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5 H S R U W L I Q F O D R W L R R Q R R G H  
6 H O I U H I H U U D O  
5 H S R E W Q R W K W X G H Q W  
5 H S R E W P H P E H R U W K D F X R W K H W D I I  
5 H S R U E W D P S X R O I D F Q H G H V L G H Q F H W D I I  
6 D Q F W L R Q V  
3 D S H U V  
3 U H V H Q W D W L R Q V  
& D P S X R U N  
5 H V W L W X W L R Q  
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5 H S U L P D Q G  
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6 X V S H Q V L R Q  
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\* R R G R F L W O D Q G L Q J  
+ R Q R U V W H H F R U G V  
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R I W K & R O O H J H  
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5 H Y L H R D U I G L F D Q G H P E H U V  
5 H V L G H Q H H U L Q R V P L W 2 W I L H H D Q G H P E H U V

7 K H R Q R U V W H R X Q C R H Q K S H U H P I W K H U R O K J K W & R O O H J H W D R Q  
9 D O X G V V K R Q H D V S O D B W H U H G L K W K R Q R U V W G H P D Q S C M U V R Q D W O H R U L W \\  
H D F K W X C H Q C W R S H U D E W W K M W X C E R Q W Q G X S S R U E W H E X D Q W W B W X G H Q W V  
D U S H U V R Q D I O S R Q I R I W E K O H Z F R Q G X D W E O L J D W W R O H U H G L R P R X Q L W \

) R U P R U H Q I R U P B Q W L R R Q R U V W H R V H U H G E R V Q K W D E M I L R H W K H D Q I  
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: H W K O H U H G L R P R X Q D W H R P P L W W B H G Y H O B S L Q I L U L I Q D F K W X C H Q W  
V H Q R B H U V R K R D Q Q G H V S R Q V S L Q E L R O P L S W R P K R Q D Q U V R U W K U L D K W Q H V V  
H V V H Q H O H I D E R Q W K L R P P L W P H Q H R Q R U V W H D P H W K R G K L E I Q G L Y L G X D O  
K R Q R D U H U R W H F O M H D L Q W D S L Q G I G V K R Q R D F D M E Z C R H Q U H J D U G V D G L R O B W L R Q  
W K H R P P L W P D I Q B R U U H D W W L R I Q W D N H Q

, I, D P L Q L R O B W K R R Q R & R G W S U H Y M E W S D U W K R Q R U V W H R Z H D N H Q L Q J  
R X V \ V W H I V H O I ± J R Y H U I Q D Y D Q W E O L J D W R I H S Q U W H W R K S H U R S D X W K R U I L W L H V  
, D P D Z D R H D Y L R O B W K R R Q R U V W H E P D Q R W K V X G, H V K W F D O V G E L D W W B U K H  
D W W H R I W K B W X C H M O Y L R O B W I H R V S R Q W L E K I R L P W X Q L W \

, Q F K R R V L H Q U H G L R W O K O H J P I D F F H S W I K O R Q R U V W H D P D Z D R I O L S F D O H U H G L W K  
V W X G, H D Q W H V S R Q I R I H E Q M X U W L K Q W H R Q R U V W H H D W O V L P H D U U R L X H G

+ R Q R 3 U H G J H

, G R V R O H P S C C H A P J \ H K R Q W K I D W R Q D V D P D V W X C H Q H W H G L R W O K O H Z I H O D L W K I X O O \\  
X S K R W K S H U L Q F R S W O H R Q R & R G D I Q Z L O D V S D I Q E V E V H W K S H U R F H G X Q G I V  
U H T X L U H P I W Q H R Q R U V W H D O S B H G P J H V X S S R U R W V \ V W H I V H O I J R Y H U Q P H Q W  
D Q Q W H S I D U B X Z D R I O L D W H U H G L R W O K O H P I D I N W K S L O V H G L J Q L H R Z P \ I H O O R Z  
V W X G W Q W M J Q L R K I L J U K H V R W N H H R S X I R Q R R U H Y E E U D H Q R X U  
V H O I J R Y H L R Q P H V Q P W U R Q J

