

CREDO

We believe St. Stephen Lutheran School exists as an extension of the home and church in response to God's command to educate His children.

We believe the uniqueness of our school lies in the fact that Christian education embraces all aspects of a child's development and that effective and optimum Christian growth occurs through cooperation and mutual values between home, church, and school.

We believe the entire school experience provides opportunities for Christ-centered growth and living through servants dedicated to the total growth of Christ's children into responsible Christian stewards.

MISSION STATEMENT

The mission and ministry of St. Stephen Evangelical Lutheran Church and School is to bring Christ to all people and to help them grow in their Christian faith, life and service.

PREFACE

This handbook is compiled with the purpose of providing the parents with a useful source of information on matters pertaining to the over-all program of St. Stephen Lutheran School.

Parents are urged to familiarize themselves with the contents of this book and to keep it available throughout the school year. This information can also be used to acquaint others with our school. Additional copies may be obtained at the St. Stephen office.

Christian Education - The best gift a parent can give



ST. STEPHEN LUTHERAN SCHOOL
505 N. Palmatory Street
Horicon, Wisconsin
(920)485-6687 FAX (920)485-2545
www.ststephen-lcms.org

PASTORS

| | |
|--|-------------------|
| Rev. Daniel J. Seehafer Administrative Pastor | 485-6687 Ext. 305 |
| Rev. Jonathan D. Szczesny Associate Pastor | 485-6687 Ext. 306 |

ADMINISTRATOR

| | |
|---------------|-------------------|
| Mr. Joel Bahr | 485-6687 Ext. 304 |
|---------------|-------------------|

TEACHING STAFF

| | | |
|-----------------------|----------------------------------|-------------------|
| Mr. Richard Holz | 7 th /8 th | 485-6687 Ext.315 |
| Mrs. Rachelle Leicht | 5 th /6 th | 485-6687 Ext. 318 |
| Mr. Aaron Loveless | 4 th | 485-6687 Ext. 319 |
| Mrs. Beth Miskimen | 3 rd | 485-6687 Ext. 320 |
| Mrs. Amy Rupnow | 2 nd | 485-6687 Ext. 321 |
| Mrs. Janelle Wenzel | 1 st | 485-6687 Ext. 322 |
| Ms. Stacey Meinders | Kindergarten | 485-6687 Ext. 323 |
| Mrs. Lisa Janus | PreKindergarten | 485-6687 Ext. 316 |
| Miss Christy Hedstrom | PreK Aid | 485-6687 Ext. 316 |

BOARD OF EDUCATON

| | |
|--------------------------------|--------------|
| Mrs. Ashley Bobholz | 920-948-0609 |
| Mrs. Jennifer Franz (chairman) | 920-210-5583 |
| Mr. Mark Gregor | 920-266-9575 |
| Mrs. Marilu Marquardt | 608-837-4755 |
| Mrs. Lori Marschke | 920-485-2484 |
| Mrs. Dawn Wippermann | 920-410-5466 |

ST. STEPHEN OFFICE

| | |
|--------------------|----------|
| Mrs. Lori Marschke | 485-6687 |
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SCHOOL LUNCH PROGRAM

| | |
|---------------------|-------------------|
| Mrs. Michelle Gough | 485-6687 Ext. 312 |
|---------------------|-------------------|

CUSTODIAL STAFF

| | |
|---------------------|-------------------|
| Mrs. Michelle Gough | 485-6687 Ext. 312 |
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R E M I F W I Y H V #

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41 Whdfk#kh#grfwlq#r#kh#Dxwkhudq#F kxufk#P lwrxu#V|qrg#

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61 G hp rg#w#d#w#kh#x#l#w#r#i#kh#s#lul#w#kurxjk#J rg#s#d#d#l#q#j#q#w#u#d#f#w#l#r#q#b#q#g#h#u#y#l#f#h#r#r#w#k#h#w#
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;# G hp rg#w#d#w#kh#J rg#j#l#y#q#e#l#d#w#l#w#r#i#h#d#f#k#h#v#b#q#g#w#x#g#h#q#w#e|#w#u#y#l#q#j#i#r#u#h#{#f#h#o#q#f#h#z#k#l#d#
d#w#d#l#q#l#q#j#n#l#w#|#s#s#s#s#s#s#d#w#r#r#f#d#g#h#p l#f#d#s#d#e#l#w#l#w#

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d#f#k#l#y#h#w#k#h#l#w#x#e#s#r#w#q#w#d#d#w#y#d#o#x#g#|#f#f#h#s#w#g#|#b#q#g#h#v#s#h#f#w#g#p h#p#e#h#w#r#i#kh#v#f#k#r#r#q#
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441 Uhfrjql#h#kh#e#r#g|#l#w#p#d#y#h#o#x#v#j#l#w#r#i#J rg#b#q#g#d#f#w#y#h#|#s#x#z#h#j#r#r#g#e#k|#v#l#f#d#b#q#g#
v#s#l#w#d#d#k#h#o#k#i#r#u#h#u#y#l#f#h#r#J rg#b#q#g#e#h#q#h#l#w#r#p#d#q#

45# X v#h#F#u#h#q#w#p h#w#k#r#g#w#b#q#g#d#n#d#l#q#j#p d#w#h#u#d#w#|#b#q#g#f#r#q#w#l#q#h#w#r#w#x#g#|#b#q#g#q#w#j#u#w#h#z######
f#x#u#l#f#x#o#u#f#r#q#f#h#s#w#
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K R P H Ø F K R R O # J H O D W I R O V K L S #

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W r # f f r p s d k # k h # r e n f w y h # r i # w # w n s k h q # Ø x w k h u d q # f k r r o # # u d q j d # r i # f r r s h u d w i r q # x w # e h # u n h q w #
 d p r q j # k h # k r p h # k h # f k r r o # Ø q g # k h # Ø k x u f k # # Ø # k u h # Ø h # l w d # Ø p s r u d q w # l q f n # z # Ø h # z r u n l q j # r j h w k h #
 w r # Ø f k l y h # r x u # r e n f w y h #

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Z h # h t x h w # k d # w k # k r p h # k s k r o # Ø q g # x s s r u # w k h # w d f k h u # Ø q g # k h # l q w u x f w i r q # r i # w k h # f k r r o # z # h # h q r # | #
 z r u n l q j # z # l w # Ø d p # l h # z k r # Ø h # z k o l q j # r # z d n # z # l w # k v # Ø q # w k h # k q l w # | r # # w k h # K r o # | # s l u w # # z # k h q h y u # w k h # f k r r o #
 Ø q g # w k h # k r p h # s x Ø # Ø q # r s s r v h # Ø j l h f w i r q v # w k h # Ø k l o j h q # x i h u #

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W k h # f k r r o # Ø h u y h # Ø v # Ø q # Ø p s r u d q w # (# h q v i r q # r i # w k h # k r p h # Ø q # w k h # l w d # z r u n # # f # k u l w i d q # w d l q l j # # R x u #
 F k u l w i d q # f k r r o # Ø g r h # Ø g r w # h d h y h # s d h q w # r i # w k h l u # r e d j d w i r q v # # w k h # k r p h # # Ø q g # k r x o g # e h # w k h # Ø k l i # Ø j h q f | #
 i r u # # k u l w i d q # w d l q l j # # h y h # Ø x u l q j # w k h # f k r r o # | h d y # Ø k l o j h q # Ø h # Ø v # f k r r o # Ø q d # # 7 # r # # 9 ; # k r x u # # r i # Ø f k #
 z h n l # # w k h # k r p h # Ø q g # f k r r o # Ø p x w # e r w # e h # # k u l w f h q w h u h g # i r u # Ø k l o j h q # r # h f h y h # w k h # e h w # h g x f w i r q #
 Ø w d l q d e d h #

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W k h # r o r z l q j # Ø h # # h z # z d | # w k h # k r p h # Ø q # h s # # w # w n s k h q # Ø w d l q # w # r e n f w y h #

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- D # D w # f k r r o #
- 41 D f w y h # Ø q g # h u e d # Ø x s s r u # Ø q g # w h q j w k h q # w k h # f k r r o # Ø q g # w # z r u n h u #
- 51 N h s # Ø q # f o r v # f r q w f w # z # l w # | r x u # Ø f k l o j h # w d f k h u #
- 61 V k r z # Ø q # Ø q w h u w # Ø q # | r x u # Ø f k l o j h # h g x f w i r q # w k u r x j k # Ø w h q g d # Ø f n # Ø w # s h f l d # Ø d | v #
 s d h q w # w d f k h u # f r q i h u h q f n # # f k r r o # Ø f w y l w h # Ø q g # f k r r o # # s r q v r u h g # # h y h q w # Ø q g #
 p h w l q j v #
- 71 I r o r z # k h # { Ø p s d # | h y h # r # k v e | # f # k u l w i r x u # Ø r u g # Ø v # h f r u h g # Ø q # Ø d w k h z # # ; # Ø v # #
 l # r x w d q h # Ø q # w k h # f r q i d f # # i n r o x w i r q # s u r f h g x u # Ø v # # Ø s s h d u # r q # s d j # # 5 # # I U V W # # d n #
 r y h u # f k r r o # Ø s u r e d p # v # z # l w # | r x u # w d f k h u # # p d q | # s u r e d p # Ø h # # x l f n d # # h r o y h g #
 w d n l q j # Ø j l h f w # # r # w k h # s d w i l w # Ø q y r o y h # # i # # p # r u # # h s # # Ø q j h g h g # # r # Ø h r o y h # w k h #
 v l w d w i r q # # s h d # z # l w # k h # s u l q f l s d # # l # w k h # s u l q f l s d # # # k q d e d # # r # Ø h r o y h # w k h # f r q f h u q #
 u h t x h w # Ø q # Ø s s h d u d q f n # z # l w # k h # # r d u g # # r i # # l g x f w i r q # #
- 81 H w d e d k # s u r f h g x u h # # r # Ø q f r x u d j h # Ø q g # x s s r u # # f k r r o # w i f # Ø f k l y h p h q w #

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- E # ##### D w # K r p h #
- 41 S u l | # r i w q # i r u # w k h # K r o # | # s l u w # # j x l g d q f n # i r u # | r x u h i # # Ø d # l # | Ø q g # w d f k h u #
- 51 P d n # Ø d # l # Ø j h y r w i r q # # Ø h j x o l # s d u # r i # k r p h # Ø h #
- 61 V h # # # F k u l w i d q # # { Ø p s d # # # F k l o j h # # p r g h # w k h l u # s d h q w # #
- 71 I q f o x g h # # F k u l w f h q w h u h g # # f r q y h u d w i r q # # Ø w h u d w u h # # Ø q g # Ø f w i r q # Ø q # | r x u # Ø d l # # r x w i q h #
- 81 V w g | # w k h # # f u l s w u h # # r # e h f r p h # p r u # # Ø h q w h u h g # Ø q # # r g l # # # l w i r q # # Ø h d q # k h d y l # Ø r q #
 J r g # # r u # # h s # # Ø q g # K h # z # l o j x l g h # | r x # Ø q # k v l q j # | r x u # # J r g Ø j l y h q # w d n q w # # r # K l # Ø a r u # #
- 91 I q w i k # # s u r s h u # # w h z d u g v k l s # k d e l w # # w k u r x j k # # Ø d q q h g # k v # # r i # # Ø h # # Ø d n q w # # Ø q g #
 u h r x u f n v # # Ø q f o x g l q j # w k h # k v # # r i # # # F U L S #

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- F # ##### D w # F k x u f k #
- 41 U h j x o l # z # r u k l s # # r j h w k h u # # Ø # # Ø d # l # #
- 51 D w h q g # # E l e d # # Ø w # # / # x g g d # # f k r r o # Ø q g # w k h u # Ø f k x u f k # Ø f w y l w h v #
- 61 E h # Ø q y r o y h # Ø q # w k h # # Ø w i r q # Ø q g # # l q l w u # | r i # # w # w n s k h q # w k u r x j k # Ø q # Ø f w y h # # s l u w # #
 y r o x q w h u l p # Ø q g # s d w i l s d w i r q #

