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90 100 110 120

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1 10 20 30 40

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P F Y V P T W V A K K A R P V S L R Q L M F F G R R L L S S A N F V R T E L P
E K I K H F A S F P Q T G V S L R Q L M V M I G G R R L L S S A N F V R T E L P
K V R L S S L Y S G S K V V R L S L S L Y S G S K V R L S S L Y S G R K T E L
V I K Y I N R R Y S Q Y T P L S I A R F A E F G R T A V R S V A F L R S N E L P
D I Y R C S F K H Q I G V N L K L M M D F F G K N L L A A Q F L R S R E L P
V T T Y I N R Y A E K S I R P V L S L K E L M R F V Q P L L E S A K Y T R S E L P
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L D E Y V E R Q I R P I S L R Q L L E F F G R R L L S S A N F V R T E L P
L V D D I Y R G S F R N Q T G V I S L R Q L M V F F G R S L L T S S A N F V R T E L P
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I A R K L E H Y S Q F Q P S S L T I Q Q Y L D F G Q T M K S S F L F L K N E L P
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A T E K F A K Y A S F S P T I S L R K T L S A F G K S P S S T N F L R S E L P
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D I A T L A R Q T Q H P L T S L A D L V K H G R P P L S S A N F T L S L L P
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I T A K I D E L A Q L P Q T G V S L Q Y L L E F F G Q K L I Q S A R F L H G E M P
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E I G Y L T S K P T H E L S L R A D L L K Y G N Q P L T S V N F T R S L L P
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V R L A H R I R Q A L L R N L L P Y V V V S K N Q N E P N I V R K K I Y N N Y Q H S F S T L L P 80
V R L A H R I R Q A L L R N L L P Y V V V S K N Q N E P N I V R K K I Y N N Y Q H S F S T L L P 80
T R L A H R I R Q A L L R N L L P Y V V V S K N Q N E P N I V R K K I Y N N Y Q H S F S T L L P 80
V R L A H R I R Q A L L R N L L P Y V V V S K N Q N E P N I V R K K I Y N N Y Q H S F S T L L P 80
S A L A N T M K E I A E L L P P E N L L R M Q P S S V G L V N Q W Y E R S S F F E E I T R F F 50
V R L A H R I M T K E I E R S L L P V K L L L G D M Q P S V G R R V H D N W Y A T S F F E E L L N D F F 60
V R L A H R I V K A L L R N L L P F G L S S K A P Y I L K V R D W Y V E S S F F E I H G F F 70
V R L A H R I M K E I H H L L P F N I L G M E M P S Y I Q T S L N G W Y S Q S F S E L I E F F 80
T R L A H R I R D L L E Q L L P Y V V V E N P S H I V K E V Y E L Y Q R A F D T F R K V 50
T R Y A H R R V K D L D Q T L L P Y A V V G C Q N P P S V R Q V K E L W Y I H A M E E R L J A F 60
T R L A H R R L R D L Q L L P Y A V V V T N P H I F I N D V Y N L Y Y K A F D T F R K I 70
S R I A H R R L R D M Q Q L L P Y V V V T N P H I F I N D V Y N L Y Y K A F D T F R K I 80
V R L A H R R V A E L R S L L P Y F G L S T K P Q V I R T I Y R D W Y V E S F F E D I R E M 50
V R L A H R R I R D F Q K L L P F I V G C N P H I Q S V Y S L Y L R Q A F D S L R Q W 60
V R L A H R I R E F Q K L L P F I V G T N P H I Q Q C Y D L Y W Q A F E N K L R N I 70
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V R L A N T M R E V N L L L P D D N L L N M R P S V G L V Q S W Y M Q S F F E L L E Y 60
V R I A H R R I R D L Q A L L P Y V V V V N M Q E G V A R V Y E L Y Y W T A F E K F R R V 70
T R L A H R R L R D M Q R L L P Y V V V V T N P H I H A K H V Y E L Y Y H A F F E L L R K V 80
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V R Y A H R I K N L L L P H G L S D M P S V K Q V R E W Y V N S A F E E L V A F F 60