( Q U R O O I P Q R W R P S O N Q W V L W X C H D Q W J Q W & R Q B O H G J H

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7 K H R Q & R X Q I F L P S R V H W K F H D W U K R O L F H Q W R U D K X S S R R X Q V F W C R H U  
V H F U H W F I O \ H W X U R H S U H V H Q W D I W R W H I V H V K P D R S K R P M U X Q D Q G H Q L R U  
F O D V R Q F R P P X W H I S U H V H Q W E L V Q L V H S U H V H Q W D W W E H I D F X D H W E H U  
7 K H D V V L V G W I D Q I W W X G E I Q W R C U H V L J Q K E I \ C H O U Y D Q R Q Y R W I P E H U Q D V  
D G Y L V Q G G L W W K Q R O L F H Q W R I D Q G X S S R R X Q V I Q Q R E R D E E P E H D V H  
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+ HDULQRPPLWWHH

7KHVVLGH+QHDULQRPPLWVDEHDQRTWK+RQR&RXQFRBUGLQDWWKHG  
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L W KSHW RIR Q RFWL WHNDV R X UW KZLRX O G E RFR Q V L GDNV G U J L D U L V P  
V L QIE WH S U H WHKZHVURND Q R WVK KHDVQ RFWH HQF N Q R Z O R C FJLHVG H G

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" 'L V F U L P L Q G D W R N S E R X W H H G R I P [ S U H V V E I H R Q R S F F R U G W L Q K H  
0 H U H G L R W O H D H D V V D I Q Q W Q ' L V F U L P L R Q D W F L R Q U L P L Q M U W H I D R V L Q J  
V R P H R X Q Q I D Y R E B E D X R V H H O L U I D F H R O R D W L R Q I D I J H V H [  
G L V D E L I Q W W V D V Q W X [ X R D O L H Q W R D Q R W Q F H U W H S R U R \ W H E A \ W H G  
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" + D U D V V P H D Q W V V P E Q Q W X Q Z V I O F I R O H F W V U H Q E S K Q V L R D O D S K L F  
F R Q G X H K W W R V H Y H R U S H U Y D W K I D W X E V W D I Q Q W L D Q Z H W K W I D U J H W H G  
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+ D U D V V P E Q Q W R W L Y D U V D I G R Q R Q H I W K S H U R W H F D W H H G J R O U L I V E X V H G H U  
W K G H I L Q R K L R Q U L P R Q D Q R M R K E D U W H S R U R \ W H E A \ W S I S C O L F O D E Z K H L V  
F D Q Q F O E X G Q G X H K W W Q W H Q R H E D U H D V R Q S I E L O V R Q R Z R X C G Y H  
W K L P S D F E W H L Q J H P H D Q L Q W L P L G R W W Q D E K V Z K H Q L U H D W Q R W K H U  
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- | ( [ D P S O R I F R Q G X H K W D W E H D Q F R M G L V F U L P R Q K D W I D R V I P Q H Q W X G H  
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- | 9 H U E D F O R F R Q G K Q W O X G L Q Q H J D W I W Y H U H R W Q S I H Q J F R I H H E D O  
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Y L R O D D M F R Q V M I R J F D W I D Q H H G H O D I Q Q V K & R O O H I N H W Y K H V J I K O W R R  
U H S R \ X W S H F W R I C D W B L R J D X W K R U L W L H V

” 3 K \ V L F D O F R Q G X W K W Q W H Q W R I U R I Q E N C O H M V E L Q W G K O \ U W R Q \  
S H U V R Q

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U H S R U W W K H L W ; O S R R U G L Q I D W R C & L W O K O Z H J Q I R W R O H M H J W H L O V F R Q G X F W  
L Q F O X E X Q W O M L P L W I Q R Q F R Q V H Q V X I D Q W H U F R K Q V F R Q V H Q V X D O  
F R Q W D H W X H ( S O R L W D W X H Q U D V V F H Q W R C H U F U H Q D W L Y R Q V O H I Q S F H  
L Q F O X C R I P Q H V W L F S Q W W P I D R M O H D Q I G H W Y Q R O H R Q W F W D O N L Q J

” 7 K U H D W E H Q K I Q Y L Q X U L W R W H Q E I D S O U H V R I L Q Q W R D X V H P L Q H Q W  
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P L V F R Q Z X D R G G U H W K H U R W K R O O H J L M ; O S R O I D Q S U R F H G X U H V