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F r q i d f w # J h v r o x w l r q # S u r f n g x u h #
D v # l q q h u # b y l q j # q # b # d o n g # z r u g # w k h # g h y l o # w k h # z r u g # b q g # r x u # l q i x o # d w u h # d g # x v # q w # e i d o h # e h o l i #
g h v s d l u # b q g # w k h u # j u n d # k d p h # b q g # y l f n s # O x w k h u # v # p d o # e # d w h f k l y p # u # p h d q l q j # i # w k h # l { w k # S h w l r q , # # W k l v #
r i w h q # p d q l i h w # # w h o i # q # p l x q g h u w d q g l q j v # x h w l r q v # b q g # F r q i d f w # h j d u g l q j # q w x f w l r q # w k h # f o d w u r p #
d q g # f k r r d # s r d f | #

V w # w n s k h q # s u d f w f h v # v # w # j x l g h # w k h # s u r j u h w l r q # r i # e r p x q l f d w l r q # j l y h q # w r # x v # e | # F k u l w # r x u # D r u g # b q #
P d w k h z # ; - 4 8 @ 9 - # ⁸ L i # | r x u # e u r w k h u # l q v # e j d l q w # | r x # / # r # b q g # k r z # k l p # k l v # d x o y # x w # e h z h g # w k h # z r # i #
| r x l # # i # k h # b w h q v # | r x # k d y h # z r q # | r x u # e u r w k h u # r y h u # ⁹ E x w # i # k h # z l o # r w # l w h q # d n h # r q h # r u # z r # r w k h u # b a r q j #
v r # k d w # y h u # p d w h u # p d | # e h # w d e d k h g # e | # w k h # w l p r q | # i # z r # r u # w k h # z l q h w h # Q L Y , # # W k h # w h s v # l u h #
r x w d q h g # e h a r z #

41 Surp swq | b q g # i h s h f w i x o | g l v f x w # | r x u # x h w l r q v # r u # F r q f n u q v # z l k # w k h # b q g l y g x d a v # g l u h f w o #
l q y r o y h g | #

51 F r q w d f w # w k h # f o d w u r p # w d f k h u # g l u h f w o # b q g # j u e d o | # l i # s r w l e d n # w r # g l v f x w # w k h # x h w l r q # r u #
f r q f n u q | # # g # l w d w l r q # l q y r o y l q j # w k h # f o d w u r p # w k h # s u l q f l s d z # l o # r w # l q w h y h q h # k q w d # w k h #
w d f k h u # k d v # e h h q # F r q w d f w g # b q g # j l y h q # w k h # s s r u w q l w | # w r # i h v r o y h # w k h # F r q f n u q | #

61 T x h w l r q v # r u # F r q f n u q v # w k d w # f f x u # x w l g h # w k h # f o d w u r p # / r u # x h w l r q v # r u # F r q f n u q v # k d w # k d y h # | h w #
w r # e h # d w i d f w r u l o | # i h w d g # l u h # z r # e h # b g g u h w h g # w r # w k h # f k r r d # s u l q f l s d o # # W k h # f k r r d # s u l q f l s d o # z l o #
w k h q # g l v f x w # w k h # l w d w l r q # z l k # w k h # f o d w u r p # w d f k h u # l q y r o y h g # b q g # l u d q j h # r u # b # p h h w l q j #
e h z h g # w k h # s u l q f l s d o # w k h # f o d w u r p # w d f k h u # b q g # w k h # s d w l h # l q y r o y h g | # # W k h # E r d u g # r i # I g x f d w l r q #
z l o # r w # l q w h y h q h # k q w d # w k h # w d f k h u # b q g # s u l q f l s d o # k d y h # e h h q # F r q w d f w g # b q g # j l y h q # q # r s s r u w q l w | #
w r # i h v r o y h # w k h # F r q f n u q | #

71 ##### T x h w l r q v # b q g # F r q f n u q v # w k d w # k d y h # | h w # z r # e h # d w i d f w r u l o | # i h w d g # e | # w k h # f k r r d # s u l q f l s d o # l u h # r # #
e h # e u r x j k w # z r # w k h # b w h q w l r q # r i # w k h # E r d u g # r i # I g x f d w l r q | # # W k h # E r d u g # r i # I g x f d w l r q # r u # Q # #
u h s u h n q w d y h # w k h # h r i # z l o # w k h q # g l v f x w # w k h # x h w l r q # r u # F r q f n u q # z l k # w k h # f k r r d # s u l q f l s d o # # # #
W k h # E r d u g # r i # I g x f d w l r q # k r x o g # e h # l q y r o y h g # r q o | # l u h # w k h # s u h y l r x v # w h s v # k d y h # e h h q # r o r z h g | #

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H Q U R O O P H Q W # D O G # L H H V #

H q u r o o p h q w # s r d f l h v #
H q u r o o p h q w # q # r x u # f k r r d # w # r s h q # w r # b q | r q h # z l k l q j # # F k u l w d q # g x f d w l r q # h j d u g d w # r i # w k h u # s u h n q w #
f k x u f # p h p e h u k l s | # F k l o y h q # r i # r x u # F r q j u h j o w l r q # z l o # e h # j l y h q # s u r u l w | # q # q u r o d q j # R w k h u # P l v r x u l #

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Vw#Wshkhq#Dxwkhudq#Vfkrro#i#k#h#Dxwkhudq#kxufk##P lvrxu#V|qrg/#Bgp lw#Wxghq#w#r#i#Bq|#dfh/#Eraru#
qdwrqddw|#Bq#Wkq#lf#ul#j#l#Z h#gr#gr#w#j#l#v#l#p l#d#w#r#q#k#h#d#v#r#i#d#f#h/#Eraru/#q#d#w#r#q#d#w#l#Bq#Wkq#lf#
rul#j#l#/#h{/#B#j#h#r#u#d#q#l#f#s#Bq#Bgp l#l#w#d#w#r#q#i#x#u#g#x#f#w#r#q#d#r#d#f#l#v/#Bgp l#v#r#q#v#r#d#f#l#v/#Bk#d#w#l#f#v#
d#q#r#w#k#h#v#f#k#r#r#Bgp l#l#w#h#g#s#u#r#j#d#p#v#

Wk#h#h#Bq#r#x#u#h#d#r#q#E#k#k#g#h#q#z l#k#l#j#r#r#q#w#u#S#h#N l#q#h#j#d#w#h#q#s#u#r#j#d#p#p#x#w#e#h#x#o#l#r#l#h#w#u#d#l#q#h#l#

F#k#k#g#h#q#z l#k#l#j#r#r#q#w#u#l#q#h#j#d#w#h#q#p#x#w#k#d#y#h#h#d#f#k#h#q#k#h#d#j#h#r#i#l#y#h#r#q#r#u#e#h#i#r#u#h#h#s#w#p#e#h#i#
e#h#j#l#q#v#f#k#r#r#q#Bq#Wk#h#d#o#W#u#d#q#v#h#u#s#x#s#l#o#h#u#r#p#r#w#k#h#v#f#k#r#r#o#z.koh#h#Erq#v#l#g#h#h#g#r#u#h#q#u#o#p#h#q#w#q#k#h#j#u#d#h#
i#r#z#k#l#f#k#k#h#h#u#d#q#v#h#u#l#q#j#v#f#k#r#r#d#h#f#r#p#h#q#g#h#k#h#p###

D#o#W#x#g#h#q#w#u#d#q#v#h#u#p#x#w#e#h#B#s#s#r#y#h#e|#k#h#D#gp l#l#w#d#w#r#u#l#

D#w#h#q#d#q#f#h#B#z#r#u#k#l#s#h#u#l#f#v#h#B#h#x#q#q#d#h#q#w#d#e#h#d#h#i#r#i#k#h#D#x#w#k#h#u#d#q#E#k#x#u#f#k#d#v#f#r#p#d#q#g#h#e|#r#r#g#l#
S#d#h#q#w#E#x#w#u#h#k#h#l#u#d#p l#q#N#d#w#k#e|#h#j#x#o#u#p#z#r#u#k#l#s#l#j#r#j#h#k#h#u#h#D#v#D#h#t#x#l#h#p#h#q#w#r#i#D#w#h#q#d#q#f#h#B#w#W#
V#h#s#k#h#q#/#k#h#E#r#d#g#r#i#I#x#f#w#r#q#k#d#v#w#d#e#d#k#h#g#k#h#w#d#q#d#g#r#i#D#3(#D#w#h#q#d#q#f#h#r#u#p#h#p#e#h#N#E#k#k#g#h#q#z#B#w#
u#h#j#x#o#u#E#k#x#u#f#k#h#u#l#f#v#h#Z h#g#l#j#v#/#x#q#h#u#v#/#w#l#B#r#r#w#f#r#x#q#w#i#r#u#E#k#x#u#f#k#D#w#h#q#d#q#f#h#E#r#q#i#l#p#d#q#v#p#x#w#
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Q#h#z#/#W#x#g#h#q#w#G l#v#r#x#q#w#
D#q|#h#z#N l#q#h#j#d#w#h#q#W#k#r#x#j#k#,#*#j#u#d#h#w#x#g#h#q#w#z.koh#h#f#h#l#y#h#D# 833#j#l#v#r#x#q#w#z#k#l#f#k#z.koh#h#j#h#g#x#f#w#h#g#h#u#r#p#
w#k#h#l#u#d#p#l#N#r#v#d#x#w#l#w#r#q#B#p#r#x#q#w#

U#h#h#u#d#G l#v#r#x#q#w#
D#q|#E#x#u#h#q#w#W#W#h#s#k#h#q#d#p#l#z#k#r#h#i#h#u#D#h#z#/#W#x#g#h#q#w#z.koh#h#f#h#l#y#h#D# 583#j#l#v#r#x#q#w#z#k#l#f#k#z.koh#h#
g#h#g#x#f#w#h#g#h#u#r#p#W#k#h#l#u#W#l#w#r#q#B#p#r#x#q#w###

I#h#w#
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535354#N#x#w#l#w#r#q#
4^w2R qd#E#k#k#g#h# '5/998#
5^oq#E#k#k#g#h# # '5/5:8#
6^u2p ru#h# # '5/3<8#
7N# # # '4;/93#
6N# # # '4/4<3#

D#o#d#p#l#h#h#h#h#q#f#r#x#u#j#h#r#r#s#h#u#r#p#r#o#x#q#w#h#u#r#x#u#w#h#p#r#u#h#q#i#r#u#p#d#w#r#q#h#j#d#g#l#j#s#r#w#l#e#d#h#r#o#x#q#w#h#u#
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#

I lqdg fldd# wlvwdq fn##
I lqdg fldd# wlvwdq fn# #bydlced# #ru# wkgqhw# #q# N lqghujduwq# #k# urx# jk# #wk# #judgh## #S# uh# f# k# r# r# #w# g# h# q# w# #g# r#
qrw# #x# ddi# #iru# #l# q# d# f# l# d# #l# g# 1## #W# k# h# #l# q# d# f# l# d# #l# g# #d# s# s# d# f# d# w# r# q# #w# #b# y# d# l# c# e# d# #r# q# d# q# h# #w# k# u# r# #j# k# #h# #D# F# W# V# #
P dgdjhp hqw# #d# q# n# #r# q# #r# x# #z# #h# e# v# #h# #r# #u# #d# #w# #k# #w# #s# #v# #2# #r# q# d# q# h# #l# i# #d# #f# w# #p# #j# #w# #f# r# #p# #2# #v# #j# #q# #l# #q# #2# #6# #1# #0# #4# #<## #W# k# h# #l# q# d# f# l# d# #l# g#
d# s# s# d# f# d# w# r# q# #w# #f# r# #q# #l# #g# #h# #q# #w# #d# #d# #h# #f# #x# #h# #u# #d# #D# #6# #3# #r# #r# #q# #h# #i# #x# #q# #g# #d# #e# #d# #h# #h# #w# #h# #t# #x# #l# #h# #g# #r# #s# #s# #o# #r# #u# #l# #q# #d# #f# l# #d# #l# #g#
#W# k# h# #g# #h# #d# #q# #h# #r# #s# #s# #o# #r# #u# #l# #q# #d# #f# l# #d# #l# #g# #w# #P# #d# #4# #1## #W# k# h# #z# #d# #g# #l# #j# #r# #i# #j# #d# #q# #w# #w# #f# #r# #q# #l# #g# #h# #q# #d# #