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V R Y A H R I R N L E D L L P H G L N R M P S V Q K H R E W Y L Q S I J E E L L T F F 60
C R Y A H R I K N L L L P H H G L S D M P S V K H V R N W Y I H S I J E E L L L F F 70
V R I A H R I K S I R N L L P F I G C N P S T I L Q V H E L Y I R A F S K L L V E F F 80
I R L A H R I V J E L Q S L L P Y G L S E M R S V K R Q C E E L Y E N S A F A D I L M Y 50
V R L A H R I R D M Q L L P Y A V V T N E H V A Q I Y S E L Y W S A F E K L R N Y 60
T R L A H R I R D I Q T L L P Y V V V A N P H L A H I Y E S Y L R A F E R F R K V 70
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T R L A H R I R D L Q Q L L P F S V M R N E H M S Q V Y E L Y Y Q A F N Q F R K F 70
I R L A H R I R D I Q Q L L P Y A V V S N P H I S A V Y E L Y Y D A F D R L R K L 80
T R I A H R I R N I N L L P Y T A V T N Q H I S A Q V Y A L Y H A A F E R F R K V 50
I R L A H R V Q E L S E L L P D G L N E N P S V K Q G H N S A R R Y V A A D D G 60
V R L A H R I A G F R Q L L P F I V G C N P T I L K Q V H E L Y I R A F H L S E F 70
R R L A H R L M D L Q L L P Y I V V A N P H I K K V Y N Q Y H V S F E T L R R V 80
V R I A H R I R D L Q A L L P Y V V V T N Q E G I A R V Y E L Y W E A F E R H V L A 50
I R L A R L Q A L L R S L L P Y I V V S N P H L R Q V Y G N Y R H S L R S L L P L 60
V R L A H R I R D L Q T L L P F G V V N N H L A Q V Y E S Y R S F N V L R R W 70
V R I A H R I K A F R G L L P F I I G C N P T I L R L H E L Y I R A F H K L S E F 80
V R I A H R I K G F R G L L P F I I G C N P T I L Q V H E L Y I R A Y H M L V D Y 50
V R I A H R I R D L Q A L L P Y V V V T N Q E G V E K V Y K L Y W T A F E K F R T Y 60
V R I A H R L R D L Q A L L P Y V V V T N Q E G V A K V Y E L Y W S A F E K F R N Y 70
M K E I S L L L P D D N L L K M P S I Q L V Q S W Y V Q S L Q E I N D D F 80
I R L A H R V Q E E L R T L L P D R L L N N P S L K K S M N S R R Y F A A L D D G 50
V R L A H R I R D F Q T L L P F F V G T N P H I E Y V Y K L Y W A F E S L R A C 60
T R L A H R I R N M Q T L L P Y S A V T N Q H L S H A Y E M Y Y A F E R L R 70
V R I A H R I R N M Q S L L P Y V V V T Q D Q V A K V Y E L Y W K A F D K F R T Y 80
A R L A S R I E A L R N L L P F I I V S N P H L S K I Y N N Y H S L S T L L P Y 50
T R L A H R L R D M Q K L L P Y V V V T N P H L S T V Y E L Y Y K A F E T L R R V 60
I R I A R R L K D F Q Q L L P Y I I L S N P S I H D T Y E L Y Y R A F T S L T K Y 70
V R I A H R I R D M Q A L L P Y V V V T N Q E G V A K V Y E L Y W T A F D K F R R F 80
I R L A H R V Q E I T T L L P P R Q L N P S I L M R G Q A A T R R Y F A T V E D S 50
R R L A M R A R S L E S L L P F I V G M N P F F L Q I Y D S Y Y H S F N A F R K M 60
V R L A N T M R E V N L L P D N L L N R P S V G L V Q S W Y M Q S F L E L L E Y 70
V R L A H R I R D L Q A L L P Y V V V K Q E W A K V Y E A S A Q 80
V R M A N T M V E M S L L P E V L L T T Q S V T N Q I K E W Y D M S F K E L L E F 50
V R I A H R I R D M Q A L L P Y V V V M T Q E G V T N Q I K E L Y W S A F E K F R R Y 60
V R L A N T M K E I A L L P K N I I G T N S V N Q V N D W Y L K S F E E V L E F 70

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P E I H T S Q K D N R E F C K F L R R I L V D T E H H A D P V I P W I S R G L G L E C R
T K D T H I S S L A D D E V K F F T A V A L A R D L V D T R H H A R D T T I P T W I S R G L G L E C R
E K V D V N S N D A T L D D K F C C Q A V L K I R N R R H H S D V V V E T M A Q Q G V L E L K
K E K D P N T P G T M E S H F C C N E L V K I R N R R H H S D V V V E T M A Q Q G V L E L K
P Q E K P R N N Y Y T D N S L V Q T I S E I E V K R R R H H S D P V V V T T L A Q M G V I E Y K