\$ O F R K D R Q Q U X B R O L Y L R O D 2 W L R Q I j / C L \_ Q O W S H T . @ < 0 0 4 F 0 0 4 4 0 0 5 7 0 0 4 C 0 0 5 2 > 0 . 6 < 0 0 5 1 > 0 . 6 < 0 7 - > ] T J

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3RVVHVRIIRQHDIRURWKZHDSSRQ&ROOSHURISHRUWROOHJH VSRQVRUHG  
IXQFWLRQV

5HWDOLDMHLRIQQJWWHPWWHFHJHWULEWYLFHQJBLQQVRQHRYRQWIKH  
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UHWULEWYLFHQXVWVVRVHYHDQHSYDYWKDWWKEVWDIQWLEIDQDNRV  
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7KHRWPLVXRIRUGDPDJWRQ\$SHUVSRQIRGRUQWQVWLW&WIRVQV  
DFDGHPLFIDOWHGRSQIRSHZKVMUHOYRFDWQ&ROOSHURISHUW\

8QDXWKRHQWILQWRFFXS DMRUWQH VXD&RROOIHJHLORLWLRHSHUW\

8QDXWKRXLVHWKQDPHRVWKRORRIRWIKQDPHRMPHPEHRUJDQLJLWIKRQV  
&ROOFRIPIPXLW\

9LRODWRIRQVOIRDLFLWVIRUWIKK&LWXGHIDQNGERRN

9LRODWRIRQIRWHUWIKQHVLGKIDQHQV FDPDSDSDUWPPWQWHDQWIKWIKH  
OLEUWIKHLQKQDQ&WKFIRORHZQHIGSHUDRWIHGXODWRHSGHSQWRWKHU  
FRQG&FMPHGWKROROWRHXQGHVLRUQDHFHSW&K&LQWHUZIHWKIV  
WKUHDWIKHQOHDHJQIRWQILM&OXFDWSLRQSDRQHV

,JQRUDQEHUX&HUHJXODWIKIRQVDFHFFHSW&DGHIEVWK&RQR&RXQFLO  
7K&ROOKIDMXULV&YFMDLRQFRQW&DWFXRQDPS&VLQDQ\$URJURDUP  
DFWLVSIRQVREUW&RORR&ROROHINHWYKHVJK&NDNFKDU RHV  
FRQYLFRIRIRQDRMIHRQWVWDRVCHR FODZLWWXGHRDWWYRHRQV L GHUDWLRQ  
DQDFWRIRK&RQRURD&RQRXQFQORWKEHDVIRVUHPRYDRPDPSX,QDGGWLRLQ  
PLVFRQ&XFWHGLW&KGZIQVNH FDP SLQVFOXEG&Q&R&MLP LWR&RQGX&K&W  
RFFXRQRWKFIRORIRUKQLYHRDMSV\VHVEHFDXVIRURQR&RQRXQF&WZREQ  
WKEHKDYLQRVH UZIHWIRGLVUXVW&K&RHOOHVHGXFDPILRQVDR&QVHDH W\  
RIRKFRPPXLW\

