!''' # \$% & ''' () * # (+&, +-). . \$+-&. '. +/'' O. . S. , . -O.

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!""#$%&""()*#(+&, +-).)/""$+-0"&'+0)"")&, +)1#-&, )2%0&)3!"4*5"+67)1897):;::)
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" \#\$!\%(()!*+,)-(.', /!')!0!(\#01', /!23!\#4+, +5'4!6\#/\#, \#60.'+, !0, 1!7-, 1', /!4+,)-(.0, 489!*+5:', ', /! \#; <\#6.!\&, +\$(\#1/\#!\$'.=!0!<604.'40(!=0, 1)>+, !0<<6+04=?!\$\#!=\#(<!+-6!4('\#, .)!1#@#(+<!0, 1!1#('@#6!))-44#))7-(!<6+h#4.)9!
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! "#"$%&$' (' ) %
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* "+%, -.//0%12304/#.35% %<04#\$+6&)% B#, .+, !C06&!D+01% " #\$40).(#?!" EF!FGH%

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! < \#.\#61 , \#\$)\&'(()4+, )-(.', /94+9-&!
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IJKLKIMMNIOFM

!""#\$%&'"()*#(+&, +-).)/"'\$+-0'&'+0)'")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

$$\begin{split} \mathsf{E'/=.!+7!.=\#!, ', \#!<6+\texttt{A\#4.}}!!0((!+7!\$='4=!06\#!7-, 1\#1!:\texttt{8!EDU}^?!06\#!7+6\#40).!.+!7''<\$' F\% \\ \mathsf{GHHIH}) !0, 1!04:: 2\$\#\texttt{MKLMN}, C=0?!/\#, \#60.\#!0, !.38\$'' 0''\% 3\%'): /2F) ''3\#\&2<\texttt{MOOM} \\ \mathsf{P?=}\&290?!0, 1!=\#(<!\%a E)!: 6', /!QOR\%3'' + \% \$2748\#0S: \$28''00''0\#2\%'.\#(''\$\#(''\%) '\$-''\#\% \\ 2\$\#(''\%.\$) !\$P+!10.\#!!.=\#)\#!\#'/=.!<6+\texttt{A\#4.}!=0@\#!46\#0.\#1! !0, 1 \end{split}$$

?!\$'.=!5+6#!A+:)!0, 1!_R!#;<#4.#1!.+!: #!46#0.#1!', !.=#!7-.-6#?!0)! 0!6#)-(.!+7!.=#!', @#).5#, .9!%

P=#!, ', .=!<6+A#4.?!

%)'/, '7'40, .(8!', 46#0)', /!.=#!0@#60/#!

 $\begin{array}{l} , -5: \#6!+7!)<', >+-.)!+@\#6!0!7'@\#>8\#06!<\#6'+1!76+5!K9b!<\#6!0, , -5!<6\#><6+ \texttt{k}\#4.?!.+!0, !\\ 0@\#60/\#!+7!5+6\#!.=0, !b!<\#6!0, , -5!1-6', /!.=\#!<6+ \texttt{k}\#4.9^{!}*9! \end{array}$

$$\begin{split} \mathsf{P}=\#!-, & ``e\#6)'.'\#)!06\#!4+((0:+60.', /!\#77\#4.'@\#(8?!011', /!6\#0(!@0(-\#?!:8!1\#'(`@\#6', /!044')))!) \\ 04.'@'.8!.=0.!$+-(1!, +.!=0@\#!=0<<\#, \#1!0, 1!4+-(1!, +.!=0@\#!: \#\#, !1#('@#6\#1!:8!) \\ +.=\#6)9!\mathsf{P}=\#'6!-, ``-\#!)-<<+6.?!, +.!0@0'(0:(\#!76+5!+.=\#6!<6+@'1#6)?!', 4(-1#)!044\#))!.+0!! \end{split}$$

ļ	ļ	İ
6332;'#.23%3<\$'0#\$48#4\$"K% (.5(\#"8(\%"0"'\$8(\% <'8./.#."0%37%"D4.:)"3#%	A8'7") .8%"T: "\$#.0"K% #"8(3.8'/%0//0K% 37% 8\$"7.9./.#F%	, #47''3#0%
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Z'1#6!: #, #7'.)!0, 1!'5<04.)!+7!.=#!, ', #!', , +@0.'+, !<6+A#4.)!', 4(-1#0!