E Q M E P D P P T L T Q F C E R L V H I R N R R R H H A D V V V Q T M A Q Q G V L E L K
P I N K A D A E H Y V A K S F F T E V I V R N I H R Q R H H A P V V V T T M A Q Q G I L E L K
R D Q H K S C E E V T A K N F T T N L V R N I R Q R H H A P V V V E T M A Q Q G I L E L K
P E I V I T P S D E L E F F T Q L L H D V K E R H H S H V I P M L G L G L Q E L K
R E N I C K G S D D E K F F A E M L K E M V Q T S R H S E N I P T L A K G F F L E C K
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P K V R T A A D E R R F F T S M I R S T I K K R H H A T V I F T M A R G V V H E L K
P E I R T L A D D N R R F C C E I L S E N T L K R H H L V V I P R L A M G V L E L K
K E E V K T L E D N D R L C C E I L S E N T L K R H H L V V I P K L A M G V L E L K
K E I N S M E R E E K F F T E L L S S V M K R H H N D V V P M I A R G G I L E L K
E R G V A T M E E E V E F F T A V L A Q L V Q T H H A D T I P T L A R G V L E L K
P P I E T M E Q E R A F F T E M L T R L V D D H H L N V V V E L L G K G C V E S K
P P I N N R E N E K F C C K V L M E S L D V H Q V V I P E L L A K G L Y E C C S
P P E I E T L E E N D E F C C V L K K V L D D H L L I L P H L M M G A L E L K
P H I K T T E D N D R F C C T K I K A A L K E H H L T V I P R L A M G V L E L K
E N K S P E D P Q V L D N F L C Q V L I K V R N R H H N D V V P T M A Q Q G I E Y K
P Q I D T L A E N E A F C C K V I S E S L K E H H L A V I P N L S L G L A L E L K
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P H A Q V E P D M S K F N D Q L Q T I L K R H H S R V V V E T M A E G L I E L R
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H R A A I V I T P E D E V R F T H V L A E L V A T H H T D T I P V L A K G F L E C R
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K K I K T L D D E D R F C C D I I R T M L R A H H P V I P K L A M G I L E C N
P P I Q V R S D E S R Y C A L L R Q L L E D H H K D V V T L L A E G L R E C R
P P I T D F D I E A R Y C Q M L R Q L L E D H H S D V V P M M A Q Q G V L E Y R
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P S S L T N P L E E L K F T E I L T D I V K T H H S N T I P T L A R G G I L E C R
P V V D F A S E Q V Y S H T L R T L L D D H H S N V V T M L A E G F S E C O R
V R E V Q T L D D N E R F C A Q L A Q M L R A H H L T V I P K L T M G M L E C S
P E I T P S E G N D E F C Q L I R R M L T E N H H S V I P D L A G G I L E C R
L D K D P E D H R T L S Q F F T D A L V T I R N R H H N D V V P T M A Q Q G V L E Y K
P A I K T L E D N D K F C K L V S D L L L D H H L T I I P S L V T G G I L E C A
K E I R S L D D D A L C C E T A I G H T L Q A H H L P V I P K L A M G I L E S S
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Q G W P P E L S Q Y N N Q F R E T L D K I K R R H H D S V V T T V A Q G G L E W K
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P M V R T S E D N Q E S Q L L R N Q H L D D Q H H A P M L D S L A T G L R E C K
H Y P P I N T L E E N N E F C R F L A G L L N D H H A T V I P L L S L G L S L S S
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P L I N D H E T E A K Y C S Q L L R R L L D D H H K D V V T L L A E G V R E S R
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Q E W P P E L S A Y N R K F A D T L E T I K R R R H H S V V T T V A Q Q G I N E W K
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R	Y	L	S	S	H	H	L	V	P	E	Q	V	L	T	R	F	L	D	R	M	L	V	S	R	I	G	T	R	L	V	A	E	Q	H	H	L	A	L	H	H	G	W			
E	S	H	D	V	D	I	Q	T	E	N	S	I	Q	Y	F	L	D	R	F	F	M	S	R	I	S	I	R	M	L	I	N	Q	H	H	L	A	L	H	H	G	G				
Q	H	W	K	T	N	M	D	P	T	E	I	Q	Y	F	L	D	R	F	F	M	S	R	I	S	I	R	M	L	I	N	Q	H	H	L	A	L	H	H	G	G					