\$1RWHER%VDV 5HQDFWIGGID&MLVQFL&DQW XUVGILXCFULPLKQDUWRU\LQJ  
RULQWLP LIG&W&W&WU RHIMFRPPLWDWELGQQVQGLYR&X&D&X&S&VIRGE XQRW  
OLPLW&H&GW&S&HUFHUYD&H&W&K&Q&EK&OW&X&H&J&H&Q&G&H&G&H&Q&W&L&F&L&R&H&F&R&Q&R&D&W&E&X&V  
VH[X&D&O&L&H&Q&W&D&E&W&D&E&W&D&W&L&R&Q&D&D&P&L&J&U&D&W&L&R&Q&W&H&U&D&W&R&O&L&W&L&F&D&O  
D&I&L&O&L&D&H&O&L&R&Q&R&S&L&U&L&W&X&Q&W&L&Q&R&W&K&E&D&V&L&V&R&W&H&E&V&S&I&S&O&L&H&D&E&G&H&W&D&O&W&H  
R&O&R&F&O&D&Z&S&V&E&L&D&Q&F&L&G&E&Q&W&F&X&K&H&W&W&H&L&F&I&W&L&Q&W&H&Q&R&V&R&Q&Q&W&H&Q&W&L&R&Q&D&O  
W&D&W&H&H&U&R&I&D&Y&H&U&E&Q&W&H&U&D&F&W&H&L&R&L&Q&W&H&S&K&D&F&M&H&Q&R&O&H&U&R&H&V&Q&I&R&H&Q&U&D&I&E&W&K&R&Q  
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L Q F L G H D Q M O V L R F O I X G M L V R Q O T Q R P W H W K G H I L Q R W Q R Q R & R G H  
Y L R O B W U R Q E K K W D Y H H J D W L P S E I D Q E D U R P Q R W K E Q W Q W K F H P S X F R P P X Q L W \  
\$ Q D F W U M M S R I Q W H H G W E Q V X D V H D I H Q G Q F O X F D I P S E R D O 3 O H D V H I W W K H  
& R O O H J H H N S D E W V S R Q V H H V L W R I P R U I H Q I R U P D W R R W E L D V F L G H I Q W V  
G H I L Q Q W R L O H H S R U K W & R O O V H H Q R R W Q O W B G G U K D V P F R Q G X W K W R X J K  
D S S O L F S R I O L H I Q H V R F H V E X H W O W E R U R Y L & S I S D Q W V V L V W W K H R M K H P D \  
K D Y E H H I Q D U P H & H & R O O I H D D F R P P L W W R I G G H Q W H L G X E D W L Q R G V D O H U  
S U R J U D P P R W K F R P P X Q L Q W G W E U H Y H Q W K K H U R R F F F X U U L Q J

: K L O H H H S U H V V V B Q X I Q G Q F R X U D M D G O H D V C K Q L Q W H F Q Q M H T X H V Q F H K V  
D V G L V D J U H H V H Q X F K

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D V W X G L Q W R D P I L U W W D Q H

7 K H R O O R Z D Q F W L U R H Q V P S O Q H R V Q H [ K D X V O L I V W K R G V H H P H S S U R S E L D W H  
W K H R Q R & R X Q B I Q C E D \ E H L P S R V X I S R Q W X G H R Q M L R O D R W W R H R V Q R & R G H  
G H S H Q C K I S R V K H D Y L I W K R H I H Q V H

3 D S H U V

\$ V W X C P H Q B W H U H T X I W R H U G L D S E S F W R U L W H F D P I C Q H H K D Y L Q R G H F L V L R Q P D N L Q J  
7 K H H Q J W K S L Q F G X H D W R W K S H S E Z L E H G H W H U I E L V K R Q R & R X Q F L O

3 U H V H Q W D W L R Q V

\$ V W X C P H Q B W H U H T X I W R H G V I R J U W W D H Q Q X P E H H G X F D W S I U R H Q M D H Q W R D W L R Q V  
S U R J U D P V

& D P S X Z R U N

\$ V W X C P H Q B W H U H T X I W R H C Q G N S H F L Q I X P G H I K R X R I X Q S D Z R G U W R H  
S H U I R U R P C H D P S X D V G H V L J Q E D \ W H K R Q R & R X Q F W W K F X W I W K H W X G W R Q V G  
W K R H S R U W X Q K I M W H W K M S H F L I L F D I W L H R Q V R & R X Q F L Q F W L Q R S U R Y L G H  
G R F X P H Q W R D W X E R Q U E N L Q H Q G H W I K H K D R L U G Y L R R E Q R & R X Q F L O

5 H V W L W X W L R Q

5 H L P E X U V H R H I Q P D J W R U P L V D S S U R S R I S D R V S I H U Q V G \ U R H U L P E X U M R P H Q W  
P H G L H I Q S H Q V R I V Q M X U \

) L Q H V

\$ V W X C P H Q B W F K D U I H G Q H D Q R Q R & R G R I I H Q W K H D P R X R I W K I H Q P H \ E H  
G H W H U I E L V K R Q R & R X Q F Q Q V H G W K E H Q H R I W W O H U H G L R W O K I H R I P X Q L W \

: D U Q L Q J

: U L W Q R H V W K I D R V Q W L Q R I W S L R Q R I W K E R Q F R Q G K F X V Z G R Q J Z X W B S L I Q U L R G  
R I W L R W D M W K Z H U Q I P Q J E H F D X V R I P R U V I H Y H U D H Q F W L R Q V

