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/25<4-53\*\$8) 9 93:+;!91/\*.!/=!\*%, >!(&(\*(,1.!4/\*(!5,!E5=()(,1!?%)5(15(.!Y,/J,!%.!5./1/-(.6!+./1/-(.!/-!%,!%1/\*!2%?(!12(!.%\*(!,A\*P()!/=!-)/1/,.!%,E!(&(41)/,.0!PA1!%!E5=()(,1!,A\*P()!/=!,(A1)/,.6!31%P&(!5./1/-(.!/-!%,!%1/\*!E/!,/1!E(4%>!1/!=/)\*!%,/12()!(&(\*(,16!;(4%A.(!/-!12(!E5=()(,4(!5,!\*%..!%)5.5,D!=)/\*!E5=()(,1!,A\*P().!/-!,(A1)/,.0!.1%P&(!5./1/-(.!/-!%!D5?(,!(&(\*(,1!P(2%?(!L^=)%415/,%1(\_N!5,1.85D21&>!E5=()(,1!J%>.!EA)5,D!)(%415/,.!.A42!%.!L5N!(?%-/)%15/,!/-!J%1()0!L55N!4%)P/,!E5/]5E(!-5]%15/,!EA)5,D!-2/1/.>,12(.5.0!L555N!4)>.1%&5\*%15/,!/-!%!\*%D\*%0!%,E!L5?N!1)%,.=()!/-!%!E/,A1K.!5./1/-54!.5D,%1A)(!1/!>/A)!-5,D(),%5&.!%,E!2%5)6!\*25.!4/A).(!%EE)(..(.!12(!-)5,45-&(.!D/?(),5,D!12(!-)%415/,%15/,!/-!.1%P&(!5./1/-(.0!%,E!-/4A.(.!/,!2/J!12(!.1%P&(!5./1/-(.!/-!/-)>D(,0!2>E)/D(,0!4%)P/,0!,51)/D(,!%,E!.A&-2A)!%&/J!A.!1/!1)%4(!5,1()%415/,.!J5125,!12(!%1\*/.-2()(@2>E)/.-2()(@P5/.-2()(@512/.-2()(!0%)12!3>.1(\*6!!

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- "G H. (!12(!/]>D(, @%, E!2>E)/D(, @5./1/-(!4/\* -/.515/, .!/=!J%1()!1/!E(1()\*5, (!51.!./A)4(!%, E!12(! 2>E)/&/D54%&!-)/4(.. (.!12%1!2%?(!.2%-(E!12(!J%1()K.!5./1/-54!4/\* -/.515/, 0!%.!(?%&A%1(E!12)/AD2!%..5D, \* (,1.0!1(.1.!%, E!J)511(,!(]%\*5, %15/,!
- 66 +E(, 15=>!12(!./A)4(.!L\*%, 1&(0!4)A.1N!12%1!2%?(!4/, 1)5PA1(E!1/!\*%D\*%!D(, ()%15/, 0!%, E!)(4/D, 5`(!12(!, %1A)(!/=!)/4Y@J%1()!5, 1()%415/, !12%1!\*%>!2%?(!%==(41(E!%, !5D, (/A.!)/4Y!%=1()!51.!4)>.1%&6`%15/, 0!%.! (?%&A%1(E!12)/AD2!%..5D, \* (, 1.0!1(.1.0!%, E!/)%&!%, E!J)511(, !(]%\*5, %15/, .!
- 76 B%4A%1(!12(!.1%P&(!5./1/-(!=)%415/, %15/, !=%41/)!P(1J((,!1J/!-2%.(.!L(GDG0!\*5, ()%&%, E!J%1()N0!A.(! 12(.(!E%1%!1/!(.1%P&.2!J2(12()!12(!.>.1(\*!5.!5,!(IA5&5P)5A\*0!%, E!=/)!(IA5&5P)5A\*!.>.1(\*.0! E(1()\*5, (!12(!1(\*-()%1A)(!%1!J2542!(IA5&5P)%15/, !/44A))(E0!%.!(?%&A%1(E!12)/AD2!%..5D, \*(, 1.0!%! J)511(,!1(.10!5,1()?5(J!%, E!J)511(,!(]%\*5, %15/,!