E	S	H	E	V	D	P	G	T	E	N	S	I	Q	Y	F	L	D	R	F	F	M	S	R	I	S	I	R	M	L	I	N	Q	H	H	L	A	L	H	H	G	G				
A	E	A	G	S	D	A	Y	D	R	N	I	Q	Y	F	L	D	R	F	F	M	S	R	I	S	I	R	M	L	I	A	Q	H	H	L	A	L	H	H	G	G					
L	A	K	K	D	Y	N	L	D	Q	H	R	L	Q	Y	F	L	D	R	F	F	M	S	R	I	M	G	I	R	M	L	I	A	Q	H	H	L	A	L	H	H	G	G			
A	E	L	G	S	T	T	Q	L	P	E	I	H	Q	F	L	N	R	F	F	L	S	R	I	L	G	I	R	M	L	I	G	Q	H	H	L	A	L	H	H	G	K	N			
K	Y	M	S	P	E	I	H	Q	F	L	N	R	F	F	L	S	R	I	L	G	I	R	M	L	I	G	Q	H	H	L	A	L	H	H	G	K	N	N	D						
T	V	V	K	N	H	S	L	D	H	S	L	Q	Y	F	L	D	R	F	F	M	S	R	I	T	S	M	R	L	L	I	T	Q	H	H	L	A	L	H	H	G	G				
G	L	I	S	P	A	E	A	D	M	I	D	L	H	S	F	L	D	G	F	Y	L	S	R	I	S	R	R	V	I	A	E	Q	H	H	L	A	L	H	H	G	G				
Q	A	M	S	A	A	E	A	D	M	I	D	L	H	S	F	L	D	G	F	Y	L	S	R	I	S	R	R	V	I	A	E	Q	H	H	L	A	L	H	H	G	G				
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I A P L L D E Y A K H P P R P L T L S T L L S F F G R P L L N S V I E Y V L S E V L P P
V V E K L K Y Y E R F R P H P I S L K M Y L G F G Q T V E I T S F K F L Q K E L L P P
L I E S F A K S S T P I S L K H M I N F F G E K L I K G A N F L R T E E L P P
R L T P Y M I L Y S G K S H D G G S H L L K S A Q Y L W K E E L P P
D F L K K K P H P V S L R Q L A G F G Q K L I N S A N F V R I E E L P P
D I N T Y S C K R Q T G V S L K T L L D T G R M L Q Q V A C H R E I P P
Y K S L K P R P T P L S T L L S F G S P L T P S A S Y V L E E L P P
M L L H W A E R N A H P V T L S L A H L A N Y G K T L N K S A N F V R N E I P P
T R L I A H Y A R F A P T P L S L A Q M A Q F G K T A S T A A Q F M S D E L P P
R I E E Y A A K S L N L V T L Q Y L L R L G R E R R G L A E V V L Y E L P P
M T R R Q R T L I Q I A T F L K R E L P P
I F H Y S R K P L P Q L S L G Q L Y K Q S E K L S S A R E T I E H L L
L S R L M E E H A E Q P P R P L T L S T L L S L A D P V L T S V R Y V T N E I P P
L M D T I K H Y S G F P A T G V S L R Q M V Q F F G E K P S T A S Q F L S E E L P P
R L T P T T M L Y S G K S P D G S C E R T S F A F L R Q E L P P
L M D T I R H Y A S F P A T G V S L R Q M V Q F F G E K P S R A S Q F L A E E L P P
L A R S A K Y Q I S R L S L A Q L L T F G Q M E N Q S C Q F I Q N E G V
R N L L S A Q F L H K E E L P P
E Q L A A Y S K Y K I N R L S L Q A L L D F F G R K L M Q S C N F I H T C P P
M E T I K H Y S A F P A T G V S L R Q M V Q F F G G E R P S R A S Q F L S E E L P P
L M D T I R H Y A R F P A T G V S L R Q M V Q F F G G E K P S R A S Q F L A E E L P P
V S E L L S R Y N D V T P R P F N L S Q L L S F F G R P V T S V S Y A L A E E L P P
L M D T I R Y A N F P A T G V S L R Q M V Q F F G E K P S T A S Q F L A E E L P P
L L G H Y A S S P T R T V T F D D L Q Q Y G R P P L Q S A E R T R Q E L L
V A R Y A K K E P K K H T I N Q L I Q F G K K L I Q S A R F V H Q E L P P
R V L E K Y V E Q E V K R V T L R Q L S V F G R K V L R S A N Y I R T E L S

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UniRef90_S7RWJ3 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYWSAFAFEKFFRRRY
UniRef90_K5XXR7 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYWSAFAFEKFFRRRY
UniRef90_UPI0004417DC9 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYWSAFAFEKFFRRRY
UniRef90_E5SBS9 VRLANMLKKEVEELLPSQLMETTSTPSKLVVQWYQEEASFQKQELLLQY
UniRef90_E4WQJ0 TRLANMLKEMNSRLPKENLLRTTSPSVQQLVKKKMSYEEQLQEREPDFF
UniRef90_G1TKK4 VRLAANMLKKEVEELLPSQLMETTSTPSKLVVQWYQEEASFQKQELLLQY
UniRef90_T1EFD5 VRFSNIMREFYLLPPQLLETTSSVRRRTLQKSGWYEQSSFFFEELMQM
UniRef90_D8TIN2 IRLAHRRLMDLNQHLPPYKLVSEETQEHVRRVKKKGYAAEESFADEFRRRY
UniRef90_UPI000455ED67 VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_F4NWT5 VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_UPI00022350DD IRLSSLEETTLGLPRNRSGGPPGLVPHHPGYVQSLDLTSEFF