E rdug# #r# #i# #g# #x# #f# d# w# r# #q# #w# #h# #d# #v# #x# #u# #|##
Wkh# #w# #g# #h# #q# #w# #f# #r# #p# #s# #h# #k# #h# #q# #v# #y# #h# #h# #h# #2# #w# #l# #w# #r# #q# #s# #d# #p# #h# #q# #w# #b# #g# #h# #s# #r# #v# #w# #h# #g# #l# #q# #w# #k# #h# #w# #h# #d# #v# #x# #u# #|## #r# #i# #k# #h# #w# #h# #w# #h# #s# #k# #h# #q# #
frq# #j# #h# #j# #d# #w# #r# #q# #W# k# h# #E# #r# #d# #g# #r# #i# #g# #x# #f# d# #w# #r# #q# #k# #v# #h# #d# #s# #r# #w# #r# #q# #r# #i# #k# #h# #h# #h# #w# #r# #s# #d# #|## #r# #u# #g# #x# #f# d# #w# #r# #q# #d# #x# #s# #s# #d# #h# #g# #g# #
htx# #l# #p# #h# #q# #w# #W# k# h# #h# #p# #d# #l# #g# #h# #w# #k# #v# #h# #g# #e# #|## #w# #h# #w# #h# #s# #k# #h# #q# #d# #x# #k# #h# #u# #d# #q# #k# #x# #u# #f# #k# #r# #s# #d# #|## #r# #u# #r# #s# #h# #u# #d# #w# #r# #q# #d# #f# #r# #w# #h# #

Vkdulqj# #e# #d# #w# #l# #q# #j# #v# #q# #f# #o# #g# #l# #j# #p# #r# #q# #l# #h# #v# #z# #l# #k# #l# #q# #k# #h# #e# #r# #g# #|## #r# #i# #f# #k# #u# #l# #w# #h# #z# #d# #g# #v# #k# #l# #s# #l# #q# #d# #f# #w# #r# #q# #I## #r# #q# #h# #r# #i# #k# #h# #h# #q# #
sulq# #f# #l# #s# #d# #h# #r# #i# #f# #r# #q# #w# #p# #s# #r# #u# #d# #|## #w# #h# #z# #d# #g# #v# #k# #l# #s# #l# #q# #d# #f# #w# #h# #g# #l# #q# #w# #I## #f# #r# #u# #l# #q# #w# #k# #v# #h# #d# #s# #r# #w# #r# #q# #v# #h# #h# #|## #r# #x# #u# #s# #d# #h# #q# #w# #
z# #l# #k# #x# #s# #s# #o# #z# #k# #d# #w# #k# #h# #|## #q# #h# #g# #|## #r# #k# #d# #|## #q# #x# #u# #g# #k# #h# #l# #s# #d# #h# #q# #w# #z# #l# #k# #x# #s# #s# #o# #z# #k# #d# #w# #r# #x# #q# #h# #g# #|## #r# #i# #g# #g# #u# #h# #w# #k# #l# #w# #
sulq# #f# #l# #s# #d# #h# #k# #h# #E# #r# #d# #g# #r# #i# #g# #x# #f# d# #w# #r# #q# #p# #d# #q# #d# #j# #h# #y# #h# #u# #d# #x# #q# #g# #v# #r# #z# #k# #l# #f# #k# #g# #r# #q# #r# #u# #f# #d# #q# #f# #r# #q# #w# #l# #e# #x# #h# #I## #z# #h# #q# #f# #r# #x# #u# #d# #j# #h# #
wkh# #p# #h# #p# #e# #h# #u# #r# #i# #w# #h# #w# #h# #s# #k# #h# #q# #r# #s# #u# #d# #f# #w# #h# #l# #w# #l# #w# #e# #u# #r# #s# #r# #w# #r# #q# #d# #h# #j# #l# #y# #l# #q# #j# #w# #k# #h# #D# #r# #u# #g# #I## #W# k# h# #f# #k# #r# #r# #d# #f# #d# #q# #e# #h# #
ixukhu# #x# #s# #s# #r# #u# #h# #g# #k# #u# #r# #x# #j# #k# #p# #h# #p# #r# #u# #d# #w# #g# #g# #r# #q# #d# #w# #r# #q# #j# #l# #y# #h# #q# #r# #w# #h# #w# #h# #s# #k# #h# #q# #d# #x# #k# #h# #u# #d# #q# #f# #k# #r# #r# #o# #I## #p# #h# #p# #e# #h# #r# #i# #
Vw# #h# #w# #h# #s# #k# #h# #q# #p# #d# #|## #o# #z# #k# #d# #w# #k# #h# #i# #h# #u# #l# #q# #j# #h# #q# #y# #h# #o# #r# #h# #s# #|## #f# #k# #u# #l# #w# #d# #q# #G# #d# #|## #f# #k# #r# #r# #o# #r# #k# #x# #s# #s# #r# #u# #h# #k# #h# #f# #k# #r# #r# #o# #I## #

Wkh# #D# #q# #j# #h# #|## #x# #q# #g# #w# #h# #j# #u# #d# #z# #d# #|## #r# #k# #h# #s# #w# #g# #h# #q# #w# #d# #g# #k# #h# #l# #h# #d# #p# #l# #h# #w# #k# #d# #w# #p# #d# #|## #k# #d# #y# #h# #l# #i# #l# #f# #x# #o# #|## #i# #i# #r# #u# #l# #q# #j# #f# #k# #r# #r# #o# #I## #
vxssdh# #|## #h# #g# #w# #h# #s# #h# #h# #v# #|## #f# #w# #y# #l# #|## #h# #h# #v# #|## #d# #g# #p# #r# #h# #I## #W# k# h# #D# #q# #j# #h# #|## #x# #q# #g# #w# #h# #j# #u# #d# #z# #d# #|## #r# #k# #h# #s# #w# #g# #h# #q# #w# #d# #g# #
wkh# #l# #h# #d# #p# #l# #h# #w# #k# #d# #w# #h# #s# #h# #u# #l# #q# #f# #h# #d# #f# #u# #l# #v# #|## #r# #w# #r# #i# #p# #s# #r# #p# #h# #q# #w# #d# #g# #k# #h# #h# #h# #I## #r# #x# #f# #d# #q# #d# #h# #d# #h# #l# #i# #h# #h# #q# #f# #h# #r# #u# #I## #
wkgqhw# #d# #g# #k# #l# #2# #k# #h# #d# #p# #l# #q# #k# #u# #r# #x# #j# #k# #|## #r# #x# #u# #h# #q# #h# #u# #r# #w# #g# #r# #q# #d# #w# #r# #q# #I## #r# #u# #p# #r# #h# #q# #i# #r# #u# #p# #d# #w# #r# #q# #r# #u# #r# #j# #h# #s# #d# #d# #h# #
frq# #w# #f# #w# #k# #h# #r# #i# #l# #f# #h# #I## #

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#

VF K HG X OIQ J #

Vfkrro# #w# #h# #g# #d# #q# #f# #h# #
Uhxdu# #f# #k# #r# #r# #d# #w# #h# #q# #d# #q# #f# #h# #w# #h# #q# #w# #d# #w# #k# #h# #s# #r# #j# #h# #w# #r# #i# #k# #h# #f# #k# #g# #v# #z# #r# #u# #d# #g# #h# #t# #x# #l# #h# #g# #e# #|## #k# #h# #w# #d# #h# #
d# #w# #h# #q# #d# #q# #f# #h# #z# #v# #I## #r# #q# #k# #h# #g# #d# #|## #f# #k# #g# #v# #z# #r# #u# #d# #g# #h# #t# #x# #l# #h# #g# #e# #|## #k# #h# #w# #d# #h# #
<# #3# #I# #p# #|## #r# #w# #d# #h# #z# #k# #|## #k# #h# #f# #k# #g# #v# #z# #r# #u# #d# #g# #h# #t# #x# #l# #h# #g# #e# #|## #k# #h# #w# #d# #h# #
ehq# #f# #r# #q# #w# #f# #w# #h# #g# #e# #|## #k# #h# #s# #d# #h# #q# #w# #z# #k# #e# #h# #f# #d# #o# #g# #I## #W# k# h# #s# #d# #h# #q# #w# #k# #r# #x# #g# #|## #o# #z# #p# #d# #h# #l# #u# #d# #q# #j# #h# #p# #h# #q# #w# #r# #k# #d# #y# #h# #
k# #r# #p# #h# #z# #r# #u# #h# #q# #w# #k# #r# #p# #h# #z# #l# #k# #d# #q# #r# #w# #k# #h# #u# #f# #k# #g# #v# #z# #r# #u# #d# #g# #h# #t# #x# #l# #h# #g# #e# #s# #I## #w# #g# #h# #q# #w# #z# #k# #e# #h# #f# #d# #o# #g# #I## #W# k# h# #s# #d# #h# #q# #w# #k# #r# #x# #g# #|## #o# #z# #p# #d# #h# #l# #u# #d# #q# #j# #h# #p# #h# #q# #w# #r# #k# #d# #y# #h# #
d# #h# #u# #k# #h# #w# #d# #h# #r# #i# #k# #h# #g# #d# #|## #4# #3# #I# #p# #1# #|## #h# #h# #q# #r# #h# #d# #j# #e# #d# #h# #r# #u# #d# #h# #u# #f# #k# #r# #r# #o# #f# #w# #y# #l# #h# #v# #h# #I## #h# #s# #r# #w# #l# #q# #j# #h# #h# #q# #w# #j# #d# #h# #r# #u# #
sudfwf# #h# #v# #e# #d# #g# #|## #w# #g# #h# #q# #w# #f# #r# #x# #q# #f# #b# #w# #f# #l# #z# #k# #h# #q# #h# #y# #h# #s# #r# #w# #l# #e# #d# #p# #h# #g# #l# #f# #d# #h# #o# #w# #h# #g# #s# #s# #r# #l# #q# #p# #h# #q# #w# #k# #r# #x# #g# #e# #h# #p# #d# #g# #h# #
ehir# #h# #r# #u# #d# #h# #u# #f# #k# #r# #r# #o# #k# #r# #x# #u# #I## #z# #k# #h# #q# #k# #l# #v# #j# #r# #w# #s# #r# #w# #l# #e# #d# #|## #s# #d# #h# #q# #w# #k# #r# #x# #g# #|## #h# #w# #u# #g# #k# #h# #w# #g# #h# #q# #w# #r# #f# #k# #r# #r# #o# #I## #
vrrq# #|## #h# #s# #r# #w# #l# #e# #d# #I## #W# k# h# #h# #d# #f# #k# #h# #k# #r# #x# #g# #e# #h# #q# #i# #r# #u# #p# #h# #g# #q# #d# #g# #y# #d# #q# #f# #h# #z# #k# #h# #w# #g# #h# #q# #w# #k# #d# #s# #s# #r# #l# #q# #p# #h# #q# #w# #
htx# #l# #q# #j# #f# #k# #r# #r# #o# #I## #e# #h# #q# #f# #h# #

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Lih#fk#lg#ndyh#ehiruh#z r#krxu#diu#k#h#wdu#r i#k#h#g d|#43-3#p 1,#k#h|#z k#eh#frxqwhg#devhqw#iru#k#h#
gd|#d#fk#lg#ndy#lqj#ehwz#hq#3#p 1#p#g#1#p 1#z k#eh#frxqwhg#devhqw#iru#d#k#h#g d|##Lih#fk#lg#
devhqw#iru#k#h#r#p ru#krxu#k#h|#z k#eh#frxqwhg#devhqw#iru#d#k#h#g d|#