	!" #\$%&'()*+, -* +, (%/%)0*+\$1(23-\$* #\$%22*	4+\$-()+, -('()* \$-/1+'%(2, '#2*1(5* .%//16%\$1+'%(*6-+7(* 8('&-\$2'+'-2*1(5*+, -* 682'(-22*612-*
9%2'+'&-*''' #1.+*%(* '((%&1+'%(*2: '//2;* .1#1.'+0;*1(5*.8/+8\$-* 7'+, '(*4<=2*1(5* 1'' %()*)\$1581+-2*>* 2+85-(+2*	?-585*\$'2:*%3* '(&-2+'()*'(*?@A* 1.+'&'+0*1(5*#\$%58.+* &1/'51+'%(*1(5*+-2+'()*	B-/#'()*\$-+1'(*)\$1581+-2* '(*+, -*\$-)'%(**

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%-<<+6.!')!#77#4.'@#?!.06/#.#1!0.!.=#!6#/'+,])!!)#4.+6)?!\$#((!50,0/#1!0,1!

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P4#4$"%7"/.; "$F%
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!''''#$%&'''()*#(+&, +-).)/'''$+-0'&'+0)''')&, +)1#-&, )2%0&)3!''4*5''+67)1897):;::)
!
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!'''#$%&'''()*#(+&, +-).)/'''$+-0'&'+0)''')&, +)1#-&, )2%0&)3!''4*5''+67)1897):;::)
!
```

63#''30.; ''%04:: 2\$###2% 88''/''\$' #''%~2\$) ' #.23%2<%0:.3B24#0!

	₽#6#1!0!).#<>4=0, /#!
	/!@'0: (#!)<', !+)!
	, #4.', /!0401#5'4)!
), .!7+6!@'0: '('.8!0, 1!
	- 1#(!4+-(1!: #!

%

P""79'8-%22:#2%):\$2;"%0488"00%;#"0K%;'\$#.84/'\$/F%;"5'\$7.35%437.35!

 $\begin{array}{l} C6+k\#4.)?!<06.'4-(06(8!.=+)\#!', @+(@', /!/60, .!)-<<+6.!)-4=!0)!\\ C+*Y)\#\#1!7-, 1', /?!)=+-(1!', 4(-1\#!7+650(')\#1!7\##1: 04&!(++<)9!\\ P=')!')!@0(-0: (\#!7+6!.=+)\#!0401\#5'4)!0, 1!',).'.-.'+,)!.=0.!=0@\#!\\ (\#))!\#; <\#6'\#, 4\#!0, 1!\#; <\#6.')\#!', !<6\#<06', /!7-, 1', /!\\ 0<<('40.'+,)^{!!}9! \end{array}$

%

	30#'	\$#B4:	%S%	88".		#2\$%			3"(00%\$'	
--	------	--------	-----	------	--	-------	--	--	-----	--------	--

	P=#!<6+.)!06#!=#(<', /!.+!(#01!0!4-(6#!4=0, /#!046+))!.=#!
	-, '@#6)'.'#)?!:!5+6#!4+-(1!: #!1+, #!.+!#5: #1!.=')!046+))!0((!
)4=++()Y1#<06.5#, .)9!D0')', /!0\$06#, #))!+7!.=#!+<<+6, '.'#)!
	7+6!4+55#64'0(')0.'+, !0, 1!#, .6#<6#, #-6)=' 05+, /!)1#, .)!</th
ļ	0, 1!0401#5'4)!\$'((!46#0.#!

. .

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!""#$%&'"()*#(+&, +-).)/"'$+-0'&'+0)'")&, +)1#-&, )2%0&)3!"4*5"+67)1897):;::)
!
* ""7%) "7.4) $/235B#"$) %82) ) .#) "3#%$' #("$%#(' 3%0(2$#B#"$) %-437.35!
```

$$\begin{split} \mathsf{P} = \#!'' + 6. = !\mathsf{E}0).!')! = + 5 \#!. + !7' @ \#! (\#01', /!-, '@ \#6)'.'#) @ U - 6 = 0 5 h!'' \# \$40). (\#h! \\ '' + 6. = -5: 6'0h!\% -, 1\#6(0, 1!0, 1!P#\#))'1 \#9! \mathsf{P} = \#8!06\#! \& \#8!4'@'4!04.+6)?!/\#, \#60.', /! \\ \#4+, +5'4?!) + 4'0(?!0, 1!4 - (.-60(!'5 < 04.)!7 + 6!. = \#'6!(+40('.'\#)!0, 1!. = \#!6\#/'+, 9!) \end{split}$$