UniRef90_UPI0001CBB202 VRLAHRRIVAFRGQLPPYVVVTNSPHTIKELLYYNAFFDMFRKVV
UniRef90_N4WOM0 TRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_S2IWB6 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_H6BSX6 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_G7E3G3 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_G4V9U6 VRLGNMLKKEVEELLPSQLMETTSTPSKLVVQWYQEEASFQKQELLLQY
UniRef90_R7YMI8 TRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_M5G7C1 VRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_F9FWM1 IRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_D5GER0 VRLSRRIRRALDNLPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_D7FPX6 IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_R8BW16 IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_SOEBU9 VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_I0Z077 KRLARRRLMDLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_D2W0E3 KRLGRRLKQGLDNLPPYGLVGNLPPSVLRLVHHEELLYYNAFFDMFRKVV
UniRef90_UPI00042C63D0 VRLAHRRLKQGLDNLPPYGLVGNLPPSVLRLVHHEELLYYNAFFDMFRKVV
UniRef90_UPI0004560C10 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_F4RVP2 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_X8JHX6 IRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_M5E6Y3 VRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_E9DS73 DEILAHRRLKQGLDNLPPYGLVGNLPPSVLRLVHHEELLYYNAFFDMFRKVV
UniRef90_A8J1W3 IRLAHRRLKQGLDNLPPYGLVGNLPPSVLRLVHHEELLYYNAFFDMFRKVV
UniRef90_A6R2Q7 IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_UPI000359F61B VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_C4XVV9 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_G7DZJ4 HRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_A8PVB4 VRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_H1W1L9 IRLAHRRLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_E9CED2 TRLAHRRLWSLQHLPPYLVGRGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_Q4SMY8 VRLSANTMKEVNVNLLPDKLVLGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_W1QEG8 VRLSANTMKEVNVNLLPDKLVLGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_F7VPX1 IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_UPI0004407D1C IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_UPI0001D5660E VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_C5MC72 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_U7PLK4 TRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_I1CM47 IRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_W2SAL7 VRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_G8YID9 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_D8PW65 RRLAATRVRTIEGLPPYLVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_UPI000383B6DF VRLAANTMREVNLLLELDLNNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_S2J2J IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_UPI0003EAB5AF IRLAHRRLVLELLESLPPYELVSKMSSISLSTVKDWTQSSFFQDLLEFF
UniRef90_L8X0M5 RRLVQRVRAVLDLSPFFIIVGMMNPFIMRTHKLYHSSFFERLDTTF
UniRef90_M2RIP7 RRLALRRARSLEALPPFFIIVGMMNPFIMRTHKLYHSSFFERLDTTF
UniRef90_UPI0004417011 RRLASRVQSLLELLPPFFIIVGMMNPFIMRTHKLYHSSFFERLDTTF
UniRef90_S9X4M2 F A H L P F Y R Y I Q S S L M E L V I E F
UniRef90_E1ZBW9 KRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_U1GH00 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_J4H3A0 RRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_S7QEK7 RRLAQRVMSLQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_U3Q423 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_K5VW46 RMLGLRVRAFEELPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_A8PN19 VRLANLRSKEDQELQLQNLQKLSSTTDVCKLFLYQSFEDLPLF