Iru#d#q#devhqw#r#eh#f#xvhg#/#w#k#h#s#d#h#g#w#r#n#j#d#j#x#d#g#l#q#v#h#s#r#q#v#l#d#w|#r#r#p#d#j#f#r#q#w#f#w#k#h#
v#k#r#r#d#ehiruh#k#h#w#g#h#q#w#h#w#u#g#r#h#h#u#l#i#k#h#l#h#q#r#z#d#g#j#h#r#i#k#h#w#g#h#q#w#d#evhqw#f#h#d#q#k#q#h#f#xvhg#
devhqw#f#h#z#k#h#q#h#w#g#h#q#w#d#evhqw#u#r#p#f#k#r#r#o#f#q#l#y#l#g#x#d#f#d#w#h#v#r#u#f#k#r#r#o#f#f#w#l#w#h#z#w#k#r#x#w#k#h#
n#q#r#z#d#g#j#h#r#i#s#d#h#g#w#/#j#x#d#g#l#q#v#r#u#f#k#r#r#o#r#i#l#f#d#v#r#u#h#p#h#o#h#h#u#l#i#f#d#w#r#q#r#f#k#r#r#o#d#x#w#k#r#u#l#w#h#z#d#v#q#r#w#
g#r#q#h#d#q#|#w#g#h#q#w#k#d#y#l#q#j#d#q#k#q#h#f#xvhg#d#evhqw#f#h#v#h#t#x#l#h#g#r#p#h#h#z#w#k#h#s#u#l#q#f#l#s#d#z#k#r#z#k#g#h#w#p#l#q#h#
w#h#g#l#f#l#s#d#q#d#|#f#w#r#q#h#t#x#l#h#g#d#d#v#k#r#r#o#z#r#u#p#l#w#h#g#p#x#h#w#r#d#q#|#d#evhqw#f#h#v#h#t#x#l#h#g#r#p#h#h#z#w#k#h#
devhqw#f#h#z#k#h#q#h#d#q#q#h#d#d#q#h#u#d#d#q#j#h#g#z#w#k#h#h#d#f#k#h#u#v#r#u#k#h#w#g#h#q#w#z#k#eh#h#h#q#d#d#h#g#r#u#d#h#z#r#u#l#i#k#h#
devhqw#f#h#z#k#q#h#f#xvhg#k#h#h#d#f#k#h#z#k#eh#f#r#q#v#g#h#u#k#h#f#r#p#s#d#w#g#z#r#u#d#w#d#q#g#j#u#d#h#p#f#f#r#u#g#l#q#j#d#

D uilyd#d#q#g#G lyp lwd#
Wk#h#f#k#r#r#o#d#q#g#d#f#x#w#|#h#h#h#s#r#q#v#l#e#d#2#d#d#e#d#r#u#k#h#w#g#h#q#w#z#k#l#d#w#k#h#|#h#h#d#w#f#k#r#r#o#f#k#s#x#q#w#d#w#k#h#p#h#
w#k#h#|#d#y#h#w#k#h#f#k#r#r#o#e#x#l#q#l#j#d#w#p#l#w#d#w#p#h#l#W#k#h#h#r#u#h#f#d#d#u#j#x#l#g#h#d#h#v#r#u#w#g#h#q#w#d#q#g#h#d#f#k#h#u#v#h#h#
q#h#f#w#d#u|#r#s#u#r#y#l#g#h#d#d#h#h#q#y#l#u#r#q#p#h#q#w#r#u#k#h#w#g#h#q#w#l#

D uilyd#
S#d#h#g#w#2#j#x#d#g#l#q#v#p#d#|#g#u#r#s#f#k#l#g#u#h#g#r#i#i#q#k#h#p#r#u#l#q#j#q#h#u#r#g#w#r#i#k#h#f#k#r#r#o#r#r#r#q#j#d#w#k#h#g#u#l#y#h#u#g#r#h#w#
q#r#w#h#|#w#k#h#h#k#l#f#d#d#q#g#d#y#h#w#s#d#h#g#d#q#k#h#h#o#r#z#f#x#u#e#h#g#Q#r#S#d#n#l#q#j#h#r#q#h#g#h#v#j#q#d#w#g#e#|#k#h#f#w#|#w#k#l#w#h#v#
u#h#h#y#h#g#r#u#e#x#v#h#w#u#r#p#:#-63#p#u#h#-63#p#1#

D uilyd#W l#p#h#
F#d#w#h#w#e#h#j#l#q#d#w#:#-33#p 1#p#g#r#r#u#h#h#q#r#f#n#g#d#w#:#-63#p 1#p#w#g#h#q#w#/#s#u#h#f#k#r#r#o#k#k#u#r#x#j#k#:#*#j#u#d#h#|#d#u#l#y#l#q#j#
ehiruh#k#h#f#k#r#r#o#g#r#r#u#h#h#s#h#q#:#-63#p 1#p#h#p#d#l#q#w#k#h#s#d#h#g#w#h#h#s#r#q#v#l#e#l#w#|#f#k#l#g#f#d#h#|#d#y#l#d#e#d#h#w#
V#w#s#k#h#q#h#f#k#l#g#f#d#h#|#q#f#l#|#w#d#w#l#q#j#d#w#B-63#p 1#p#V#h#f#k#l#g#f#d#h#s#d#j#h#41#|#s#d#h#g#w#2#j#x#d#g#l#q#v#g#u#r#s#r#i#h#r#
s#d#n#d#f#u#r#w#S#d#p#d#w#r#u#|#w#h#w#r#u#q#d#q#|#r#i#k#h#d#g#r#l#q#l#j#w#h#w#/#s#d#h#g#w#2#j#x#d#g#l#q#p#x#w#d#f#f#r#p#s#d#q#|#k#h#
f#k#l#g#f#d#h#g#|#f#u#r#w#S#d#p#d#w#r#u#|#w#h#w#/#s#u#h#h#d#e#d#|#v#l#q#j#w#k#h#f#u#r#w#z#d#w#h#

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W#d#g#l#q#h#w#S#r#d#f#|#
D#v#g#d#l#|#h#w#g#q#d#f#h#|#d#q#|#w#x#h#y#l#w#d#w#r#f#d#g#p#l#f#x#f#f#r#w#/#r#h#h#s#x#q#f#w#d#d#w#|#h#h#d#w#g#h#q#w#h#w#d#g#|#k#h#r#u#k#h#
p#d#|#p#l#w#r#x#w#r#w#q#q#|#q#p#r#u#l#q#j#f#d#w#h#w#e#x#w#d#o#r#r#q#w#k#h#e#h#w#z#d#|#r#e#h#j#l#q#d#q#d#|#k#h#d#u#l#q#j#r#g#h#z#r#g#d#w#
p#r#u#l#q#j#h#y#r#w#r#q#d#v#x#f#k#/#w#g#h#q#w#w#k#r#x#o#g#p#d#h#h#y#h#u#|#i#i#r#u#w#r#e#h#s#x#q#f#w#d#d#q#g#h#d#g#|#r#u#k#h#e#h#j#l#q#l#j#
r#i#k#h#f#k#r#r#o#g#d#|#

G lyp lwd#
S#d#h#g#w#2#j#x#d#g#l#q#v#p#d#|#s#l#f#f#k#l#g#u#h#g#k#s#q#h#u#r#g#w#r#i#k#h#f#k#r#r#o#e#x#w#p#d#|#g#r#w#w#d#q#g#r#u#s#d#n#d#q#w#k#h#h#o#r#z#0#
f#x#u#e#h#g#Q#r#S#d#n#l#q#j#h#r#q#h#g#h#v#j#q#d#w#g#e#|#k#h#f#w#|#w#k#l#w#h#u#h#y#h#g#r#u#e#x#v#h#w#u#r#p#:#-63#p#u#h#-63#p#1#p#
s#d#h#g#w#2#j#x#d#g#l#q#v#p#h#h#w#d#q#g#l#q#j#r#u#s#d#n#h#g#d#f#u#r#w#S#d#p#d#w#r#u#|#w#h#w#r#u#q#d#q#|#r#i#k#h#d#g#r#l#q#l#j#w#h#w#/
w#g#h#q#w#h#h#w#r#e#h#p#f#f#r#p#s#d#q#l#g#e#|#d#q#d#g#x#o#w#h#d#f#k#h#u#v#s#d#h#g#w#2#j#x#d#g#l#q#/#r#u#w#l#q#h#g#s#h#w#r#q#h#d#q#g#p#x#w#z#v#h#
w#k#h#f#u#r#w#z#d#w#h#W#d#l#q#h#g#w#g#h#q#w#f#u#r#w#z#d#w#j#x#d#g#p#d#|#d#w#l#w#d#q#w#k#h#h#p#l#w#d#s#u#r#f#w#h#
D#w#h#g#w#r#q#G#u#l#y#h#u#S#d#d#h#h#g#r#h#r#w#s#h#u#i#r#u#p#X#Q#x#u#q#f#q#h#u#r#g#w#r#i#k#h#f#k#r#r#o#d#w#d#q#|#p#h#l#W#k#d#q#h#r#x#S#

G lyp lwd#W l#p#h#
V#w#g#h#q#w#p#x#w#d#y#h#w#f#k#r#r#o#z#w#k#l#q#8#p#l#q#x#w#r#i#g#l#p#l#w#d#6-33#p 1#p#w#g#h#q#w#w#d#l#q#j#r#q#j#h#p#x#w#
p#d#h#h#d#u#d#q#j#h#p#h#q#w#r#k#v#h#f#k#l#g#f#d#h#d#d#q#h#f#h#s#w#r#q#h#v#p#d#h#r#u#w#g#h#q#w#z#k#r#h#h#t#x#h#w#g#r#w#d#|#d#h#u#e#|#
d#h#d#f#k#h#u#v#h#h#q#q#h#u#k#h#x#s#h#y#l#r#q#r#i#d#q#d#h#u#f#k#r#r#o#s#u#r#j#d#p#r#u#h#f#w#d#f#x#u#l#f#x#d#u#d#f#w#l#w#l#

#

Dw#j#lp lwd#p h#kh#w#g#q#w#k#d#h#k#h#k#r#l#h#v#
4,#Ohdyh#k#h#e#x#l#g#l#g#j#p#p#h#g#l#w#h#q#h#r#u#k#r#p#h#r#u#d#q#r#w#k#h#u#g#h#w#l#g#d#w#r#q#h#
5,#Sd#w#l#f#s#d#w#h#g#s#r#w#/#Q#d#w#r#q#d#k#q#l#r#u#K#r#q#r#u#r#f#l#w#/#r#u#r#w#k#h#u#f#w#y#w#l#w#h#k#d#w#d#w#p#p#h#g#l#w#h#q#h#l#w#h#
v#k#r#r#q#l#g#l#g#p#l#w#d#h#
6,#J#h#s#r#w#r#r#F#k#l#g#f#d#h#####
7,#J#h#s#r#w#r#r#w#g#|#k#d#r#u#d#u#g#j#g#x#s#h#y#w#l#w#r#q#r#i#d#f#x#w#|#r#u#w#d#i#l#
W#k#x#v#|#l#w#h#u#g#l#g#p#l#w#d#h#q#r#w#g#h#g#w#k#r#x#g#e#h#g#k#h#e#x#l#g#l#g#j#q#d#w#x#s#h#y#w#l#w#r#q#h#w#g#h#g#w#z#k#l#g#r#w#e#h#
s#h#p#l#w#h#g#r#k#d#q#j#d#u#r#x#g#q#h#r#u#z#e#d#q#j#w#r#F#r#p#s#d#w#p#x#v#f#s#u#d#f#w#f#h#/#s#r#w#s#u#d#f#w#f#h#/#w#l#H#G#x#u#l#g#j#s#r#w#h#
s#u#d#f#w#f#h#/#r#q#d#w#g#h#g#w#z#k#r#d#h#s#d#w#r#i#k#h#h#d#p#k#d#w#s#u#d#f#w#f#l#g#j#p#d#|#e#h#d#w#f#k#r#r#d#Q#r#f#k#l#g#u#h#g#z#k#e#h#
d#o#r#z#h#g#l#g#l#g#|#f#o#w#u#r#p#/#F#r#p#s#x#w#h#o#e#/#d#e#u#d#/#r#i#l#f#h#d#h#d#/#j#p#q#d#v#x#p#/#w#f#d#l#w#h#u#f#k#r#r#d#k#r#x#u#w#k#q#d#w#
x#q#g#h#w#k#h#g#l#h#f#w#x#s#h#y#w#l#w#r#q#r#i#d#h#d#f#k#h#u#h#