- <6 H. (!12(!/]>D(, @%, E!2>E)/D(, @5./1/-(!4/\*-/.515/,!/=!4&%>!\*5, ()%.!1/!E(1()\*5, (!4/, E515/, .!/=! J (%12()5, D!%, E!2>E)/12()\*%!!%1()%15/, 0!%, E!5, 1()-)(1!12(.(!)(.A&1.!J5125,!12(!&%)D()!=)%\*(J/)Y!/=! E5%D(, (.5.0!/)(!\*5, ()%6`%15/, !%, E!:!/)!4&5\*%1(!42%, D(!/?()!0%)12!25.1/)>0!%.!(?%&A%1(E!12)/AD2!%..5D, \* (, 1.0!%!J)511(, !1(.10!5, 1()?5(J!%, E!J)511(,!(]%\*5, %15/,!
- a6 +E(, 15=>!-2/1/.>, 12(154!-%12J%>.!5, !?(D(1%15/, !A.5, D!.1%P&(!4%)P/, ...6./1/-(!4/\*-/.515/, .0!) (4/D, 5`(!&%, E!A. (!42%, D(.!P%. (E!/, !.1%P&(!4%)P/, ...6./1/-(!4/\*-/.515/, .!/=!/)D%, 54!\*%11()0!%, E! E(1()\*5, (!12(!E5(1!%, E!1)/-254!&(?(&!/=!%, 5\* &&.!P%. (E!/, !12(!.1%P&(!4%)P/, ...4%, E!, 51)/D(, ...6./1/-(!...4/\*-/.515/, .!/=!12(5)!15..A(.0!%.!(?&A%1(E!12)/AD2!%!J)511(, !1(.10!5, 1()?5(J!%, E!J)511(, !...4/\*-/.515/, !
- b6 H. (!12(!.1%P&(!4%)P/,

' 25.!/A1&5, (!5.!%!DA5E(!/, &>G!8?31\*2\$>O?OA2\$85=2452!5.!%!E>, % \* 54!1//&!% - -&5(E!1/!)(. (%)42!%, E!.42/&%).25-! 5, ! \* %, >!E5==()(, 1!=5(&E.G!B/A).(!4/, 1(, 1! \* %>!42%, D(!E(-(, E5, D!/, !4&%..!=((EP%4Y!%, E!4A))(, 1!1/-54.G!+=! >/A!2%?(!5, 1()(.1!5, !%!.APR(41!, /1!4/?()(E!2()(0!-&(%.(!4/, 1%41!\$)(EG!

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- A0 '%#12\*!), 4%45\*, !)+!%&\*!#%74, 5&\*\$\*!#+@!&8@\$4, 5&\*\$\*! OI A5%P)5A\*!=)%415/, %15/, !/=!5. /1/- (.0!Y5, (154!-)/4(...(.0!Z!%, E!d!5. /1/- (.!5, !J%1()!%, E!J%1()!%, E!J%1()!%, -/A)0!e%>&(5D2!E5.15\%%15/, 0!W&/P\%!\ (1(/)54!\X\%1()!U5, (0!Y5, (154!5./1/- (!=)\%415/, \%15/, !%, E!6@ (]4(..0!(?\%-/)\%15/, !\%, (0!) (D5/, \%!) (== (41.!L\%151AE (0!\%151AE (0!\4/, 15, (, 1\\%51>0!1(\\*-()\%1A) (0! -) (45-51\%15/, !\%\*/A, 1\\0!\fA2, 0!5, \@4\\AE!-)/4(...(.!\%, E!Z!\%, E!d!5./1/- (.!/=!-) (45-51\%15/, 0!.2\\%\J! D)/A, E!J\%1()0!\%1\*/.-2()54!/]>D(, !\%, E!4\%)P/, !E5/]5E (0!\RA?(, 5\\0!\J\%1()0!\D(/12()\\*\\0!\J\%1()0!)/4Y\@ J\%1()!\%15/0!/4(\%, 54!-/)(!J\%1()0!-/)\\*\%15/, !J\%1()0!P)5, (.!L3\X!