UniRef90_G0SVG6 TRLSARRRLRDQLSELPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_E9H8D3 VRLAHRRLHEFRSLLPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_A5E117 IRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_W7TC29 IRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_G4U344 RRLVQRVRSMEALPPYIIVGMMNPFILARRILANHRKSKFAKAIATY
UniRef90_C4R4B6 VRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_A0A024JB53 VRLAHRRLHELENLPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_F4P6R3 IRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_R1FC28 VRLARRRLVGGFRQALPPYIIVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_H8VWH7 IYNARRLREFRSLPPYLVVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_B8P4M5 RRLAARRARSLEALPPYIIVGMMNPFILARRILANHRKSKFAKAIATY
UniRef90_K1X8M6 IRYAQSFEELTQLPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_H3AKR9 VRLAHRRLKGFRTNLPFFIIVGMMNPFILARRILANHRKSKFAKAIATY
UniRef90_M7BEE1 VRLANLREIDLLPNQLLSTPPISTVQLVKS
UniRef90_J3PHH0 IRYAQSFEELTQLPPFLVGVNPFILARRILANHRKSKFAKAIATY
UniRef90_F2TXM9 IRLAHRRLKEMRTLPPDDFLDEQHIRRVYNNWYLESFRDILHEAY
UniRef90_M0VNX0 IRLARRALDLLESLPPGLSALKPAIILKVRDWTLESFRDILHEAY
UniRef90_A9UQV4 IRLAHRRLKEMRTLPPDDFLDEQHIRRVYNNWYLESFRDILHEAY
UniRef90_L8G7C6 IRYAQSFEELTQLPPGLQNNNSPKNKGLTTRRYFAVDDDS
UniRef90_K3VH56 IRYAQSFEELTQLPPGLQNNNSPKNKGLTTRRYFAVDDDS
UniRef90_K9HUZ2 RRLAATRVRALETLPPYLVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_W3WVY4 IRYAQSFEELTQLPPYLVGNPPISTGAKAKANSARYFAFDVDDSF
UniRef90_M7WCR3 AGLARRVSSQHLSSLPPFLPATNPSLAKVHNLYSSAFTNLTLV
UniRef90_C0S8E4 TRLAHRRLRDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_M2Y3I9 VRLAHRRLDMLQALPYAVVVSNTQEGVHHDVVEELLYYNAFFDMFRKVV
UniRef90_F4P5Y5 VRLAHRRLSFRQALPPYVVGNPPISTGAKAKANSARYFAFDVDDSF

	90	100	110	120																																							
UniRef90_S3C043	K	E	I	K	T	L	D	N	D	T	F	C	K	V	L	G	H	T	L	Q	A	H	L	P	V	I	P	K	L	A	M	G	L	L	E	S	S						
UniRef90_S7RWJ3	P	E	I	K	T	L	S	D	N	E	A	F	C	A	F	L	R	N	D	L	L	E	E	H	A	V	I	P	S	L	L	S	L	L	S	L	S	S					
UniRef90_K5XXR7	P	P	E	I	T	T	L	S	E	N	D	A	F	F	L	V	L	Q	D	L	L	V	N	G	E	H	A	T	V	I	P	N	L	S	L	L	S	S	S				
UniRef90_UPI0004417DC9	P	E	V	R	S	L	S	E	N	D	A	F	C	C	F	L	R	N	D	L	L	V	N	G	E	H	R	A	V	I	P	L	L	S	L	L	S	S	S				
UniRef90_E5SBS9	E	N	A	N	A	D	E	S	T	L	R	D	F	S	R	Q	L	S	R	V	L	K	R	R	H	N	T	V	V	E	T	M	A	E	G	L	M	E	M	K			
UniRef90_E4WQJ0	E	K	A	D	V	E	N	D	A	K	A	V	R	Q	D	F	L	T	K	S	H	G	I	V	S	R	H	R	N	D	V	Q	V	A	Y	S	L	M	E	Y	K		
UniRef90_G1TKK4	K	D	K	S	I	N	E	D	A	K	A	V	Y	D	F	T	D	T	S	L	I	R	I	R	S	R	H	N	D	V	T	P	T	M	A	Q	G	V	I	L	E	Y	Q
UniRef90_T1EFD5	K	R	L	P	L	N	E	D	E	K	S	I	D	K	I	N	D	G	L	D	F	L	R	R	R	H	T	T	V	V	E	T	M	A	E	G	V	I	L	E	L	K	
UniRef90_D8TIN2	P	A	I	K	D	H	L	D	V	L	R	F	T	A	M	L	K	K	A	F	R	N	N	N	V	V	P	A	S	J	A	K	G	V	I	L	E	Y	K				
UniRef90_UPI000455ED67	P	A	P	V	M	N	L	E	D	N	Q	K	F	C	E	F	L	E	N	I	L	N	E	H	A	P	V	I	P	S	L	L	S	L	L	S	L	S	L	K			
UniRef90_F4NWT5	P	T	P	P	Q	E	V	K	A	Y	N	L	K	F	S	E	A	L	E	K	I	K	R	R	H	D	P	T	T	T	V	A	Q	G	V	I	L	E	Y	K			
UniRef90_UPI00022350DD	L	D	K	D	P	E	D	H	H	T	L	S	Q	F	T	E	A	L	T	I	R	N	R	H	N	D	V	V	P	T	M	A	Q	G	V	I	L	E	Y	K			
UniRef90_UPI0001CBB202	P	A	G	S	L	R	D	F	E	D	E	Q	K	Y	S	Q	M	V	L	R	G	L	D	D	H	K	D	V	V	T	M	L	A	E	G	V	F	K	E	S	R		
UniRef90_N4W0M0	K	E	I	K	T	L	E	D	N	E	E	F	C	K	S	I	A	Q	M	L	K	A	H	L	T	V	I	P	K	L	S	M	G	L	L	E	S	R					
UniRef90_S2IWB6	A	L	P	D	A	P	G	D	V	E	F	I	E	K	L	K	E	D	F	V	R	R	H	S	D	N	I	P	T	T	V	A	R	G	F	L	E	S	K				
UniRef90_H6BSX6	K	E	W	P	V	L	A	D	Y	N	R	K	F	A	R	M	L	E	I	K	R	H	H	D	P	V	V	P	T	T	V	A	R	Q	G	I	N	E	W	K			
UniRef90_G7E3G3	P	V	I	R	T	F	E	D	N	L	Q	F	C	E	F	M	K	G	L	L	E	E	H	L	V	I	I	P	L	L	A	R	A	L	L	Q	E	D	L	K			