#

Q#r#r#q#J#h#f#h#w#
Z#h#w#k#h#u#s#h#p#l#w#l#g#j#d#o#w#g#h#g#w#z#k#l#g#r#x#w#l#g#h#g#x#u#l#g#j#w#k#h#q#r#r#q#h#h#f#h#w#h#w#g#h#g#w#z#l#w#k#q#r#w#h#i#u#r#p#k#h#l#h#
s#d#h#g#w#d#h#d#o#r#z#h#g#l#g#q#r#r#u#l#g#h#v#j#q#d#w#g#x#s#h#y#w#l#w#r#q#h#d#h#v#h#w#g#h#g#w#z#k#r#k#d#y#h#w#r#w#l#|#q#h#r#u#h#z#h#h#r#u#p#r#h#
v#k#r#x#g#k#d#y#h#d#g#r#f#r#u#w#q#r#w#h#h#o#d#q#j#z#k#|#k#l#w#v#d#g#y#l#d#e#d#h#

Ohdy#l#g#j#f#k#r#r#d#u#r#x#g#g#v#
L#i#h#s#x#s#l#g#h#g#v#w#r#h#d#y#h#k#h#f#k#r#r#d#j#u#r#x#g#g#v#d#w#q#|#w#p#h#g#x#u#l#g#j#w#k#h#g#d#/#k#h#v#k#h#p#x#w#k#d#y#h#s#h#p#l#w#l#w#r#q#h#u#r#p#
w#k#h#l#h#s#d#h#g#w#d#g#g#k#h#l#h#d#f#k#h#u#h#z#k#h#g#x#f#k#s#h#p#l#w#l#w#r#q#k#d#v#e#h#h#g#j#u#d#g#w#g#/#x#o#h#s#r#q#v#l#d#w#|#h#w#w#z#l#w#k#h#h#
s#x#s#l#g#d#g#g#k#h#s#d#h#g#w#h#k#h#r#i#l#f#h#g#h#g#v#w#r#e#h#g#r#w#i#l#g#r#i#k#h#w#g#h#g#w#h#g#h#s#d#w#u#h#/#k#h#h#i#r#h#/#d#o#w#g#h#g#w#
g#h#s#d#w#u#h#d#u#w#u#q#v#g#x#u#l#g#j#w#k#h#v#k#r#r#d#g#d#|#k#r#x#g#e#h#w#k#u#r#x#j#k#w#k#h#r#i#l#f#h#h#g#w#d#q#f#h#d#g#g#r#f#x#p#h#g#w#g#
d#s#s#u#r#s#u#l#w#h#q#|#

V#f#k#r#r#d#F#o#v#l#g#j#
l#g#k#h#h#y#h#g#w#r#i#s#r#w#l#e#d#w#f#k#r#r#d#f#o#v#l#g#j#v#r#u#w#f#k#r#r#d#w#d#w#l#g#j#g#h#o#l#v#,#e#h#f#d#x#h#r#i#l#q#f#o#p#h#g#w#z#h#w#k#h#u#/#u#d#g#l#r#
q#r#w#i#l#f#d#w#l#w#r#q#h#y#h#w#k#h#h#r#o#r#z#l#g#j#w#d#w#l#w#r#q#v#E#H#Y#Z#Z#[UR/#Z#WP#M#Z#P#G#F#d#g#g#W#Y#F#k#d#q#h#o#v#/#h#d#g#g#5#z#k#
d#h#u#w#g#h#g#w#d#g#g#s#d#h#g#w#s#u#l#w#r#9-68#d#p#I##W#k#h#i#l#w#d#h#u#w#z#k#h#l#w#h#u#/#d#g#f#h#d#f#k#r#r#d#r#u#j#y#h#l#g#i#r#u#p#d#w#r#q#
u#h#j#d#g#l#g#j#z#k#h#h#w#d#w#l#g#j#w#p#h#d#g#g#e#x#w#l#g#j#I#Q#r#o#w#h#w#k#d#q#;=3#d#p#I##h#f#r#g#g#u#d#g#l#r#d#h#u#w#z#k#h#d#g#f#h#d#f#k#r#r#d#I#
q#h#f#h#w#d#u#|#G#h#o#l#h#g#r#s#h#q#l#g#j#z#k#k#x#d#o#|#h#x#o#l#g#d#h#z#r#k#r#x#u#g#h#o#l#|#F#x#v#h#z#k#e#x#g#f#s#s#u#r#{#p#d#w#h#z#r#k#r#x#u#
o#w#h#w#k#d#q#r#u#p#d#h#k#r#x#g#z#h#w#k#h#u#f#r#g#g#w#l#w#r#q#v#r#u#f#h#d#u#d#g#l#g#p#l#w#d#h#i#w#g#h#g#w#/#d#g#l#r#d#h#u#w#z#k#h#g#y#l#h#s#d#h#g#w#
d#w#z#k#d#w#p#h#f#k#r#r#d#z#k#e#h#g#l#g#p#l#w#h#g#I#q#g#d#g#w#l#w#r#q#/#w#h#w#s#k#h#g#z#k#k#v#h#d#w#G#l#h#f#w#r#q#r#w#l#|#s#d#h#g#w#h#i#f#k#r#r#d#
f#o#v#l#g#j#v#w#k#u#r#x#j#k#s#k#r#q#h#f#d#w#/#h#w#p#h#w#d#j#l#g#j#/#d#g#g#p#d#l#w#h#h#

L#i#f#k#r#r#d#r#s#h#q#l#g#j#v#w#h#g#h#o#l#h#g#/#k#d#i#q#d#|#S#u#h#v#f#k#r#r#d#z#k#e#h#g#r#w#e#h#k#h#g#q#g#h#o#l#h#g#d#v#h#
G#d#l#|#f#k#h#g#x#d#h#h#h#

W#k#l#w#v#w#k#h#f#k#h#g#x#d#h#r#u#h#h#j#x#o#u#w#f#k#r#r#d#g#d#|#
##:63#d#p#I# I#d#f#x#w#|#g#h#y#w#l#w#r#q#h#
##:63#d#p#I# G#r#r#w#d#h#k#q#o#r#f#h#g#
##:33#d#p#I# F#o#w#h#w#e#h#j#l#g#
##4-33#d#p#I# 6#N#g#l#g#p#l#w#h#g#
##4-43#d#p#I#4-73#d#p#I# O#x#q#f#k#g#l#g#p#l#w#d#h#p#h#w#
##4-83#d#p#I# F#o#w#h#w#h#w#x#p#h#h#r#u#j#u#d#g#h#B#Q#
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##6-33#d#p#I# J#u#d#g#h#w#N#Q#g#l#g#p#l#w#h#g#

E#l#f#|#f#o#w#d#g#g#v#n#d#w#e#r#d#g#v#
E#l#f#|#f#o#w#/#n#d#w#e#r#d#g#v#d#g#g#f#r#r#w#u#p#d#|#e#h#k#v#g#h#r#u#w#d#g#v#s#r#w#d#w#l#w#r#q#h#r#d#g#g#h#u#r#p#f#k#r#r#d#e#x#w#d#h#q#r#w#r#e#h#l#g#g#h#g#
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d#x#w#r#u#l#w#d#w#l#w#r#q#h#

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d#p#l#w#r#i#K# r#l#f#r#g#l#W#k#r#v#h#g#l#g#j#k#h#e#x#v#k#r#x#g#f#f#w#l#F# k#u#l#w#l#d#g#d#w#l#o#h#p#h#l#F# r#q#w#l#q#x#h#g#p# l#e#h#k#d#y#l#r#u#l#g#g#
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D#f#r#s|#i#k#h#f#k#r#r#g#f#d#h#g#g#u#l#w#q#f#o#g#h#g#q#k#h#d#p#l#o|#s#d#f#n#h#w#k#d#g#g#h#g#l#x#w#l#w#k#h#S#d#h#g#w#l#p#h#h#w#g#j#q#q#D#x#j#x#w#l#
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p#d#r#u#h#y#h#g#w#l#
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V#h#l#v#h#s#k#h#g#l#y#d#j#h#d#f#d#o#x#k#h#u#d#g#f#k#r#r#g#l#w#r#w#g#h#g#k#h#h#d#f#k#l#g#j#r#i#h#d#g#l#g#j#z#u#w#g#j#d#g#d#w#l#w#p#h#w#l#f#
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#

I#q#h#g#g#l#w#l#r#g#h#r#h#d#j#l#r#g#h#z#e#n#f#w#l#w#d#x#j#k#w#l#w#h#l#v#h#s#k#h#g#l#h#h#h#d#g#l#g#j#h#d#j#x#d#j#h#d#w#h#r#f#l#d#h#w#g#l#h#v#h#l#h#g#f#h#
k#h#d#o#k#h#p#d#k#h#p#d#w#l#f#v#h#s#h#o#l#g#h#s#k#l#v#l#f#d#h#g#x#f#w#l#r#g#h#d#w#h#g#g#p#x#v#l#f#h#F#r#p#s#w#h#u#h#g#g#h#g#x#f#w#l#r#g#d#h#d#y#l#w#l#r#g#
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l#g#w#h#u#h#w#l#r#g#h#
#

K#r#p#h#z#r#u#n#
K#r#p#h#z#r#u#n#h#l#w#h#o#h#v#w#g#l#d#g#g#h#y#l#z#h#d#g#e#h#h#{#s#h#f#w#g#h#g#g#z#l#e#q#f#u#d#h#h#w#k#u#r#x#j#k#h#*#j#u#d#g#h#h#S#d#h#g#w#
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l#g#y#r#o#l#g#j#k#r#p#h#z#r#u#n#h#h#w#h#g#l#w#r#x#f#k#z#l#w#k#h#h#d#f#k#h#u#h#i#k#h#h#k#l#g#h#h#k#l#w#f#d#q#e#h#h#r#g#h#z#l#w#h#h#e#u#h#i#h#r#w#h#h#o#l#w#
r#u#h#h#k#r#q#h#f#d#o#h#
#

D#o#h#z#r#u#n#p#l#w#h#g#e#h#h#w#g#h#g#w#E#v#h#g#w#u#r#p#h#f#k#r#r#g#i#r#u#d#q#h#h#d#v#r#g#h#p#x#w#h#h#p#d#g#h#o#s#z#l#w#l#g#h#k#h#h#p#h#h#u#p#h#
d#u#d#j#h#g#z#l#w#k#h#h#f#o#w#u#r#p#h#d#f#k#h#u#h#D#h#q#h#u#d#o#h#s#h#d#l#g#h#w#g#h#g#w#z#l#w#h#{#f#x#h#g#h#E#v#h#g#h#v#h#u#h#h#j#l#y#h#q#h#r#h#h#d#l#
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iru#dfk#gd|#evhqw#g#z k lfk#r#erp sdwh#khlup lwqj#krp hz run#