P=#!-, '@#6)'.'#)!06#!!0, 4=+6!',).'.-.'+,)!0, 1!.=#'6!'5<+6.0, 4#!0, 1!4+, .6': -.'+, !

P=')!)#4.'+, !<6+@'1#)!0, !+@#6@'#\$!+7!.=#!

!'''#\$%&'''()*#(+&,+-).)/'''\$+-0'&+0)''')&,+)1#-&,)2%0&)3!''4*5''+67)1897):;::)

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!''''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

4))'\$F!

$$\begin{split} & \mathsf{E}^{@0}(-0.'+, |\#@'1\#, 4\#|', 1'40.\#)! = \#!-, '@\#6)'.'\#) |06\#!/\#, \#60.', /!0!<+)'.'@\#! \\ & \#4+, +5'4!'5<04.!=6+-/=!=\#'6!', +@0.'+, !04.'@'.'#) !!\%+5\#!+7!=')!=0) !: \#\#, !\\ & 7\#(.!0(6\#018!T!', !=\#!6\#/'+, !+7!VJJ!, \#.!\texttt{A}+:)!0, 1!\texttt{KMN5!}, \#.!\texttt{A}=1)!=0) !: \#\#, !\\ & 10.\#'''!\texttt{S}'=!5+6\#!\texttt{A}+:)!0, 1!\texttt{A}=1)!, \#1.+1!: \#146\#0.\#1!', !=\#!7-.-6\#!0)!0!\\ & 6\#)-(.!+7!=\#!', @\#).5\#, .)9! \end{split}$$

$$\label{eq:second} \begin{split} & \$ - <<+ 6. !') ! \# 77 \# 4. '@ \# ?!. 06 / \# . \# 1! 0. !. = \# !6 \# / '+,]) !\& \# 8!) \# 4. +6) ?! \$ \# ((! 50, 0 / \# 1! 0, 1! 5 \# \# .', /!. = \# !, \# 1) !+7 !: \#, \# 7' 4' 06' \#) 9! 2, '@ \# 6) '. '\#) != 0 @ \# !0!). 6+, /!. 604 \&! 6 \# 4+61! 1 \# ('@ \# 6', /!7-, 1 \# 1! < 6 + A \# 4.)! 0, 1! = 0 @ \# !: # \#, !0: (\# !. +! 010 < .!` - '4 & (8!. +! \#; . \# 6, 0(! 4 = 0((\#, / \#)!) - 4 = !0) !* + @' 1! KL 9! P = \# !', , + @ 0. '+, !04. '@'. 8!') ! 50 &', /!0! 6 \# 0(! 1'77 \# 6 \#, 4 \# ?! = \# (<', /!. +! 46 \# 0. \# !0!) . \# <> 4 = 0, / \# !', !. = \# !<04 \# !0, 1!` -0('. 8! +7! -, '@ \# 6)'. 8!) < ', >+ -.) 9! \end{split}$$

2, '@#6)'.'#)!06#!4+((0: +60.', /!#77#4.'@#(8!\$='4=!011)!@0(-#!.+!.=#!+77#6?! 704'('.0.#)!&, +\$(#1/#!#;4=0, /#!: #.\$##, !+6/0, ')0.'+,)?!0, 1!#, 0: (#)!%aE)!.+! =0@#!044#))!.+!0!\$'1#6!.0(#, .!<++(!0)!\$#((!0)!='/=!.#4=!704'('.'#)!0, 1! $\#^{-} -! < 5\#$, .9!