UniRef90_G4V9U6	G	E	C	S	T	K	S	P	S	T	S	R	F	T	D	D	V	D	L	L	L	Q	K	H	S	R	V	I	E	V	M	A	S	G	V	I	L	E	Q				
UniRef90_R7YMI8	I	S	E	I	K	T	V	D	N	D	R	F	C	K	V	I	T	E	T	L	L	E	H	S	V	I	P	R	L	A	M	G	V	L	E	I	Q						
UniRef90_M5G7C1	P	S	I	H	D	L	H	D	N	E	R	F	C	E	F	L	Q	Q	I	L	D	E	H	A	A	V	I	P	M	L	S	L	G	F	L	E	S	K					
UniRef90_F9FWM1	S	D	W	P	A	D	L	H	L	Y	N	Q	R	F	A	Q	T	L	H	I	K	R	R	H	D	G	V	V	T	T	M	A	Q	G	V	I	L	E	Y	K			
UniRef90_D5GER0	P	A	G	S	L	T	N	L	T	E	E	S	K	F	T	E	L	L	T	E	I	V	K	T	H	S	N	T	I	P	L	L	A	K	G	F	L	E	C	R			
UniRef90_D7FPX6	P	R	P	V	T	V	D	E	E	V	I	R	F	A	E	L	L	K	G	I	Y	Q	R	H	A	P	V	L	L	T	M	A	R	G	V	W	E	L	R				
UniRef90_R8BW16	G	D	W	P	P	E	L	H	L	Y	N	Q	R	F	S	Q	T	L	H	K	I	K	R	H	D	G	V	V	T	T	M	A	Q	G	V	I	L	E	Y	K			
UniRef90_S0EBU9	W	H	R	P	I	S	T	A	A	D	E	N	D	K	L	T	Q	V	L	Q	E	L	V	A	T	H	H	D	V	I	P	L	L	A	K	G	F	L	E	C	R		
UniRef90_I0Z077	P	Q	R	V	Q	T	A	A	D	E	N	D	K	L	T	Q	V	L	Q	E	L	V	D	E	H	A	P	M	L	D	A	L	A	A	G	F	R	E	L	C	R		
UniRef90_D2W0E3	Y	S	K	K	P	K	T	F	E	E	E	Q	F	T	K	M	L	E	G	V	Y	T	D	H	A	P	T	L	S	V	L	A	K	G	V	L	R	E	S	K			
UniRef90_UPI00042C63D0	P	P	I	K	D	F	E	A	D	D	A	Q	Y	F	A	V	L	E	R	Q	L	D	D	H	K	D	V	V	T	L	L	A	E	G	V	L	R	E	S	R			
UniRef90_UPI0004560C10	G	P	I	Q	T	Q	E	D	N	V	K	F	T	A	V	L	E	D	L	V	S	A	H	A	Q	N	I	P	T	L	L	A	R	G	F	Q	E	S	S	S			
UniRef90_F4RVP2	P	T	P	I	T	D	Q	Q	D	N	Q	S	W	E	F	L	E	D	L	L	N	Q	H	R	I	V	I	P	Q	L	A	L	G	I	A	E	S	S	S				
UniRef90_X8JHX6	P	T	W	T	P	E	L	L	E	L	N	S	R	F	I	K	V	L	E	R	V	R	R	H	H	D	P	T	T	V	R	V	A	Y	G	V	I	R	E	F	L		
UniRef90_M5E6Y3	K	P	I	E	T	L	D	D	N	D	R	F	V	E	E	L	Q	K	L	V	N	D	H	S	E	V	V	P	T	L	S	R	G	F	L	E	C	G	G				
UniRef90_E9DS73	K	E	I	K	T	L	E	D	N	D	R	F	L	C	D	I	L	S	H	N	A	R	S	H	L	T	V	I	P	K	L	A	M	G	V	L	E	Y	K				
UniRef90_A8J1W3	P	A	I	K	D	G	V	D	C	V	K	F	T	A	M	L	I	S	N	A	F	R	R	H	N	N	V	V	P	A	I	A	K	G	V	L	E	V	Y	K			
UniRef90_A6R2Q7	Q	D	W	P	P	E	L	N	E	Y	N	N	R	F	S	K	T	L	H	H	I	K	R	R	H	D	G	V	V	T	T	V	A	Q	G	V	L	E	Y	K			
UniRef90_UPI000359F61B	G	P	I	R	D	L	S	E	N	D	E	F	C	R	K	A	L	S	T	L	L	D	D	H	K	D	V	V	T	Q	L	A	K	G	F	L	E	C	R				
UniRef90_C4XVV9	P	Q	V	T	T	L	S	E	N	D	E	F	C	R	K	A	L	S	T	L	L	D	D	H	K	D	V	V	S	H	L	M	M	G	A	L	E	S	K				
UniRef90_G7DZJ4	P	R	I	S	S	Y	E	D	F	E	K	F	T	S	A	L	N	D	T	V	E	L	H	S	S	N	I	P	V	L	A	R	G	F	Q	E	C	K	C	K			
UniRef90_A8PVB4	S	P	V	H	T	L	E	D	N	D	R	F	A	Q	K	L	R	L	L	V	A	T	H	A	D	L	V	P	T	L	A	R	G	F	M	E	C	C	K				
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UniRef90_E9CED2	P	A	I	K	S	L	A	D	E	A	R	F	V	E	L	V	K	E	L	L	D	S	H	N	H	V	V	V	S	L	A	S	A	A	A	E	I	S	S				
UniRef90_Q4SMY8	P	G	A	P	D	R	D	P	Q	P	P	Q	R	R																													
UniRef90_W1QEG8	G	R	I	E	L	D	E	N	D	K	F	C	D	F	L	R	K	V	L	D	D	H	L	L	V	L	P	H	L	M	M	G	A	L	E	V	S	S					
UniRef90_F7VPX1	G	D	W	P	P	D	L	H	L	Y	N	Q	K	F	A	Q	T	L	H	K	I	K	R	R	H	D	S	V	V	T	T	M	A	Q	G	V	L	E	Y	K			
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UniRef90_UPI0001D5660E	P	K	I	H	T	I	E	D	N	N	K	F	C	E	M	M	S	M	L	D	D	H	I	F	N	L	S	H	L	M	M	G	A	L	E	V	A	A	A				
UniRef90_C5MC72	K	P	E	I	K	T	L	D	D	N	D	V	L	C	D	E	L	I	R	G	D	L	E	D	G	Q	L	V	L	P	R	L	A	M	G	V	L	E	S	T			
UniRef90_U7PLK4	P	I	Q	K	E	S	D	N	M	K	F	C	E	F	L	L	E	R	V	R	R	H	H	D	P	V	V	T	T	V	A	Q	G	V	L	E	Y	K	K				
UniRef90_I1CM47	Q	V	W	P	P	E	L	A	D	Y	N	K	K	F	S	R	C	L	E	Q	I	K	R	R	H	D	P	V	V	T	T	V	A	Q	G	V	L	E	Y	K			
UniRef90_W2SAL7	P	P	I	T	T	L	Q	D	N	D	K	F	C	D	V	L	S	R	L	L	D	D	H	F	N	L	S	H	Q	M	M	G	A	L	E	V	S	S					
UniRef90_G8YID9	P	P	V	R	T	L	E	N	A	V	F	A	R	H	L	E	L	V	E	R	H	A	N	D	I	L	P	A	M	A	K	G	F	Q	E	S	S	S	S				
UniRef90_D8PW65	E	N	Q	S	P	E	D	P	Q	V	L	D	N	F	P	Q	V	L	I	K	V	R	N	K	H	N	D	V	A	P	T	M	A	Q	G	V	I	E	Y	K			
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UniRef90_UPI0003EAB5AF	L	D	K	S	P	E	D	Q	S	L	S	N	F	T	D	A	L	V	K	I	R	N	R	H	N	D	V	V	P	T	M	A	Q	G	V	L	E	Y	K				