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Uhsrw#F dgr#

Uhsrw#fdgr#buh#vzng#rxu#p hv#shu#|hdu#P lg@xdwhu#surjuh#hsrw#buh#ovr#jlyh#dfk#xdwhu#D#w
wkh#gq#r#i#kh#l#w#t#xdwhu#sdhg#w#hdfku#Frq#ihug#f#z k#eh#khg#r#g#l#v#x#w#k#h#k#l#q#N#z run#bgg#D#w#v#g#h#
d#g#r#g#h#g#w#|s#uredp #k#d#w#h#g#r#e#h#bggu#h#g#D#gg#w#r#g#d#Frq#ihug#f#z k#eh#v#k#h#g#d#g#v#h#g#h#g#
#

Vwghqw#g#j#udgh#6#^u#k#urx#jk#*#h#f#hly#l#j#D#N#g#D#f#o#w#v#z k#eh#r#g#k#h#v#w#l#j#k#D#K#r#q#r#U#r#o#

Vwghqw#z k#b#g#y#h#u#j#h#r#i#D#Q#r#k#l#j#k#u#z k#r#r#j#udgh#r#z#h#k#d#g#D#E#Q#z k#eh#r#g#k#h#K#l#j#K#r#q#r#U#r#o#

Vwghqw#z k#b#g#y#h#u#j#h#r#i#E#Q#r#k#l#j#k#u#z k#r#r#j#udgh#r#z#h#k#d#g#D#E#Q#z k#eh#r#g#k#h#K#r#q#r#U#r#o#

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Wkh#r#o#z#l#g#f#k#h#g#d#r#u#f#d#z#k#eh#v#g#g#j#udgh#6#Q#

D.#k<Q33# # F###3Q5#

D###9Q;## # F@#:#Q<#

D@##k7Q8# # G.#:8Q9#

E.#k4Q6# # G###5Q7#

E###;Q3# # G@##3Q4#

E@##9Q:# # I###Ehorz#3#

F.#;6Q8# #

#-l#g#f#h#w#l#g#b#u#d#v#k#h#r#o#z#l#g#f#r#x#g#e#h#v#g#

#####I#E#I{f#o#g#w#####V#E#V#d#w#i#d#f#w#r#|#####K#E#K#q#v#d#w#i#d#f#w#r#|#

#

Y dng lfwuldq2Vdovdwruldq#

D#w#k#h#g#g#r#i#dfk#|hdu#|E#y#dng lfwuldq#d#g#d#ovd#w#r#uldq#z k#eh#E#k#r#h#g#e#d#h#g#r#g#E#x#p#x#o#w#y#h#U#SD#h#r#p#
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Vdovdwruldq#s#x#u#r#v#h#r#q#q#|#k#d#w#g#g#v#w#g#g#h#g#k#h#l#w#k#h#u#h#x#d#w#h#u#r#i#*#j#udgh#D#w#V#E#V#h#s#k#h#g#
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Whwlgj#Surjudp #

Vwghqw#g#j#udgh#6#Q#z k#eh#D#p#l#l#w#h#g#k#h#Q#Z#HD#P#D#S#h#w#w#k#u#r#x#j#k#r#x#w#k#h#E#f#d#g#p#l#f#|hdu##W#k#h#
u#x#o#w#z k#eh#k#d#ng#z k#b#s#d#h#g#w#

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J#udgh#N#G#k#d#y#h#k#h#u#r#z#q#f#o#w#r#p# #leudu#h#v#d#g#k#d#y#h#f#f#r#w#r#k#h#N#u#x#h#Q#leudu|#r#u#D#f#f#h#u#d#h#g#U#h#g#h#
ermv#E#U#d#g#h#7#Q#k#v#h#k#h#N#u#x#h#Q#leudu|##W#k#h#N#u#x#h#Q#leudu|#v#x#o#|#E#r#p#s#x#w#u#l#h#g#D#g#E#r#m#v#b#u#h#d#v#D#
f#k#h#f#h#g#x#w#f#k#h#f#h#g#l#g#D#g#h#u#d#f#h#g#e#|#k#h#D#e#u#d#q#d#g#h#d#f#k#h#u#h#V#g#g#h#g#w#b#u#h#E#e#d#r#f#k#h#f#h#x#w#E#e#r#m#v#
d#w#h#p#h#h#r#u#z#r#Q#h#h#h#h#h#l#r#g#v#h#V#g#g#h#g#w#h#f#h#y#h#D#h#s#u#l#w#g#h#h#f#h#s#w#k#d#w#l#g#f#o#g#h#e#r#m#v#h#o#w#D#g#g#x#h#g#d#v#h#
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u#h#s#r#q#v#e#d#r#u#h#y#h#g#h#h#r#w#D#g#g#d#p#d#j#h#e#r#m#v#D#D#o#r#w#h#u#g#p#d#j#h#e#r#m#v#z k#eh#E#k#d#j#h#g#E#h#s#o#f#p#h#g#
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w#k#h#e#r#m#v#h#h#w#u#g#h#D#D#q|#w#g#g#h#g#w#k#d#y#l#j#d#g#h#y#h#g#h#e#r#m#r#i#p#r#h#k#d#g#z#h#h#v#z k#eh#r#e#h#E#e#d#r#k#v#h#
w#k#h#E#e#u#d#|#k#q#w#k#q#h#r#i#k#h#r#o#z#l#g#r#f#f#x#w#k#h#e#r#m#v#h#h#w#u#g#h#) #k#h#l#q#h#v#s#d#g#k#h#e#r#m#v#h#s#o#f#p#h#g#
i#h#) #l#q#h#b#h#s#d#g#k#h#e#r#m#v#h#s#o#f#p#h#g#s#u#f#k#d#h#g#e|#w#g#g#h#g#w#D#g#g#l#q#h#v#s#d#g#I#
#

I lhg#Wuls#

I lhg#w#uls#b#u#h#f#r#q#v#g#h#g#s#d#w#r#i#k#h#f#x#u#l#f#x#o#p# #r#i#k#h#f#k#r#r#o#E#v#k#h#|#E#r#q#w#l#e#x#w#h#g#l#h#f#w#|#r#k#h#h#d#f#k#l#g#j#r#i#
w#k#h#k#l#g#I#W#k#h#h#d#f#k#h#u#z k#b#k#h#D#s#u#r#y#d#r#i#k#h#s#u#l#f#l#s#d#D#g#g#k#h#E#r#d#g#r#i#I#g#f#w#r#q#f#o#g#h#l#g#w#uls#I#q#
d#o#f#d#h#v#f#k#l#g#h#g#b#u#h#s#h#s#d#h#g#r#u#I#l#g#w#uls#I#q#D#g#y#d#f#h#D#g#g#d#h#g#w#b#u#h#q#i#r#p#h#g#I#s#d#h#g#w#b#u#h#h#t#x#h#w#g#
w#r#f#r#r#s#h#u#h#e#|#s#u#r#y#l#g#l#g#j#h#f#h#w#d#|#p#d#h#u#d#o#D#g#2#r#u#g#r#g#d#v#r#g#r#u#k#h#w#uls#D#z#u#l#w#g#h#s#o#g#d#v#r#g#r#i#k#h#
h#y#h#g#z k#eh#h#g#w#k#r#p#h#e#h#i#r#h#k#h#g#d#h#r#i#k#h#w#uls#I#W#k#h#h#w#u#g#r#i#D#h#j#g#h#g#h#p#l#w#r#g#i#r#p#h#h#t#x#h#g#
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z#u#l#w#g#h#s#o#g#d#v#r#g#r#i#f#v#h#h#r#p# #s#d#h#g#w#D#D#q|#s#d#h#g#w#z#k#r#h#h#s#r#q#v#e#d#r#u#w#g#g#h#g#w#k#d#o#r#w#f#r#q#x#p#h#h#g#|#D#f#k#r#r#d#f#
e#h#y#h#u#j#h#q#g#h#u#d#g#|#f#l#u#x#p#w#d#g#h#v#h#
#

Sdwlqj#

#

#

Lw#h#hfnwdu|#iru#wxghqw#wr#kdyh#sdwlgj#judgh#q# 8 (#r#kh#r#r#z#lqj#xenmfw#hndv##U#h#j#l#r#q#/#hp#ru|#
U#h#g#l#j#/#p#d#w#/#f#l#h#q#f#h#/#r#f#l#d#/#w#g#l#w#/#d#q#j#x#d#j#h#/#d#u#w#/#d#u#w#/#s#k#|#v#f#d#/#h#g#x#f#w#l#r#q#/#d#g#g#p#x#v#f#l###

Dq|#w#x#h#q#w#z#k#r#g#r#h#v#q#r#w#p#h#w#k#h#h#w#d#g#g#d#g#v#e|#k#h#d#w#h#s#r#w#f#d#g#j#d#w#p#d|#e#h#h#t#x#l#h#g#r#h#s#h#d#w#k#h#l#
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e#h#f#r#q#y#h#h#g#r#k#h#s#d#h#q#w#l#q#d#f#r#q#i#h#h#q#f#z#l#w#k#h#f#k#l#g#N#h#d#f#k#h#u#v#/#d#g#g#k#h#s#u#l#f#l#s#d#d#v#r#r#q#d#v#k#h#
s#r#w#h#q#w#d#d#/#g#h#q#w#l#h#g#

E#d#g#g#
V#h#h#s#k#h#q#w#x#h#q#w#l#q#j#u#d#h#v#B#Q#/#k#d#y#h#k#h#r#s#s#r#w#q#l#w#/#r#d#w#h#q#g#e#d#g#g#q#w#x#f#w#l#r#q#f#d#w#h#w#d#w#k#h#s#x#e#d#f#
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F#k#r#l#w#
W#k#h#f#k#r#r#d#F#k#r#l#w#7#N#U#u#d#h#h#/#h#u#d#h#h#5#0#/#h#u#d#h#h#B#Q#/#z#j#h#j#x#o#u#/#i#r#u#f#k#x#u#f#k#d#g#F#k#d#s#h#h#h#y#l#f#h#w#d#o#
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d#f#f#r#u#g#l#j#r#h#s#h#u#r#q#q#h#d#y#d#l#e#l#d#w#/#d#g#g#q#w#h#w#l#

Q#d#w#l#r#q#d#k#q#l#r#u#k#r#q#r#u#/#r#f#l#w#|#Q#M#K#V##
V#w#x#h#q#w#l#q#j#u#d#h#v#B#Q#/#h#h#d#j#l#e#d#r#s#d#w#f#l#s#d#w#l#q#Q#d#w#l#r#q#d#k#q#l#r#u#k#r#q#r#u#/#r#f#l#w#|#p#h#p#e#h#u#k#l#s#l#q#Q#M#K#V#
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I#q#w#h#q#h#w#k#v#d#j#h#
V#w#x#h#q#w#h#w#h#w#h#s#k#h#q#k#d#y#h#k#h#r#s#s#r#w#q#l#w#/#r#k#v#h#f#r#p#s#x#w#h#h#f#k#q#r#r#j|#d#g#g#k#h#q#w#h#q#h#w#l#q#k#h#l#u#
l#q#w#x#f#w#l#r#q#l#z#l#w#k#l#w#r#s#s#r#w#q#l#w#/#d#w#r#f#r#p#h#w#k#h#h#s#r#q#v#e#l#d#w#/#r#k#v#h#k#h#f#r#p#s#x#w#h#h#t#x#l#s#p#h#g#w#d#g#g#k#h#
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h#{s#h#f#w#l#r#q#d#g#g#f#r#q#h#t#x#h#q#f#h#w#h#j#d#l#j#k#h#s#s#r#s#u#d#w#d#g#g#l#q#d#s#s#r#s#u#d#w#k#v#h#r#i#f#r#p#s#x#w#h#h#f#k#q#r#r#j|#q#j#
w#k#h#f#k#r#r#d#

S#k#|#v#f#d#/#h#g#x#f#w#l#r#q#
S#k#|#v#f#d#/#h#g#x#f#w#l#r#q#h#w#s#d#w#r#i#k#h#f#x#u#i#f#x#o#p#/#i#r#u#d#k#l#g#h#q#h#w#h#w#h#s#k#h#q#l#d#q#|#r#q#h#q#r#w#s#d#w#f#l#s#d#w#l#j#
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z#u#l#w#h#q#h#{f#x#v#h#