P=#!#@'1#, 4#!', 1'40.#)!.=#!', , +@0.'+, !)-<<+6.!')!=#(<', /!6#.0', !/601-0.#)!', ! .=#!6#/'+, !0, 1!')!1#@#(+<', /!.=#!)&'(()!+7!.=#!7-.-6#!\$+6&7+64#9!

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!""#\$%&'"()*#(+&, +-).)/"'\$+-0'&'+0)'")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

Z =#6#!<+))': (#!+-.<-.!0, 1!'5<04.!10.0!=0)!: ##, !0//6#/0.#1!046+))!.=#!<6+##4.)9! g+\$#@#6?!.=#!+-.4+5#)!/#, #60.#1!: 8!" +6.=#6, !R44#(#60.+6!C=0)#!M!06#!, +.#1!)#<060.#(8?!0)!.=#!+-.<-.)!Y!3CX)!06#!1'77#6#, .!.+!.=+)#!6#<+6.#1!: 8!.=#!EDU^!7-, 1#1! <6+A#4.)9!!

$$\begin{split} & E@0(-0.'+, !#@'1#, 4#!', 1'40.#)!.=#!', , +@0.'+, !04.'@'.'#)!06#?!+@#60((?!$+6&', /!$#((!0, 1! /#, #60.', /!<+)'.'@#!'5<04.)!', !.#65)!+7!, #$!#5<(+85#, .!0, 1!_R?!0)!$#((!0)!5+6#! ^-0('.0.'@#!'5<04.)!)-4=!0)!=#(<', /!).6#, /.=#, !.=#!', , +@0.'+, !4-(.-6#!0, 1!40<0: '('.8! 05+, /!.=#!$+6&7+64#!0, 1!%a E)9!g+$#@#6?!'.!')!'5<+6.0, .!.+!, +.#!.=0.!7+6!50, 8!+7! .=#!', @#).5#, .)?!.=#6#!$'((!: #!0!.'5#!(0/!: #.$##, !.=#!', , +@0.'+, !04.'@'.8!0, 1!.=')! (#01', /!.+!`-0, .'7'0: (#!+-.4+5#)!)-4=!0)!, #$!A+:)!0, 1!', 46#0)#1!.-6, +@#69!P=')!')! <06.'4-(06(8!.=#!40)#!7+6!(+, /#6!.#65?!', .#,)'@#!<6+A#4.)!)-4=!0)!WWC!$=#6#!0! /601-0.#!$+6&)!$'.=!0, !%a E!7+6!.=6##!8#06)9!$$

P=#!7+((+\$', /!)#4.'+,)!4+,)'1#6!)+5#!+7!.=#!'5<04.)!06')', /!76+5!.=#!, ', #! ', , +@0.'+, !<6+\#4.)9!!



W@#60((

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!'''#\$%&'''()*#(+&,+-).)/'''\$+-0'&'+0)''')&,+)1#-&,)2%0&)3!''4*5''+67)1897):;::) ! !'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

3.1.2.1 C ea b e e , J b a d GVA P=#!<6+A#4.)!06#!/#, #60.', /!\$#0(.=!7+6!.=#!6#/'+, 0(!#4+, +58!>46#0.', /!, #\$! : -)', #))#)?!A+:)!0, 1!_R9