UniRef90_L8X0M5	P	E	V	K	D	L	E	N	D	E	F	S	R	E	L	E	S	L	V	E	M	H	A	N	D	I	P	T	T	A	K	G	F	Q	E	C	S	S	S				
UniRef90_M2RIP7	P	P	V	R	T	L	E	D	N	A	V	F	S	T	K	L	D	S	V	V	Q	S	H	A	H	D	I	P	T	L	A	K	G	F	Q</								

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UniRef90_F4P5Y5

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UniRef90_S7RWJ3	S R S G D
UniRef90_K5XXR7	F R
UniRef90_UPI0004417DC9	Y A
UniRef90_E5SBS9	
UniRef90_E4WQJ0	S
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UniRef90_UPI00022350DD	S T N P
UniRef90_UPI0001CBB202	
UniRef90_N4WOM0	Y H S P
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UniRef90_G7E3G3	Y A S G S
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UniRef90_F9FWM1	S H
UniRef90_D5GER0	
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UniRef90_E1ZBW9	R P
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UniRef90_J4H3A0	L E E N D
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UniRef90_J3Q423	F Q
UniRef90_K5VW46	L Q Q P
UniRef90_A8PN19	L L P
UniRef90_G0SVG6	F R
UniRef90_E9H8D3	K P
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S R F A R A I M E L S D L P L G L S N T A V A V Q Q A I G V Y R Q E L H W I N T
I R I A H R L R D M Q T I P F V A M S N E Q L D S I Y Q F Y W R T F E T L R R M
I R F A R A I V E L S E L P I G L N E T K A V Q M A I R N Y T D H L E S V I R A M
S R Y A R A L M E D L P Y V V V I N P H L S L V Y E L Y Y K S F E S F R R V
V R L S Q R A V E L M N L P H G L S D V P G V Q Q V V N C Y A R Y A W E L F C A
I R L A H R V Q E L E N L P D G L S D M P S V R K V Q D W Y A Q S F E E I T T
I R L A H R V Q E L E N L P D G L S D M P S V R K V Q D W Y A Q S F E E I T T

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 S A V R Q E K G A D E E T H R F L D R F Y L D R I G I R V L I G Q H I A L S I A D N
 K H I Q M F S L S F Y F Q P D F V G I I C T R L S P K K I I E S R R V I A E E H H I S L T E T
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 I R L A H R V K E L N Q L P D D G L N E M P S I Q K V A N W Y A Q S F F E E I T Q L L
 V R M A K R A R Q L S L A P Y G L S Q M P S I L E L K K Y Y Q L S F H D F R S A
 T R L A H R I R D M Q Q L P Y V V V T N P H I S E V Y D L Y Y T A F D T F R K V
 V F N A R G I V G F R R K L P F I A V L N P S I C E S Y N I Y L K T M S D L L K G F
 I R F A H Q V S R F R R L P F I L E V H D L Y I R S F H N L N K F
 M Y T C R R L V A I Q R L P Y I A V L N P N I E Q T N R L Y L R T L E S L L S L
 P L F T L F S I S A V R L R Y L K T L Q D L L E F F
 V R L A H R V K E L D Q L P H N L S A M P S I N R V K E W Y A Q S F F E E L I S F F
 I R L A R R I V D L E N L P D E L P D A P S I V K L R N K L L A S F F E E L I S F F
 I R L A H R A K E L D E L P H N L S D M P S I K K V K N Q W C Q S F F E E L I N F
 K D V A I Q P E P A R I T H P L N K M Q S Q D K H Y Y T S V D A D D
 K D V A I Q P E P A R I T H P L N K M Q S Q D K H Y Y T S V D A D D
 V R L A H R I R E L D E L P H N L R D M P S I K K V K N W Y A Q S F F E E L I E F F
 I R L A H R V K D L T E L P Q G L S E M P S I L R V K E W Y A Q S F F E E L V N F F
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 K R Y F A A S L P E
 K R Y F A A S L P E
 M E G
 M E G
 I R L A K K V K D L E Y A P Q G L N E S P S T I K V K N W Y A Q S F Q E L T E L
 I R L A K K V K D L E Y A P Q G L N E S P S T I K V K N W Y A Q S F Q E L T E L
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 K K Y Y L S C P S N
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 R R Y Y A N T S S V
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