA.A-45^{*}:$I.-**AF-.$K')4$b$E; 2')G$'3$$ K')4-.\$K, (F&' (*\$3')\$\; 2\$^(*<), 42(<-.\$ T, *AF\$' 3\$&-G@(5\$T' M-)<5\$-(@\$c22<; ' H2(:\$ [S3')@\$\(AH2)*kG\$Q)2**\$\$"///:
- K.')' *\$1 ' (*<- (A(:\$b.J-(\$c2)B\$T, *AF\$-*\$b, <' JA' B)-=; G:\$a-(B\$"/! 6:
- +-)4-(51R', B.-*:\$Vc2)B55b.J-(\$VT-)A-\$ +'; -((2*7:X\$1)'H2\$T, *AF5\$''''\$R2F:\$ "/!is\$LLL:'S3')@4, *AF' (.A(2: F' 4?B)' H24, *AF?HA2L?! /:! /07? B4' ?0i #! 9C! 90" C7/://!:///! ?' 4' 8

```
0i #! 9C! 90"C7/828/////"i Ci u' 4' 8
0i #! 9C! 90" C7/828/////" i Ci 8
@H! 8/////" i Ci :":
```

- b.J-(\$c2)B\$&A*<')AF-.\$-(@\$b(-.G<AF-.\$ Q2)*=2F<AH2*SJGSR-HA@S1-J.2S-(@S'J2)<SQ:T' B-(51.-)2(@' (50)2**5! 00! 5==:5i 0r! /0:
-] F; '2(J2)B56b)('.@562<\$-..\$K, (@-42(<-.*\$'3\$ T, *AF-.\$I ' 4=' * \mathbb{R} A' (:\$K-J2)\$- (@\$K-J2)\$\$! 000:
- E; '4=*'(\$T-)F, *:\$VC)-; 4*\$-(@\$R2H2.'=A(B\$s-)A-A' (:X\$C' *<' (F; -4J2)4, *AF:')B5\$! "\$ o' H:\$" /! 656LLL:J' *<' (F; -4J2)4, *AF: ')B?J)-; 4*8-(@8@2H2.'=A(B8H-)A-<A'(?u:vcqB<"; qlCn\s

!6"\$\&'(')*\\+',)(-.*'/"/ ! 675%&, 4-(kA2*

! 66\$%&' (')*\$+' ,)(-.\$"/"/

V, (FAHAM2@\$=2' =.2*\$)2=)2*2(<\; 2\\$=)A4-)G\\$
fdtfa]hj YEcfi bfY bYX'ghUhYg'cZh\Y\i a Ub'
F' (@kA' (\\$L; AF; \\$\@2=2(@A(B\\$' (\\$; ' L\\$; 2\\$
FAHAM2@\\$), .A(BZ\\$F.-**2*\\$=')<)-G\\$; 2A\\\$' L(\\$; A*<')G\\$\\$; 2G\\$2k; 2)\\$-H' \@2@\\$-<' B2<; 2)\\$')\\$
=-**2@\\$;)', B;\\$-<\-(\\$2-).A2\\$\A42\\$\! OOi \\$\"! Z.\\$

NA; \$<; 2\$<; 2')2<AF-.\$- (@\$; A*<')AF-.\$ 3)-42L')W\$' 3\$<; 2\$F)2-4' (\$' 3\$<; 2\$[<; 2)\$(' L\$ 2*<-J.A*; 2@55%,)(\$\'\$2\$-4A(2\$F'(F)2<2\$ 2S-4=.2*\$' 3\$<; 2\$24=.' G42(<\$' 3\$<; A*\$); 2<')AF\$A(\$ -(FA2(\$T2@k2))-(2-(\$.k2)-<,)2\$-(@\$.-<2)\$! #<;\$ -(@\$! O<; \$F2(<,)G\$C)kA*; \$.k2)-<,)2:\$[H2)\$<L'\$ 41.2((A-\$-B'\$=2'=.2\$J2B-(\$'\$2S=.')2\$; 21)*,))', (@A(B*\$\$2(F', (<2)A(B\$(2L\$*'FA2<A2*\$ -(@\$F' (H2GA(B\$; 2A)\$2S=2)A2(F2*\$A(\$; 2\$-)<*:\$&' 42)0*); /<55' <\$L)k<2(\$*' 42\$A42\$A(\$\; 2\$ 2AB; <; \$F2(<,)G\$C1 `\$\$*<-(@*\$-*\$<; 2\$=)A4-)G\$ 2S-4=.2\'3\J,)B2'(\(\lambda(B\\cappa;',B;<\^\J',\\\(2L\\cappa) dYcd Yg UbX X] Yf]b[k Ung cZ]ZYžUg]h]g cbY cZ h\Y fghhYl hi U gci fWyg hc Yb[U[Y k]h\ bch]cbg '3\$2S=.')-<1'(\$-(@\$F'.'(1-.11*4:\$c211(B\$@22=.G\$ 24J2@@2@\$\(\$\; 2\$N2*<2)(\$F-(' (\$\;-)B, -J.G\) <; 2\$3' , (@-<4' (\$' 3\$<; 2\$2(<4)2\$F-(' (\$k*2.35\$The\$ <; -<\$3' ...' L\$5-(@\$2*<-J.A*; \$-\$3, (@-42(<-.\$.-(B, -B2\$3')\$2S-4A(A(B\$-(@\$@A*F, **A(B\$; 2\$)))[<; 2): E; 2\$4A@@.2\$*2F<A' (*\$' 3\$<; 2\$2=AF\$2(B-B2\$