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!""#$%&""()*#(+&, +-).)/""$+-0'&'+0)"")&, +)1#-&, )2%0&)3!"4*5"+67)1897):;::)
!
X.!')!0()+!$+6.=!, +.', /!.=0.!1-#!.+!.=#!, 0.-6#!+7!04.'@'.8!0, 1!.06/#.!)#4.+6)!
```

)-<<+6.#1?!

!'''#\$%&'''()*#(+&,+-).)/'''\$+-0'&'+0)''')&,+)1#-&,)2%0&)3!''4

!'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

X5<04.!#@0(-0.'+, !+7!C6+)<#3P!0, 1!X, 7+650.'4!_#, .-6#)!T!2, '@#6)'.8!+7! E1', : -6/=?!D+XUkF9j ^{#+}h!

X5<04.!#@0(-0.'+, !+7!%4+.(0, 1])!X, , +@0.'+, !*#, .6#)!C6+/6055#?!D+X0kj %b!>! kFyj ^{#!}h!0, 1!!

BX%!D#)#064=^{#"}?!0@#60/#!D+X!+7!23!', , +@0.'+, !/60, .!)-<<+6.!<6+/6055#)! 7+6!%a RDP!0, 1!*+((0: +60.'@#!Di U0!kF%!>!kL%%!!

P=')!', 1'40.#)!'' +6.=#6, !R44#(#60.+6!')!('&#(8!.+!1#('@#6!6#.-6,)!', >(', #!\$'.=! 4+5<060: (#!', .#6@#, .'+,)!.=0.!)##&!.+!)-<<+6.!Di UX!04.'@'.8!0, 1!', , +@0.'+, ^{##}! !'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

`'.0""#("%:\$2<./"%2<#("%5"5.23%"0%%:/'8"%<2\$%08."38"%37%.332;'#.23%P=#! "+6.=#6,!R44#(#60.+6!#@0(-0.'+,!,+.#1!.=0.!=#!-,'@#6)'.'#)!:#',/!)##,!.+!

!""#\$%&'"()*#(+&, +-).)/"'\$+-0'&'+0)'")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

, 4:: 2\$%3"70%2%9%3%30; %%2%9% "3.35</ (%)2%9% (5.5)2/4) %(5.5)2

-, '@#6)'.'#)!=0@#!50, 0/#1!\$=0.!06#!+7.#, !4+5<(#;!<6+A#4.)!\$#((?!', 4(-1', /! 50', .0', ', /!/++1!7', 0, 4'0(!4+, .6+()!0, 1!4+((0.', /!0!\$'1#!60, /#!+7!5+, '.+6', /!10.09!
$$\begin{split} & \texttt{X.!'} ! 4 (\#06!76 + 5!.=\#! \#@0(-0.'+, !\#@'1\#, 4\#!.=0.!.=\#!-, '@\#6)'.'\#) ! < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (\#! + 1, !) < (08!0, !'5 < +6.0, .!6 + (#! + 1, !) < (08!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (16!0, !'5 < +6.0, ... < (1$$

!""#\$%&'"()*#(+&, +-).)/"'\$+-0'&'+0)")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

P=#!.8<#!+7!', , +@0.'+, !04.'@'.8!1#('@#6#1!.+!10.#!: 8!.=#!-, '@#6)'.'#)!')!#, .'6#(8! 6#(#@0, .!0, 1!=0)!.=#!<+.#, .'0(!.+!4+, .6': -.#!)'/, '7'40, .(8!.+!.=#!G#@#((', /!2<! 5'))'+,)9!

P=#!23!%=06#1!C6+)<#6'.8!^-, 1!')!0!!<'((06!+7!.=#!G#@#((', /!2<!0/#, 10?!', @#).', /! ', !#4+, +5'4!/6+\$.=!0, 1!6#/#, #60.'+, !', !.=#!6#/'+,)!+7!.=#!23?!6#<(04', /!.=#! <6#@'+-)!E-6+<#0, !%.6-4.-60(!X, @#).5#, .!^-, 1)!\$='4=!#, 1#1!\$'.=!.=#!23!(#0@', /! .=#!E-6+<#0, !2, '+, 9!!

P+!=#(<!6#0(')#!.=#!\+@#6, 5#, .])!G#@#((', /!2<!0'5)?!%C^!\$'((!', @#).!.+!04='#@#!.=#! 7+((+\$', /!+: №4.'@#)0!