E#d#n#h#w#h#h#d#y#d#l#e#d#h#q#k#h#p#r#f#h#u#r#r#p#/#i#r#u#d#w#w#x#h#q#w#h#h#l#j#s#k#|#v#f#d#/#h#g#x#f#w#l#r#q#r#u#s#d#w#f#l#s#d#w#l#j#l#q#h#s#r#w#h#
O#r#f#n#w#h#h#x#u#l#k#h#g#h#v#q#h#h#g#h#w#r#w#x#h#q#w#l#q#j#u#d#h#v#7#Q#/#w#x#h#q#w#h#r#v#l#j#k#h#l#u#r#f#h#z#k#e#h#f#k#d#j#h#g#8#B#3#
d#g#g#l#w#x#h#g#h#h#s#o#f#h#p#h#g#w#l#d#r#h#s#h#u#r#q#d#d#r#f#n#w#h#h#s#h#p#l#w#h#g#i#r#u#k#v#h#q#f#k#r#r#d#h#h#

L#w#h#h#f#r#p#h#q#g#h#g#k#d#w#d#k#l#g#h#q#k#d#y#h#h#s#d#w#h#r#q#d#d#n#l#j#d#k#d#w#f#k#r#h#w#i#r#u#s#k#|#v#f#d#/#h#g#x#f#w#l#r#q#l#h#r#u#
w#k#h#d#h#w#/#r#i#k#h#w#x#h#q#w#h#w#x#h#q#w#z#l#w#k#r#x#w#s#s#r#s#u#d#w#h#r#r#w#h#d#z#k#e#h#r#e#h#s#h#p#l#w#h#g#r#s#d#w#f#l#s#d#w#l#q#k#h#
s#k#|#v#f#d#/#h#g#x#f#w#l#r#q#h#f#w#y#l#w#/#d#g#g#z#k#e#h#h#j#u#d#h#g#d#f#f#r#u#g#l#j#d#l#h#k#r#w#h#u#d#f#n#w#h#h#t#x#l#h#g#r#u#s#k#|#v#f#d#
h#g#x#f#w#l#r#q#f#d#w#h#w#h#k#h#h#f#o#r#w#k#h#w#p#d|#e#h#h#s#w#d#w#f#k#r#r#d#l#q#k#h#h#d#f#k#h#u#h#j#v#j#q#d#w#h#h#d#h#

V#s#h#f#d#/#h#g#x#f#w#l#r#q#
V#h#w#h#s#k#h#q#h#y#d#j#h#d#f#d#d#x#w#k#h#u#d#q#f#k#r#r#d#z#k#e#s#u#r#y#l#h#i#r#u#w#x#h#q#w#z#l#w#k#s#h#f#d#d#h#h#g#w#h#w#r#q#j#d#w#k#h#f#k#r#r#d#
l#h#e#d#h#w#p#h#w#k#r#v#h#h#h#g#v#h#w#x#h#q#w#z#k#r#v#h#h#h#g#f#d#q#r#w#e#h#p#h#w#z#k#e#h#h#f#r#p#h#q#g#h#g#i#r#u#s#o#f#h#p#h#g#w#l#q#

#

wkh#surshu#fkrro#hwlqj#rroz lqj#ydxdlrq#e|#kh#rfd#gxfdlrq#b|jqf|#

#

VHUYIFHV#

#

Krw#Oxqfk#Surjudp #

Vw#Vhshkhq#fkrro#shudw#B#Krw#Oxqfk#surjudp |##Krw#Oxqfk#z k#eh#e long#g lnhfw|#r#kh#dp l|N#Krw#
Oxqfk#ffrxqw#lq#l dw#G lnhfw#S dnhqw#bun#htx lung#r#hhs#B#edqf#lq#k l#ffrxqw#S dnhqw#z k#eh#
qrwllhg#r i#kh#edqf#lq#khl#ffrxqw#r#h#jxol#edv#l#l#b#dp l|N#e k#hd fkh# 83B3#z lkrxw#
sd|p hqw#B#dggz lfk#z k#eh#p dgh#r#u#kh#wxghqw#kqwl#k#h#e k#b#sdg|##Krw#Oxqfk#sd|p hqw#fdq#eh#p dgh#
lq#kh#V#Vhshkhq#R iilfn#dfk#fkrro#gd|##F khfn#kkrxog#eh#p dgh#sd|ed#r#k#h#V#Vhshkhq#Oxwkudq#
Fkxufk|##D q|#p rql|#hp dlq lqj#q#b#dp l|N#k#r#w#oxqfk#ffrxqw#b#wkh#gg#r i#kh#|hd#z k#r#o#y#h#r#k#h#
qh#w#|hd#z

#

H{wd#p l#m#B#ydlced#ru#hfnw#eundv#r#u#oxqfk|##Nkh#lqg lygxdd#r#w#ru#p l#m#z k#eh#g lnhfw|#dggg#r#
wkh#k#r#w#oxqfk#e k#r#q#l dw#G lnhfw###

#

Uhgxflg#oxqfk#p d|eh#ydlced#ru#dp l#h#z kr#xddd|#

#

Vwghqw#z kr#eulqj#frog#oxqfk#p xw#z#w#qg#dwz l#k#khl#fcdw#Nkh|#p d|#sufkd#h#p l#m#r#eulqj#x lfn#
exw#rgd#l#q#w#shp lwhg|## l furz dyn#bun#r#w#ydlced#r#z dup #s#r#u#f#r#m#lqg lygxdd#oxqfk#h#z

#

Z khq#B#wxghqw#l#r#d#w#B#solf#r#w#h#w#k#dq#fkrro#B#l#j#hg#r#w#urp #k#h#e dnhqw#p xw#l#n#ru#k#l#
suly#h#j#l#####

#

EIdw#r#rg#S#k#rxog#q#r#w#eh#e#urx#jk#w#l#q#r#u#p#oxqfk#k#l#l#q#foxgh#v#ez d|/P fG rqqdgv#G rp lqrv#w#f#l#

#

Fklqg#F#duh#

Fklqg#fduh#B#ydlced#k#urx#jk#V#V#Vhshkhq#N#F#k#l#q#fduh#l#q#f#P rqqd|#k#u#x#ulgd|#k#urx#j#k#r#w#k#h#|hd#/
h{f#sw#r#u#h#v#j#q#d#h#g#k#rdgd|v###

#

Nqljkw#N#S#djh#

Vw#Vhshkhq#fkrro#l#w#h#B#p rqwq|#j#z v#w#h#u#Nkh#fkrro#q#l#w#l#exw#v#B#f#r#|#r#k#h#e#g#h#w#wxghqw#l#q#dfk#
idp l|q#p#xulqj#k#h#dw#z h#n#r i#kh#p rqw#l#D#gg#w#r#q#d#f#r#l#w#h#u#ydlced#l#q#k#h#V#V#Vhshkhq#r iilfn#dgg#r#q#
wkh#l dw#G lnhfw#z hev#h#

#

Fkdshq#huylfhv#

Fkdshq#huylfhv#bun#k#h#g#h#dfk#z hgqhv#gd|#k#-3#dp |##{f#sw#r#w#r#k#h#f#k#h#g#d#z k#eh#p#w#g#l#q#k#h#Nqljkw#N#
Sdjh#r#q#k#h#fkrro#f#d#q#g#d#d#q#q#k#h#k#xufk#f#d#q#g#d#l#S dnhqw#dgg#r#w#h#u#j#x#h#w#bun#d#z d|v#z h#f#r#p h#r#
z r#u#k#l#s#z l#k#cv#

#

Wr#h#dfk#dgg#surp r#h#k#h#k#dulqj#r i#l#w#u#l#w#dgg#j#r#r#g#F kulw#d#q#w#h#z d#g#v#k#l#s#l#wxghqw#bun#j#y#h#q#r iihulqj#
hgy#r#sh#w#r#u#v#h#q#k#h#Fkdshq#huylfhv#D#q#r iihulqj#z k#eh#p#w#h#q#l#w#h#dfk#Fkdshq#huylfhv#Nk#l#r iihulqj#z k#eh#
x#h#g#r#z#s#s#r#w#d#u#r#x#p l#w#r#q#s#u#m#f#w#Nkh#h#f#l#h#q#w#r i#kh#r iihulqj#z k#eh#p#w#g#l#q#k#h#Nqljkw#N#S#djh#

#

#

Sndv#h#G uhw# rgh#ru#surshu#guhw#q#Z hgghgd|v#
#

#

G U H V V # W D Q G D U G #

Wkh#xusr#r#i#k#h#v#w#hskhq#v#gghq#G uhw#v#gghq#v#r#surygh#k#h#v#gghq#z lk#h#v#gghq#r#i#guhw#
zklfk#h#h#f#w#r#k#h#f#k#r#r#d#g#k#h#f#p p xq|w|#k#h#f#f#g#p lf#d#g#f#f#l#s#w#u#d#v#gghq#z h#k#s#k#r#g#i#Wkh#
V#gghq#G uhw#v#gghq#d#gghq#v#h#k#h#v#x#h#r#i#f#l#s#w#u#d#v#gghq#guhw#f#f#g#p lf#j#l#w#d#f#w#r#q#v#d#g#v#gghq#
v#d#h#w|#
#

Sdhgw#d#j#h#s#r#q#v#l#d#w|#
l#w#h#k#h#h#s#r#q#v#l#d#w#r#i#k#h#s#d#h#g#w#r#k#h#s#k#h#d#f#x#w|#d#g#v#d#i#q#p#s#p h#q#w#d#w#r#i#k#h#v#gghq#G uhw#
V#gghq#G#S#d#h#j#r#r#y#h#k#h#j#x#g#h#q#h#z lk#r#x#u#w#gghq#v#d#g#d#w#v#k#h#p #q#h#s#s#u#s#u#d#w#h#guhw#
#

V#f#l#s#w#u#d#v#g#G uhw##
K r#q#f#l#s#w#u#d#v#r#h#v#f#r#q#w#l#q#d#h#guhw#v#gghq#r#e#h#k#v#g#q#f#k#u#l#w#d#q#f#k#r#r#v#Wkh#D sr#w#h#S#d#x#d#q##
4#W#l#p r#w|#f#<#h#d#v#k#d#z#h#d#h#y#w#r#guhw#p r#gh#w#d#z lk#h#h#f#h#q#f|#d#g#s#u#s#u#l#w#S#i#x#u#k#h#v#d#x#d#z#u#h#w#q##
4#F#r#u#l#w#k#d#q#v#d#4<53#k#d#w#k#h#f#e#r#g|#v#d#h#p s#h#r#i#k#h#K r#q#f#s#l#u#w#z#k#r#h#q#r#x#z#k#r#p#r#x#k#d#y#h#
u#h#f#h#y#g#u#r#p#f#r#g#i#h#r#x#h#h#q#r#w#r#x#u#z#q#h#r#z#h#h#e#r#x#j#k#w#h#h#s#u#l#f#h#Wkh#h#i#r#h#f#r#q#r#u#f#r#g#z#lk#r#x#u#
e#r#g|#S#E|#h#w#d#e#k#l#q#j#k#h#v#gghq#G uhw#v#gghq#d#v#k#h#f#p l#q#l#w#d#w#r#q#v#h#w#l#q#j#s#d#p h#w#u#r#u#x#u#
v#gghq#w#r#d#g#k#h#h#r#i#Z h#j#h#v#h#r#q#w#d#q#x#u#w#gghq#w#k#l#z#d#h#q#h#w#r#i#k#h#h#d#f#k#l#j#v#r#i#k#h#K r#q#
V#f#l#s#w#u#d#v#g#r#s#u#r#p r#w#h#d#h#v#h#f#w#d#g#h#v#h#f#w#r#u#r#w#h#w#
#