4' *<\$@A)2F<.G\$Lk; \$2(F', (<2)*\$Lk; \$<; 2\$[<; 2)\$

! 6C\$\$&' (')*\$+' ,)(-.\$"/"/

! 6#\$\$&' (')*\$+',)(-.\$"/"/

-.AH2\$-(@\$(<2)2*<A(B:X#\$E; 2\$('H2.0*\$A(<2)2*<A(\$<; 2\$2H2)G@-G\$M*\$F' 4=.242(<2@\$JG\$k; 2\$(22@\$3')\$-\$V; -==G\$2(@A(B:X\$E; A*\$; -==G\$2(@A(B\$'3<2(\$2\$A*<*\$A(\$k; 2\$3')4\$'3\$-\$*'FA-.\$F'(<)-F<\$-(@\$A*\$VL; G\$k; 2\$F.-**AF-.\$6]Xi b[gfca Ub

! 9/\$%&' (')*\$+' ,)(-.\$"/"/

A4 = AF - A' (*\$-(@\s; 2\sf' (*2P, 2(F2*\s' 3\s\)2\A(B\s) 324-.2\$-)2\$; AB; AB; AB; <2@\$)-<; 2)\$<; -(\$@A*4A**2@:\$ '=<A'(*5\$I-k\$F; ''*2*\$<'\$)2F.-A4\$; 2)\$\@2(<kG\$ [0c)A2(0*\$4-(A=,.-<| (\frac{1}{3}\); 2\frac{5}{3}\text{Xi b[gfca Ub\|*\\$ -(@\frac{1}{3}\), <'('4\frac{1}{3}\);)', B; \frac{1}{3}\; 2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|2\frac{1}{3}\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,.*\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\|4=,...\ -\$L-G\$M(\$L; AF; \$*; 2\$F-(\$*; 'LF-*2\$; 2)\$@24-(@\$ -J')<AH2\$@2FA*A'(\$4-WA(B:\$&'L2H2)\$\$<; 2*2\$ ZcfkcaYb,ggcWJU``]VYfhJYgJb ≢Y`UbX" I -k0*\$- (\$A2<A2*\$-<\$\; 2\$2(@\$' 3\$\; 2\$(' H2.\$-)2\$ = -. = -J.25 - (@\$; 2)\$2H2)8=)2*2(<\$-(SA2<G\$ F' (<)-@AF<*\$<; 2\$3, ..G8@2H2.' =2@\$F; -)-F<2)\$ <; -<\' (2\' 3<2(\\^22^\\-\<\; 2\\2(\@\\' 3\\<; 2\\F.-\^\AF\\\ 6]Xi b[gfca Ub'\$E' \$J2\$-\$3, (F4' (A(B\$424J2)\$ '3\$*' FA2<G\$-\$F; -)-F<2)\$4, *<\$2S=2)A2(F2\$ V@2H2.' = 42(\$' 3\$; 2\$L; '.2\$=2)*' (-.kG:::d-(@e\$)h\Y Wcb]WrgcZ]ZY OUfYOgYYb Ug bYWrggUfm \Uga Ubm/Wcb]WfgcZ`]ZY,, f\fci [\ci hh\Y ('H2.\$G2<\$*; 2\$2(@*\$k; 2\$('H2.\$('\$4')2\$; '=23, .\$ <; -(\$*; 2\$J2B-(\$\tau\$; 2\$.-*<\$.\(2\$' 3\$\cdot; 2\$(' \text{H2.}\(\text{M}^*\)\$ A(@AF-AH2\$' 3\$<; A*\$.-FW\$' 3\$F; -(B2\$V\$F-42\$', <\$<' \$<; 2\$WkF; 2(\$-(@\$<' ' W\$<L' \$-*=A)A(*\$Lk; \$4G\$ <2-:\$^\$L-*\$-.4' *<\$F2)<-A(\$\$L',.@(\$\\$*.22=\\$\; -<\\$ $(AB; <: X^{!} \circ Sb < Sc; 2S('H2.0*SJ2BA((A(BS*; 2SA*S-(SA', *SA')))))$ 'H2)\$; 2)\$3-<; 2)\$5-\$<; 2\$2(@\$T):\$12(<.24-(:\$&2)\$ Ubl]Yhmcj Yf A f"; YbhYa Ub]g ei]hY X] YfYbhz -*\$*; 2\$@2*=2)-<2.G\$L-(<*\$<' \$), (\$-L-G\$L\k; \$; A4\$-(@\$2S=2)A2(F2\$A(<A4-FG\$\$-F<A'(*\$<; -<\$; -H2\$-\$=' *kAH2\$F' (('<-<A' (\$3')\$I -k5\$G2<\$; 2)\$ *<-<2\$' 3\$J2\$(B\$*<\1.\$@2=2(@*\$' (\$<; 2\$=)2*2(F2\$ cfUVgYbWrcZa Yb"8Ygd]hY 7Ujhg;fWcb [Whg cZ^1ZY, UbX 1ftUhcbk 1th fYVY^1cbzg\YZU1g <' \$\@2\H2.' = \$\\(\(\sigma\)_- \(\sigma\)_-.' \L^*\\(\sigma\)_\(\sigma\)_\(\sigma\) h\YbYYXZcfUXca]bYYf]b[aUY [ifYUbX 'H2)F' 42\s; 2\s='L2)\s; -<\42(\s; '.@\s'H2)\s; 2)\s -\$F' (@kA' (A(B\$<; -<\$; -*\$)' '<*\$A(\$-\$F' (H'., <2@\$ 4' <; 2)?@-, B; <2)\$)2.-<\lambda' (*; \(\)=: d∷:e E' \$J2\$3')F2@\$' \$F' (3')4\$<' \$*, F; \$-\$