```
B++).!<6+1-4.'@'.8?!<08?!A+: )!0, 1!('@', /!).0, 1061)!
%<6#01!+<<+6.-, '.'#)!0, 1!'5<6+@#!<-: ('4!)#6@'4#)!
D#).+6#!0!)#, )#!+7!4+55-, '.8?!(+40(!<6'1#!0, 1!: #(+, /', /!
E5<+$#6!(+40(!(#01#6)!0, 1!4+55-, '.'#)!
```

 $\begin{array}{l} \texttt{X}, \texttt{!}=\#\texttt{!''} +\texttt{6}=\texttt{!E0}).\texttt{?!23\%C^!\$'((\texttt{!:} \#\texttt{!50}, \texttt{0/\#1!}:\texttt{8!}=\#\texttt{!}.\$+\texttt{!}^*+\texttt{5}:', \#\texttt{1!R-.}=+\texttt{6'}.'\#)\texttt{?!0}, \texttt{1!} \\ \texttt{7}+-\texttt{6!}(+40(\texttt{!0-.}=+\texttt{6'}.'\#)\texttt{!d\%}\#\texttt{!P0}: (\#\texttt{!0!}: \#(+\$\texttt{e}\texttt{9!}\texttt{X}, \texttt{!}.+.0(\texttt{?!}=\#\texttt{!}\texttt{6}\#/'+, \texttt{!=0})\texttt{!0}, \texttt{!0((+40.'+, \texttt{!+7!})} \\ \texttt{KKFJ5?!}\$=\texttt{'4=!'}, \texttt{4(-1\#)}\texttt{!KMj} \texttt{\$V5!7+\texttt{6!a}-(.'<(\texttt{8?!0!}, \#\$!, \texttt{0.'+}, \texttt{0(!<6+/6055\#!.+!'5<6+@\#!} \\ , -5\#\texttt{6}\texttt{0}\texttt{48!})\texttt{\&'()}\texttt{9!} \end{array}$

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12) 9.3''7%A4#(2\$.#F%S%U28'/%A4#(2\$.#F!	>Y, ! P%A//28' #.23%M\MMSMH%F% M\MNSMLX%
"+6.=!+7!P8, #!*+5:', #1!R=+6'.8!	kVK915!
P##)!_0((#8!*+5:', #1!R=+6'.8!	kj 09N5!
U-6=05!*+-, .8!*+-, 4'(!	kNN905!
\ 0.#)=#01!*+−, 4'(!	кКМ9b5!
%+=!P8, #)'1#!*+-, 4'(!	kL105!
%-, 1#6(0, 1!*'.8!*+-, 4'(!!	kK09V5!
?2#' /%	GJQ/I/) %

!

$$\begin{split} \mathsf{P}=\#!\,^*+5:\,',\,\#1!\mathsf{R}-.=+6'.\,'\#)!0,\,\,1!\mathsf{G}+40(!\mathsf{R}-.=+6'.\,'\#)!=0@\#!\#04=!1\#@\#(+<\#1!X,\,@\#).5\#,\,\,.!\\ \mathsf{C}(0,\,)!\$='4=!1\#.0'(!=+\$!23\%\mathsf{C}^{1}6\#)+-64\#!\$'((!1\#('@\#6!046+))!.=\#!.=6\#\#!',\,@\#).5\#,\,\,.!\\ <6'+6'.\,'\#)!+70!4+55-,\,'.\,'\#)!0,\,\,1!<(04\#h!)-<<+6.',\,\,/!(+40(!:\,-)',\,\#))h!0,\,\,1!<\#+<(\#!0,\,\,1!\\)\&'(()?!.+!0116\#))!(+40(!<6'+6'.\,'\#)9!\mathsf{E}04=!X,\,@\#).5\#,\,\,.!\mathsf{C}6'+6'.8!')!0('/,\,\#1!.+!,\,-5:\,\#6!+7!\\ \mathsf{G}\#@\#((',\,/!2<!5'))'+,\,)0! \end{split}$$

12)) 43.#.''0% 37½ /' 8''^!0('/,)!.+!G#@#((', /!2<!5'))'+,)!F?!b!0, 1!L!>!: -'(1', /! <6'1#!', !<(04#?!'5<6+@', /!\$#((: #', /?!0, 1!6#1-4', /!=#0(.=!', #`-0('.'#)9!

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!""#\$%&""()*#(+&, +-).)/"'\$+-0'&'+0)'")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

, 4: : 2\$#.35% J28' /% /40.3''00^!0('/,)!.+!G#@#((', /!-<!5'))'+, !K!>!: ++).!<08? ! #5<(+85#, .!0, 1!<6+1-4.'@'.8?!0, 1!/(+: 0((8!4+5<#.'.'@#!4'.'#)h!5'))'+, !M!T!

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+!"
```

!''''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

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!'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

('5'.0.'+,)9!X7!7-,1#6)!4+-(1!#;.#,1!.=#!.'5#)40(#)?!5+6#!05:'.'+-)Y(+,/#6>.#65! <6+A#4.)!4+-(1!<+.#,.'0((8!:#!)-<<+6.#1!0,1!508!1#('@#6!/6#0.#6!:#,#7'.)9!!!