5 H S U L P D Q G

\$ Z U L W W Q Q X Q H O X W K S R J V L R I P R I U W H Y H G L V F L S O D Q B W I Q Q M Y H R I W  
W K I H Q G R I Q Q R W Y K I R L O I R W I K R H Q R & R G Z H L W R V V D S M H U G R R V G L P 2 H W K H U  
F R P S R Q H Q U W V R O O R Z V

" 1 R W L I L R I S V U R I Q I W V D G L W L R V M X C G P I Q W C F R Q V L G H W H K H L F H  
3 U H V L G R H R V O O H U R I J U D , P W K E H H F P Q R W L I L Q F I D W H L R W D K H L F H U H V L G H Q W  
I R & R O O H U R I J U D R R W H G H V L J Q I H O L W W K S H U H Q Q B D \ D V W K F K D R I U  
+ R Q R & R X Q W R O L D V O H W D W Z H U O

" 7 K H R Q R & R X Q F I L D Q Q V I Z K H U W K W X G S I Q D V F H Q G H S U L Z D Q H O L J W I R O H  
V H U I Y D Q R I I L R I D Q U H F R J Q E D I P S X V J D Q L J D X W I D R V L W Q S H U I R E G  
U H S U L Z D Q H S H F L I R H I G F K D V H

" \$ V W X C P H Q B W D V N W C R R Y H X M W K H H V L G K I Q B D P S X D S D U W I H Q W A D I A V K D G

3 U R E D W D R Q S V H U I R R V G L E I K U Z Q L F K K M H W X C L W Q R V Y H I F H H G I F Q J O H I W O W H Q W L R Q  
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U H J X O D , W E R S Q S 1 7 2 3 / ( \$ 6 ( 1 2 7 ( W K I D W Q W L D N W X C Z K Q W R Q S U R E D M W L R Q  
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I R O O R Z V

- " 1 R W L I L R I S W U R I Q W V D G L W L R Q M X C G W R I M G R Q V L G H W I R G H L F H  
3 U H V L G R H Q R V O O H U R I J U D : E W K V Z R H H N R O O R V W I K I Q J O H O D U D Q H W W H U  
I U R W K H L F H U H V L G R H Q R V O O H U R I J U D P D V E H V H Q W W K S H U H I Q O M R U M L K H P  
D E R X W Q F W L Q R Q K R H I H Q V H
- " 6 W D W H P I H Q W Q W R H S O D F H Q D F R Q I L G H I Q O M V R E H I L R H W K H D Q R I  
6 W X G H Q W V
- " 1 R W L I L R I D V F D E Q I D G F Y L D Q R G I L R H L Q D Q \$ V D D V W D Q F H
- " 6 W X G H Z Q W K Q S U R E D M W I R Q Q H O L W R E H O Y V D Q R I I L E H W R Q Q H F R J Q L J H G  
F D P S X R V J D Q L J D W L R Q
- " \$ V W X C P H Q E W D V N W R R Y R X R W K L H V L G K I Q B U D P S X D S D U W P H I Q W  
I R X Q W R H D G D Q J W R H R R W K H U V

' H O D R I \* U D G X D W L R Q

' H O D R I J U D G X D F M U R I Q B Q G H F H R L S M S O B P W H I W U I M K K I R W I R H H O D R I

\* U D G X D W L R I R P S R Q H Q W I R O O R Z V

- " , I D I W H U K R X H U I R G O R Q R Q V L I L F I G W O B I Q U D G X D W R V M Q X G K H Q Q W W  
D S S H D W K G H Q F V L B I V X E P L Y R W I H Q D S S U R E X W O G H D R Q V W X G W Q W K M  
9 L F H U H V L G R H Q R V O O H U R I J U D P V
- " 3 D U H Q W V D G L W L R Q M X C G D I Q E M V R W L E I W I R G H L F H U H V L G R H Q R V O O H J H  
3 U R J U D P V
- " 7 K H D F D G H D G F Y L Y I R U R H L Q D Q \$ V D D V W D Q Q F I L R H W K S H J L V W I U D U  
Q R W L I L H G
- " \$ F W I Z L Q H U H F R U R C R G L E I H F R U Q V K H I L R H W K H D Q R I 6 W X G H Q W W K H  
2 I I L R H W K S H J L V W U D U
- " \$ V W X C P H Q Q R S D U W L E I Q R P W H I Q F H F H Q W M P R Q Q W D Q F W L I R Y P H H Q  
F R P S O H X V Q H G H D S S U R W K G R E X R J K P H Q F H E H S Q W S D O R F H E V 3 U R Y R L Q W  
F R Q V X O V I D W K R M Q V L V G W I D I Q W W X G H Q W V
- " \$ V W X C Z K Q W H D G X D K W I E R I Q I Q H O D P H G W D N Q D V W R R P S O E W H U H H  
U H T X L U H P H Q W V
- " \$ V W X C Z K Q W Q G H O D I U D G X D W I Q H Q L W R E H O Y V D Q R I I L E H W R Q Q  
U H F R J Q E D P S X R V J D Q L J D W L R Q