)' .2\s\-W2\s\-L-G\s\L' 4-(0\s\2(\s\2\s' 3\\@2(<\s\G\s

-(@\$-,<'('4G5\$-(@\$A(\$-\$L').@\$Lk;\$.A4k2@\$ @2FA*A' (*\$-)2\$(' <\$Lk; ' , <\$F' (*2P, 2(F2*:\$ E; 2\$-JA.kG\$<' \$4-W2\$-, <' (' 4', *\$@2FA*A' (*\$ L',.@\$*224\$<'\$BAH2\$I -k\$-\$*2(*2\$'3\$A@2(<kG5\$

! 975%, 4-(kA2* ! 9"\$\&' (')*\+',)(-.\\"/"/

A(('F2(F2\s'\4-<,)\sqrt{B}p:\E;2\s*F;'.-)*; A=\\$ '(k; 2\6)\Xi b[gfca Ub *224 *\4, @@.2@\\$ -*\$K)22*20*\$-(-.G*A*\$F2(<2)*\$-)', (@\$4A@8 <L2(<A2<; \$F2(<,)G\$(' H2.*:\$_2B-)@.2**53')\$ `*<; 2)\$1)22(L''@5\; 2\\$=)2*2(F2\\$'3\\$*'F\A-.\\$ F'; 2*A' (\$A*\$A(\$P, 2*<A' (\$JG\$<; 2\$2(@\$' 3\$<; 2\$ ('H2.:\$E; 2\$('H2.\$H(*<2-@\$=)2*2(<*\$V-\$L'4-(\$ *<), BB.A(B\$<' \$J2F' 42\$L; '.2\$(' <\$-\$L' 4-(\$ L; '\$; -d*e\$)2-F; 2@\$*' 42\$*2(*2\$' 3\$*<-J.2\$ *2.35X"!\$-(@\$' (2\$4-G\$*, BB2*<\$\; -<\$\' \$J2\$-\$ ghUV Y gY Zk Ug U dfj [Y[Y U cfXYX hc a YbžUg : fYYgY dfcdcgYg]b \]g XY b]h]cb"Hc a]h][UhY <; 2\$\)-@k\\' (-.\$*2\$*4\$\' 3\$\; 2\\\3\')4*2.3\\\$-*\\\$; -*\$J22(\$<)-@kA' (-..G\$4 -.28F2(<)AF\$5-(@\$<'\$ (-) -AH2M*S - B42(2@M(S')@2) - $32=2^2(S)$ L' 42(0*\$*<), BB.2\$\(\\$*\' F\)2<G:

d∷:e

d∷:e

E)-@k4' (-..G\$4' *<\$L' 42(\$L2)2\$ 2S=2F<2@\$\'\$J2\$4'<;2)*\$-(@\$'(.G\$4'<;2)*:\$ T'<; 2); ''@\$*\$-\$3-<2\$<; -<\$`*<; 2)\$@2*=*2*:\$ &2)\$\(\circ\)' @, F<\(\)' (\\$\'\\$\; 2\\$=)' F2**\\$' 3\\$; , 4-(\\$ JA)<; \$4*\$-.-) 4A(B\$\$-*\$*; 2\$4*\$3')F2@\$<'\$' J*2)H2\$-\$\$\$.AH2\$JA)<; \$LA; \$; 2)\$J' G3)A2 (@\$C, @@G\$\$-\$42@AF-.\$ *<, @2(<:\$&2)\$*' .2\$3' F, *\$@,)A(B\$<; 2\$')@2-.\$)2H'.H2*\$-)', (@\$<; 2\$4'<; 2)0*\$=-A(\$@,)A(B\$.-J')\$ L; A2\$L' 42(\$-)2\$=2)32F\$-(@\$<; 2\$*'., <A'(\$<'\$ $4')=: A(2\$: -\$A^*\$, *2@\$'\$-**, -B2\$: 2\$=-A(:\$$]; 2\$)24-)W*\$' (\$<; 2\$=-<)A-)F; -.\$F' (@kA' (A(B\$' 3\$ @A*F, **A' (\$)2F' B(M\2\$<; -<\$-**, 4=<A' (.\$E; A*\$A*\$ <; 2\$@), B\$*<-<1(B\$<; -<\$\k\$V*', (@2@\$), *<\$.\\\2\$<; 2\$ *')<\$' 3\$@), B\$-\$4-(\$L' , .@\$I(H2(<p:l<; 2\$L' 4-(e\$...1B; <q <; 2\$4-I')k<G\$' 3\$c; 24\$-)2\$(' <:\$&' L2H2)\$\$ L',.@\$B'\$*<)-AB;<\$;'42\$-(@\$*<-)<\$-('<;2)\$ J-JG\$J2F-, *2k; 2\$@), B\$L', .@\$4-W2\$; 2}\$\')B2\\$ 3), *<)-<2*k; 2\$\2-@2}\$L; 2(\$*; 2\$*, FF, 4J*\$\'\$; 'L\$J-@\$; 2\$=-A(\$; -@\$J22(:X""\$E; 2\$JA)<; \$*F2(2\$ T):\$12(<.24-(0*\$@2*A)2*5\$` *<; 2)0*\$J2; -HA')\$ 3')F2*\$` *<; 2)\$<'\$)2F' B(M2\$<; 2\$)2=)' @, F<M2\$ =)A')kG\$'3\$-\$L'4-(0*\$)'.2\$A(\$*'FA2<G\$-(@\$*;2\$A*\$;2)\$('H2.5\$-(@\$b((-0*\$F'(*FA',*(2**\$A*\$*'\$)2=, .*2@\$JG\$<; 2\$I(; 2)2(\$3)-B42(<-&I'(\$'3\$<; 2\$ J.,))2@\$<; -\$*; 2\$-..' L*\$=-)<*\$'3\$Q-, .5\$`..-\$\$T'..G\$\$)' .2:

T')2\$<: -(\$: -.3\$-\$F2(<,)G\$: -*\$=-**2@\$*A(F2\$<; 2\$=, J.AF-<A' (\$' 3\$H\Y'6Y```>Uf\$J, <\$A\$)24-A(*\$-\$('H2.\$; -<\h*\J'<;\s\)2.2H-(<\-(@\s , (F' (H2(<\' (-..\c)2-\(B\c); 2\(6\)Xi b[gfca Ub' 3') 4\$-(@\$F; -..2(BA(B\$; 2\$)2-.A*<\$)2=)2*2(<-<A'(\$)'3\$L'42(\$L-*\$)2H'., <\(\)'(-)G\$-<\(\); 2\(\)42\(\)3\$ =, J.AF $-\langle A' (5S-(@S<; 2S('H2.SA*S*<A.S-SD-))A(BS<2S<S)$ <; -\$2(B2(@2)*\$H-., -J.2\$@A*F, **A' (\$-J', <\$ B2(@2)(')4-AHAG-(@6:2)*.'L(2**)'3; A*<')AF-.\$F; -(B2:\$Q.-<; 0*\$=)' *2\$A*\$=)' H' F-<AH2\$ $-(@\$42-(A(B3,.\$BAHA(B\$A\\$*<-GA(B\$='L2)\$$ UbX fYgcbUbW/k]h\ U lk Yblm! fghW/bhi fm -,@\2(F2:\\$`*<;2)\\$1)22(L''@\L',.@\J2\ @2.AB; <2@\$'\$W('L\$; -<\$\'@-G\$*; 2\$F', .@\$ J2\$J' <; \$-\$4' <; 2)\$- (@\$*, FF2**3, .\$F-)22)\$ L' 4-(\$J, <\$; '.@A(B\$J' <; \$'3\$<; '*2\$@24-(@A(B\$ "J*\$@' 2*\$(' \$F' 42\$Lk; ', \$JA-*2*\$-(@\$ D, @B242(<*:

d∷:e

I'(F., *A'(\$E; 2\$^(<2)*2F<A'(\$'3\$I,.<,)2\$-(@\$ &A*<')G

d∷:e

E; 2\$('H2.*\$-)2\$F-<2B')M2@\$-*\$324A(A*<\$ -(@\$Lk; \$<; -<\$\$<; 2\$2S=2F<-<1' (\$1*\$<; -<\$42(\$-)2\$ @2=AF<2@\$-*\$<; 2\$*',)F2\$' 3\$2HA.\$-(@\$F')), =<A' (5\$A*\$=)' J.24 -<AF\$A(\$\times*2.3\$\frac{\circ}{\circ}\$\; 2\$(' H2.*\$A(\$ bchhc gumh\Y a Yb UfY XYd MYX 1b U UhnYf1b[(2k; 2)\$-)2\$<; 2\$L' 42(:\$I -k0*\$F; -)-F<2)\$ A*\$144-<,)2\$-(@\$=)' J.24-<AF\$-<\$<; 2\$2(@\$' 3\$ Hca a mžUbX GUi `hc]b i YbWY \Yf XYW[q]cbq -(@\s; A(WA(B\\$\J2; -HA')\s; -<\n*\s\)', J.2*' 42\s-(@\\$

F*&' "21\$)7k9/1: "&' &&*DNG&PQ#"-. V3&X. \$&W\$#&L")&"3&@\$; "#\$&W/#: =123)5; "17\&' 5; \$1V3&Y-=: /\$37&*FB*7&EE0GN7&EDA FF&Q#"-.7&Y, #?/"A&FM*HA&X.\$&W\$#\L")B&"&Z5?\$#\&8")6\$)7&GGA

;',.@\$('<\$J2\$24,.-<2@:\$U2<\$\$\$L',.@\$H2(<,)2\$ <' \$-G\$<; -<\A*\$<; 2\$=,)=' *2\$' 3\$F; -..2(BA(B\$<; 2\$ <G=AF-.\$6]Xi b[qfca Ub Z)4:\$E; 2\$*A4=.A*<AF\$ (-<,)2\$A*\$('<\$)2=)2*2(<-<AH2\$'3\$<;2\$)2-.kG\$'3\$;, 4-(\$2SA*<2(F2:\$^\$A*\$('<\$-\$*<)-AB;<3')L-)@\$ <)-12F<')G\$3)' 4\$b\$<'\$C\$U, <\$)-<; 2)\$-\$0',)(2G\$<; -<\$ B' 2*\$3)' 4\$b\$' \$R\$' \$t\$-(@\$J-FW\$' \$b\$-B-A(:\$ E; 2\$-FF', (<\$A*\$' 3<2(\$42**G\$-(@\$('<\$2-*A.G\$ $F-\langle 2B' \rangle M2@5U, \langle ks \rangle 2=)2*2(<*s)2-.kGq-(s)$ -FF2**AJ.2\$(-))-<AH2\$<; -<\$=)' HA@2*\$-\$L')<; G\$ -@@kA' (\$< \$< 2\$F' 4 = .AF - < 2@\$(-<,)2\$' 3\$*' FA-.\$h\Ycfm'

! 96\$\$&' (')*\$+',)(-.\$"/"/ ! 995%, 4-(kA2*