 $\begin{array}{l} \mathsf{A7''D4' \#'\% \$2@'8\#\%) '3'5'') "3\#\%''024\$8''1!^+6!<6+\texttt{A}\#4.)!.+!:\#!)-44\#))7-(!'.!')!\\ '5<+6.0, .!.=\#8!=0@\#!/++1!<6+\texttt{A}\#4.!50, 0/\#5\#, .!)8).\#5)!', !<(04\#?!', 4(-1', /!01\#^{-}-0.\#!6\#)+-64\#)9!P=')!')!<06.'4-(06(8!.=\#!40)\#!7+6!5+6\#!4+5<(\#; !<6+\texttt{A}\#4.)!', @+(@', /!5-(.'<(\#!1\#'@\#68!<06., \#6)9!)\\ \end{array}$

!""#\$%&'"()*#(+&, +-).)/"'\$+-0'&'+0)"")&, +)1#-&,)2%0&)3!"4*5"+67)1897):;::) !

*+,)-(.0.'+,!\$'.=!.=#!?'@#!-,'@#6)'.'#)!0()+!'1#,.'7'#1!0!)50((!,-5:#6!+7!4=0((#,/#)!',4(-1',/0!

 $*+5 < (\#; !50, 0/\#5\#, .!0, 1!015', ').60.'+, 0!P=\#!50, 0/\#5\#, .!0, 1! \\ 015', ').60.'+, !+7! < 6+A\#4.)!) - <<+6.#1!: 8!23%C^!508!: #!4+5 < (\#; ?!$'.=!#04=! \\ 7-, 1\#6!d4+5: ', #1!0-.=+6'.8!0, 1!(+40(!0-.=+6'.8e!1#@#(+<', /!1'77#6#, .! \\ 0 <<('40.'+, !<6+4#))#)!0, 1!<0<#6$+68?!0, 1!6#`-'6', /!1'77#6#, .!', 7+650.'+, !.+! \\ #@'1#, 4#!1#('@#68!0, 1!160$!1+$, !7-, 1', /9!P=#!2, '@#6)'.'#)!508!, ##1!.+!', @#).! \\ ', !0!4#, .60(!015', ').60.'@#!.#05!.=0.!40, !50, 0/#!0, 1!4+>+61', 0.#!.=')!.0)&9!!$

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$$\begin{split} \mathsf{P} = \#!'' + 6. = & |\mathsf{E}0\rangle . !: \ \#, \ \#7' .) !76 + 5! 7' @ \#! -, \ '@ \#6)' . '\#) ! \$ = +! 50 \& \#!0!)' /, \ '7' 40, \ .!4+, \ .6': -.'+, ! \\ .+! .= \#!6\# /'+, \ 9! \mathsf{P} = \#8!06\#!16' @ \#6)! + 7! \#4+, \ +5' 4! / 6+ \$.=!: \ +. =!0)! 50 \mathbb{A} + 6! \#5 < (+8\#6)!0, \ 1!', ! \\ .= \#'6!6+ (\#!', \ !1 \# @ \# (+<', \ /! = \#!.0(\#, \ .!0, \ 1!) \&'((\#1!\$ + 6\&7 + 64\#! + 7!. = \#!7 - . -6\#!1. + / \# .= \#6!\$'. =! \\ (\#01', \ /!6\#) \#064 = !0, \ 1!', \ , \ +@0.'+, \ !. +!0116\#))!: \ -)', \ \#))!0, \ 1!) + 4' \#.0(!4 = 0((\#, \ /\#)!) - 4 =! \\ 0)!, \ \#.!S\#6 + !0, \ 1! = \#0(. =!0, \ 1!\$\#((:\ \#', \ /9! \mathsf{P} = \#8!06\#!0, \ !'5 < +6.0, \ .!0))\#.!0, \ 1!5 -).!: \ \#! \\)\#\#, \ !0)! \&\#8! < 06., \ \#6)!', \ 11\#('@\#6', \ /!6\# /' +, \ 0(!0, \ 1!, \ 0.'+, \ 0(! < +('48! +: \ \mathbb{A}\#4.'@ \#))!! \\ < 06. \ '4 - (06(8!\$'. =!6\# / 061)!). +!G#@ \#((', \ /!2 < 9!) \end{split}$$