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K R X L R V O O R V I K I Q Q D I O F L A R I V R Q H L F H U H V L G H Q R V O O H U R I J U D P V

" 7 K H W X C P H Q D S S O R U H D G P L W R H R Q I G L I W K R V H S H F L S H H C R E G  
V X V S H Q V L R Q

" 3 D U H Q W V D G L W L R Q V D X G D I Q E N Q R W L E I W H G H L F H U H V L G H Q R V O O H J H  
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" 7 K H F D G H D G F Y L D Q R E I L R H L Q D Q F L D D V W D Q F R L O F H R H O ð R ` P

" 1 T f R ) I W G W H I E T d < 0 0 B A 0 A 1

1 R W I R H S S H D O V W W D F W H D W U K H D V R U K D S S H D G H W K H O D Z V W L F O H  
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' H D Q I 6 W X G H Z Q W K I K R X R I W K S H Y L M R D U I G D U L 7 Q J H D Q I 6 W X G H Z Q W K H Q  
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3 U R J U D C H E V Q P A R U • K R X ü W K H H V L U R R Q W O C H H D S S O p

6 W X G H Q W V

% R W K U D G L D V Q L R Q D I C R P P X W F W U X G H Q W F D L N I K R R I D I Q R W K V W U X G Z H L Q E M D  
K H D E \ W K H R Q R & R X Q I F Q E U V I R Q Q E Q F D P S X V Q O H R W W K H U L Z Q L W W U X F W H G

\* R R G R F L D W D Q G L Q J

\$ V W X C L F Q R W V L G W R H L Q R R G R F I V D W D Q Z I L W K & H R O O I H W K H K D H H H Q R  
S H Q G E Q Q R & R X Q F I L O H S R I Q R P S O H E W V R K Q H D G O I Q Q I G X F D W L I R Q Q H M L R I Q Q  
E \ + R Q R & R X Q D I Q Q Q R W H U Y L V Q H R E S U R E D W H R Q U U D G X D W X L R S Q H Q R U R Q  
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, I D V W X C L F Q R W Q R R G R F I V D W D Q O K R J Z G E D E S O D F H Q W K V W X G N Q U W Q V F Q E S W  
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D G Y L V R Q E K D I R U H D F E K U D Q F I K L F U L D O R U Q V K H I L R H W K H D Q I 6 W X G H D Q W V  
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I L O H

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2 X W F R R H V O D W R I R Q U H S R U W Q I R & R X Q Y L D O D I W I D R G G W U H E W H I G H R Q R U V W H P  
R U W K H I L R H W K H D Q I 6 W X G H D Q W V L Y D Q C H U H R Q V L G H W K I G H C F W U Q I R U P D W L R Q  
S U R W H E F \ W H E S 7 K H U H I R K S H U V Z R Q Q U H S R D Y W L R O I D V I Q R Q W Q R I Z V R X W F R P H  
E X F D Q H D V V X W K Q W & H R O O W D H H D M F U K H S R U W L R X Q M R O O R Z W D E O L W X G H I G Q W  
M X G I S F I R D F O I G X U H V

- X U L V G L F W W I K R Q O O H J H

6 W X G H D Q W I S H F W R D L Q V D I M O Q L P I K V L J K W D Q R I S H G V R F R I Q Q K Q W H S L Q J  
Z L W K U H G S I U L Q F L 7 S K O H I R O O U H I N H W Y K H H J K W X V S H I Q I S I R O W H [ F O X D O H Q \  
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R U X Q D F F H S W D E O H

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& K D L U S H \ G L E D Q Q H F X W W H U  
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