G0 '%#12\*!(#\$14+!), 4%45\*,!)+!%&\*!(#\$14+!(8(2\*! B%)P/,!4>4&(!L&/, D@?().A.!.2/)1@()\*N0!4%)P/,!)(.()?/5).!LH!%, E!=&A](.N0!&/, D@1()\*!4%)P/,!4>4&(0! 4%)P/,%1(.0!(IA5%5P)5A\*!B@5./1/-(!=)%415/,%15/,0!?51%&!(=(41.0!4/%d0!-(1)/&(A\*0!,%1A)%&!D%.0!P5/D(,54! \*(12%,(0!1)%45,D!2>E)/4%)P/,!&(%Y.0!.2/)1@()\*!4%)P/,!4>4&(!L%1\*/.-2()54!BZ 0!%1\*/.-2()(@

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12%1!=/)*%!E/4A*(,1%15/,!*%>!,/1!P(!%?%5%P&(!5,!./*(!(]1(,A%15,D!45)4A*.1%,4(.0!12(!-/&64>!%&/J.!
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=)%415/, !/=!%!E%>!J 5&&!P(!%--&5(EG!9..5D, * (, 1.!)(4(5?(E!*/)(!12%, !"68!2/A).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(!12%, !"68!2/A).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A)).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A)).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A)).!%=1()!12(!E(%E&5, (!J 5&&!, /1!)(4(5?(E!*/)(112%, !"68!2/A)).!%=1()!12(!E(%E&5, (!J 5&)(112%, !"68!2/A)).!%=1()!12(!E(%E*A)(112%, !"68!2/A)).!%=1()!12(!E(%E*A)(112%, !"68!2/A)).!%=1()!12(!E(%E*A)(112%, !"68!2/A)).!%=1()!12(!E(%E*A)(112%, !"68!2/A)).!%=1()!12(!E(%E*A)(112%, !"68!2/A)).!%=1()!12(!E(*E*A)(112%, !"
P(!%44(-1(E6!94%E(*54!B/, .5E()%15/, !)(IA(.1.!*%>!P(!D)%, 1(E!/, &>!=/)!(]1(, A%15, D!45)4A*.1%, 4(.!12%1!
.1%)1(E!P(=/)(!12(!E(%E&, (!%, E!&%.1(E!&/, D()!12%, !12(!g/dU%1(dM(, %&1>!M()5/E!L6<!2/A).NG!!
             '2()(!%)(!, /!o*%Y(@A-K!/-15/, .!=/)!*5..(E!9..5D, * (, 1.6!+, !4%.(!/=!(]1(, A%15, D!45)4A*.1%, 4(.0!
             .1AE(,1.!.2/A&E!4/,1%41!12(!5,.1)A41/)!%1!=\,D.1%\AJ/\G4\%!!
A6!B<<0-0*2%$!"-%-1912-(!
0*2)B)4?,!T((4774@#%)4+!
\times 2(, !4/, = \$541.! \cup 512!\%!)(\$5D5/A.!2/\$5E\%>!12\%!!)(IA5)(.!\%, !\%P.(, 4(!=)/*!12(!H, 5?().51>!/)!-)/25P51.!
4()1%5, !%415?515(.0!.1AE(, 1.!.2/A&E!)(IA(.1!%, !%44/* * /E%15/, !=/)!12(5)!%P.(, 4(!5, !J)515, D!1/!12(!4/A).(!