$$\begin{split} & \mathsf{R!6\#@'\#\$!+7!.=\#!, ', \#!7-, 1\#1!', , +@0.'+, !<6+\texttt{A}\#4.)!', 1'40.\#)!.=\#!04.'@'.8!')!/\#, \#60.', /!\\ & 0!<+)'.'@\#!\#4+, +5'4!'5<04.9!\%+5\#!+7!.=')!=0)!: \#\#, !7\#(.!0(6\#018!T!', !.=\#!6\#/'+, !+7!)\\ & \mathsf{VJJ!}, \#.!\texttt{A}+:)!0, 1!\texttt{KMN5!}, \#.!\texttt{R!46\#0.\#1!.+!10.\#!\$'.=!5+6\#!\texttt{A}+:)!0, 1!\texttt{R!}\#; <\#4.\#1!\\ & .+!: \#!46\#0.\#1!', !.=\#!7-.-6\#!0)!0!6\#)-(.!+7!.=\#!', @\#).5\#, .)9! \end{split}$$

!'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

%.06.>-<)!0, 1!)<',>+-.)!\$'((!, ##1!/6+\$!+, !Y!7+((+\$!+, !)<04#?!)+!',).'.-.'+,)! , ##1!.+!50', .0', !(', &)!\$'.=!704'('.'#)!)-4=!0)!g#(';!0, 1!" EPC06&9!

R!6#/'+, !\$'1#!/601-0.#!<(04#5#, .!)4=#5#!\$+-(1!: #!: #, #7'4'0(!: -.!\$'.=! 7(#; ': '('.8!.+!.0'(+6!.=#!(#, /.=!0, 1!7+4-)!+7!04.'@'.8!.+!%aE!, ##1)9!

"##1!5#1'-5Y(+, />.#65!4+55'.5#, .!60.=#6!.=0, !)=+6.>.#65!7-, 1', /!.+! 5', '5')#!4+, 7-)'+, !0)!<6+A#4.)!).+<Y).06.?!: -.!0()+!.+!)-<<+6.!(+, /#6!.#65! 6#)#064=!<6+A#4.)!)-4=!0)!XXXC9!

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R1#`-0.#!<6+A#4.!50,0/#5#,.!6#)+-64#!.+!#,)-6#!#77#4.'@#!1#('@#689!

```
!'''#$%&'''()*#(+&, +-).)/'''$+-0'&'+0)''')&, +)1#-&, )2%0&)3!''4*5''+67)1897):;::)
!
```

'' #\$!%&'(()!*+,)-(.', /!\$+-(1!('&#!.+!.=0, &!.=#!7+((+\$', /!7+6!.=#'6!', <-.!.+!.=#! 6#<+6.0!!

6#<+6.0!!

g\$5' 3.0' #.23%

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!''''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

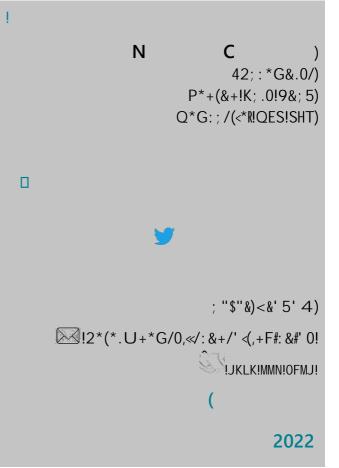
!""#\$%&""()*#(+&, +-).)

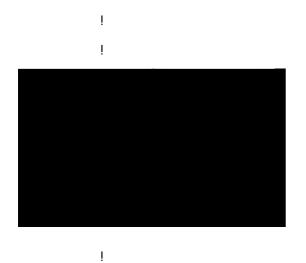
!''''#\$%&'''()*#(+&,+-).)/'''\$+-0'&'+0)''')&,+)1#-&,)2%0&)3!''4*5''+67)1897):;::) !

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!'''#\$%&'''()*#(+&, +-).)/'''\$+-0'&'+0)''')&, +)1#-&,)2%0&)3!''4*5''+6

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





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