5, .1)A41/)!%, E:/)!12(!94%E(*54!9E?5.5, D!/=54(!/=!12(5)!$%4A&1>!/=!e(D5.1)%15/, G!'25.!, /154(!.2/A&E!P(!
* %E(!%.!(%)&>!%.!-/..5P&(!PA1!, /1!&%1()!12%, !1J/!J((Y.!-)5/)!1/!12(!J)515, D!/)!12(!(]%* 5, %15/, !L/)!/, (!
J((Y!-)5/)!1/!12(!J)515, D!/=!12(!1(.1N6!!)
M_{6}(\%. (!?5.51!12(!F5?().51>!B\%(, E\%).!-/.1(E!/, !/A)!A, 5?().51>K.!0F+F!J(P.51(!=/)!12(!)(4/D, 5`(E!)(&5D5/A.!))
2/&5E%>.S!
      211-.S::JJJG(E56AJ/64%G!!!
T((4774@#\%4+!=42)()*.!
31AE(, 1.!J512!E5.%P56515(.!%)(!(, 4/A)%D(E!1/!4/, 1%41!944(...5P&(!OEA4%15/, 0!J2542!-)/?5E(.!
)(4/* * (, E%15/, .!=/)!%44/* * /E%15/, !P%.(E!/, !* (E54%&!E/4A* (, 1%15/, !/)!-.>42/&/D54%&!%, E!
4/D, 515?(!1(.15, D6!!' 2(!-/&54>!/, !94%E(*54!944/* * /E%15/, !=/)!31AE(, 1.!J512!F5.%P5&15(.!4%, !P(!=/A, E!
%1S!
      211-.S::JJJGAJ/G4%:A, 5?. (4:-E=:%4%E(*54p-/8545(.:%--(%4:94%E(*54)
      944/* * /E%15/, pE5.%P5&515(.G-E=G!!
T(\#@*7)(!=42)()*,!
'2(!J(P.51(!=/)!e(D5.1)%)!3()?54(.!5.!211-.$::JJJ6)(D5.1)%)6AJ/64%:6!!
+, !%44/)E%, 4(!J512!-/854>0!
      211-.S::JJJ6AJ/64%:A, 5?. (4:-E=:-/8545(.p-)/4(EA)(.:.(415/, ":*%--""76-E=0!
12(!4(,1)\\sigma\)-|\%E * 5, 5.1()(E!(@*\%\)\%44/A, 1!-)/?5E(E!1/!.1AE(,1.!J5\)\P(!4/,.5E()(E!12(!5, E5?5EA\)\.!
/=545%&!A, 5?().51>!(@* %5&!%EE)(..G!!+1!5.!12(!)(.-/,.5P5&51>!/=!12(!%44/A,1!2/&E()!1/!(,.A)(!12%1!(@* %5&!
)(4(5?(E!=)/*!12(!H,5?().51>!%1!12(5)!/=545%&!A,5?().51>!%EE)(...!5.!%11(,E(E!1/!5,!%!15*(&>!*%,,()6!
345(, 15=54!4%&4A&%1/).!%)(!%&/J(E!=/)!P/12!12(!\\ 5E@()\*!'(.1!%, E!12(!\\$5, %&!0]\%\*5, \%15/, \GI
 (&42#,%)(!4<<*+(*,!%)(!1%Y(,!.()5/A.&>!%, E!.1AE(,1.!%)(!E5)(41(E!1/!)(%E!12(!%--)/-)5%1(!-/&54>0!
. - (45-54%&>0!12(!E(=5, 515/, !/=!) 2%1!4/, . 151A1(. !%!342/&%. 154!Z=(, 4(0!%1!12(!=/&/)J5, D!×(P!.51($!
      211-.S::JJJGAJ/G4%:A, 5?. (4:-E=:%4%E(*54p-/8545(.:%--(%4.:.42/8%.154pE5.45-85, (pA, E()D)%EG-E=G!!
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