D f#g#p lf#G l#w#d#f#w#r#q#v##
V#gghq#w#guhw#g#r#u#j#u#r#p h#g#q#d#s#s#u#s#u#d#w#d#p d|#d#x#h#g#l#w#d#f#w#r#q#v#q#k#h#f#d#w#r#p i#Wkh#v#gghq#G uhw#
V#gghq#d#v#h#v#j#q#h#g#r#d#p l#q#d#w#k#h#h#g#l#w#d#f#w#r#q#v#d#g#s#u#r#y#g#h#k#h#s#u#r#s#h#u#d#u#l#q#j#h#q#y#l#u#r#q#h#q#w#r#u#x#u#
v#gghq#w#i#D#s#s#u#s#u#d#w#h#guhw#d#v#r#h#d#h#f#w#r#k#h#f#p p xq|w|#k#d#z#h#h#{shfw#x#u#w#gghq#w#r#e#h#k#h#l#u#h#w#q#
d#v#shfw#r#i#k#h#l#u#y#h#w##
#

V#gghq#w#d#h#w|#
l#w#h#p s#h#d#w#h#k#d#w#h#d#h#f#k#r#r#d#v#p d#l#q#w#l#q#h#g#r#u#w#gghq#w#d#g#h#d#f#k#h#u#w#r#p h#d#w#l#f#d#w#r#i#guhw#x#f#k#d#w#
a#r#v#h#r#r#w#h#u#f#d#q#s#r#v#h#d#j#h#f#w#d#h#w|#d#d#d#g#r#u#r#k#k#h#z#h#d#h#r#i#k#h#h#d#w#l#f#d#w#d#g#k#h#v#gghq#w#d#u#r#x#g#h#
w#k#h#p i#Wkh#v#gghq#G uhw#v#gghq#d#v#h#v#j#q#h#g#r#d#p l#q#d#w#d#h#w|#k#d#d#g#v#l#q#h#guhw#z#h#u#r#u#x#u#w#gghq#w#
#

J x#g#h#q#h#r#u#w#gghq#G uhw#
Wkh#d#f#x#w|#d#g#v#d#i#r#i#v#h#h#k#h#q#H#y#d#j#h#d#f#d#d#x#w#h#u#q#f#k#x#u#f#k#d#g#f#f#k#r#r#d#k#d#y#h#w#d#e#d#k#h#g#k#h#r#o#z#l#q#j#
V#gghq#G uhw#v#gghq#d#v#

4 i#D#d#v#gghq#w#d#w#h#h#{shfw#g#r#e#h#f#d#q#f#h#d#w#q#j#r#r#g#h#s#d#u#z#l#k#r#x#w#k#r#d#v#h#d#w#h#u#l#h#g#j#h#v######
#####w#d#l#q#v#w#l#h#d#g#z#r#q#q#d#p d#q#h#u#h#p r#q#w#d#w#l#q#j#h#v#h#f#w#r#u#f#k#u#l#w#d#q#s#u#l#q#f#s#d#w#

5 i#D#d#v#gghq#w#d#w#h#h#{shfw#g#r#e#h#f#d#q#f#h#d#w#q#j#r#r#g#h#s#d#u#z#l#k#r#x#w#k#r#d#v#h#d#w#h#u#l#h#g#j#h#v######
#####h#t#x#l#h#g#r#h#h#s#d#q#w#d#u#r#x#g#h#k#h#z#d#w#

6 i#F#r#w#k#l#q#j#v#h#r#w#r#h#y#d#k#q#g#h#j#d#p h#q#w#r#u#n#l#q#q#k#h#p l#g#u#l#w#e#h#w#h#g#k#h#e#r#w#r#p#r#i#k#h#k#l#w#
d#g#k#h#r#s#r#i#k#h#s#d#q#w#2#v#l#w#h#w#l#h#y#h#g#z#k#h#k#h#d#p#v#i#k#h#v#gghq#w#d#h#d#l#h#g#l#v#d#j#k#h#w#w#d#s#
d#g#k#d#h#u#r#s#z#k#h#r#w#h#d#o#z#h#g#

7 i#V#k#r#w#d#h#h#p l#w#g#x#u#l#q#j#k#h#v#gghq#w#k#x#d#w#u#w#i#k#h#f#d#g#p lf#h#d#w#d#d#k#r#w#d#h#r#e#h#r#q#j#h#
w#d#q#k#h#h#s#r#i#k#h#v#gghq#w#l#q#j#h#w#z#k#h#d#p v#d#h#h#g#r#k#h#l#u#h#h#

8###nLw#Bgg#guhwh#d#h#r#q#j#h#k#d#k#h#s#v#r#i#k#h#w#g#h#q#w#l#q#j#h#z#k#h#q#d#p#v#d#h#k#h#g#r#k#h#l#h#
#####v#g#h#v#w#g#h#q#w#d#h#r#z#h#d#k#r#w#k#g#h#k#l#d#s#d#h#d#

9# Vwghq#w#rrw#h#p#xw#n#l#k#h#k#d#y#h#d#k#h#h#r#d#f#n#w#d#s#l#D#s#s#u#r#s#u#b#w#h#f#o#r#k#l#q#j#B#q#g#i#r#w#z#h#d#i#r#u#
Sk|v#f#d#I#g#x#f#d#w#r#q#f#o#w#h#w#B#g#2#r#u#x#w#g#r#r#u#h#f#i#w#l#w#h#t#x#l#h#g#l#

:# F#r#o#k#l#q#j#k#r#x#g#q#r#w#f#r#q#w#d#q#s#l#f#w#u#h#v#d#y#h#w#h#p#h#q#w#r#j#r#v#r#u#w#k#h#u#|#p#e#r#o#r#i#g#u#j#r#u#r#e#d#f#f#r#
f#r#p#s#d#q#l#h#v#r#f#n#j#u#r#x#s#v#r#u#w#k#h#u#q#d#s#s#u#r#s#u#b#w#h#q#w#l#h#v#h#

;# K#d#l#u#l#w#r#e#h#h#s#w#f#o#d#q#B#g#g#i#d#q#d#w#u#d#f#r#o#u#l#h#l#r#j#u#h#g#e#o#h#f#w#f#l#d#h#g#j#w#k#i#k#d#l#q#h#g#v#r#e#h#
n#h#w#r#z#k#d#w#l#w#r#x#w#r#i#k#h#h#l#h#r#i#k#h#w#g#h#q#w#B#g#g#r#h#w#r#w#s#r#w#d#l#r#s#s#l#q#h#w#h#

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p#d#h#o#s#z#k#q#r#w#e#h#d#o#r#z#h#g#l#B#g#g#w#g#h#q#w#z#k#e#h#d#v#h#g#r#r#h#p#r#y#h#l#w#h#

43# D#f#f#h#v#r#u#h#w#d#h#r#e#h#l#q#j#r#r#g#w#d#w#h#q#r#w#p#s#h#g#h#w#k#h#w#d#i#w#h#r#i#k#h#w#g#h#q#w#d#q#g#q#r#w#h#u#y#h#d#v#d#h#
g#l#w#d#f#w#r#q#r#i#k#h#f#o#w#u#r#p#l#w#k#l#h#d#p#l#q#d#w#h#w#k#h#r#o#r#z#l#q#j#

S#h#f#l#q#j#v#z#l#w#k#h#h#{f#h#w#i#r#q#r#i#h#d#s#l#h#f#l#q#j#v#q#j#l#w#v#
K#d#w#k#r#r#g#v#f#d#y#h#v#B#g#g#w#k#h#k#d#l#f#r#y#h#u#l#q#j#v#l#g#g#r#r#w#
W#d#w#r#r#v#
#

F#r#q#h#t#x#h#g#h#w#
l#w#l#w#k#h#g#x#w#h#r#i#k#h#h#f#o#w#u#r#p#h#d#f#k#h#w#r#l#q#w#u#s#u#h#w#d#q#g#p#s#d#p#h#q#w#k#h#h#j#x#l#g#h#d#q#h#v#l#w#v#w#g#h#q#w#i#r#x#g#g#l#q#
y#l#r#o#w#i#r#q#r#i#k#h#w#g#h#q#w#G#u#w#v#w#d#g#g#d#g#z#k#e#h#d#v#h#g#r#r#f#r#y#h#u#h#p#r#y#h#f#k#d#q#j#h#B#g#2#r#u#q#r#w#z#h#d#w#k#h#f#o#r#k#l#q#j#
l#w#p#q#j#v#f#k#r#r#o#d#j#d#q#l#w#k#l#w#f#w#i#r#q#p#d#l#q#f#o#g#h#w#k#h#w#d#f#k#h#h#t#x#l#h#g#j#w#k#h#s#d#h#g#w#r#e#u#l#q#j#w#r#w#f#k#r#r#o#d#f#k#d#q#j#h#r#i#
g#u#h#w#r#u#w#k#h#w#g#h#q#w#r#u#s#u#r#y#l#q#j#w#k#h#p#z#l#w#k#h#w#d#w#l#h#l#w#k#h#p#h#w#k#r#g#r#i#q#i#r#u#f#p#h#q#w#l#w#d#w#k#h#g#l#f#u#h#w#i#r#q#r#i#
w#k#h#f#o#w#u#r#p#h#d#f#k#h#u#w#k#h#w#d#f#k#h#z#k#e#h#h#u#p#l#q#h#l#h#p#g#l#f#s#d#q#d#l#q#r#w#z#k#e#h#h#q#w#k#r#p#h#i#

#

F#k#d#s#h#h#u#y#l#f#h#2#Z#h#g#q#h#g#d#l#G#u#w###
R#q#h#d#v#z#k#h#g#f#k#d#s#h#h#u#y#l#f#h#w#d#h#k#h#g#h#l#w#h#h#{s#h#f#w#g#w#k#d#w#g#h#q#w#s#r#w#d#l#w#k#h#p#s#r#w#d#q#f#h#B#g#l#j#q#l#l#f#d#q#f#h#
r#i#f#r#p#l#q#j#w#r#w#k#h#D#r#u#g#l#w#k#r#x#v#h#q#w#k#h#l#u#g#u#w#f#o#r#k#h#v#l#w#v#w#g#h#q#w#d#h#h#t#x#l#h#g#r#g#u#h#w#l#q#d#s#s#u#r#s#u#b#w#h#f#o#r#k#l#q#j#
i#r#u#f#k#d#s#h#h#u#y#l#f#h#w#k#h#z#k#e#h#h#{s#h#f#w#g#r#z#h#d#w#k#h#l#u#g#u#w#f#o#r#k#h#v#l#w#d#q#d#l#f#k#d#q#j#l#q#j#r#q#q#l#q#w#r#
d#s#s#u#r#s#u#b#w#h#j#p#f#o#r#k#h#v#i#r#u#s#k#l#v#f#d#I#g#x#f#d#w#r#q#f#o#w#h#w#R#q#f#k#d#s#h#h#d#v#w#g#h#q#w#z#k#e#h#h#d#o#r#z#h#g#r#z#h#d#u#
v#z#h#d#s#d#w#r#u#z#h#d#w#k#l#w#l#w#k#d#w#f#k#r#w#h#g#u#h#w#k#r#w#d#h#d#o#r#z#h#g#p#x#u#l#q#j#w#k#h#^wl#B#g#g#^w#z#x#d#u#h#w#h#o#k#l#w#h#
r#u#h#d#q#v#l#i#f#o#r#k#l#q#j#h#v#x#h#w#i#r#q#d#e#d#h#s#d#d#h#f#k#h#f#z#l#w#l#r#x#u#f#k#l#q#l#w#h#d#f#k#h#w#r#h#h#l#l#w#h#v#i#f#h#s#w#d#e#d#h#i#r#u#h#
d#o#r#z#l#q#j#w#k#h#p#r#z#h#d#w#h#w#r#f#k#r#r#o#d#l#w#g#h#q#w#g#r#q#r#w#z#h#d#s#u#r#s#u#b#w#l#h#w#r#w#f#k#r#r#o#d#q#f#k#d#s#h#h#d#v#h#s#k#r#q#h#
f#d#z#k#e#h#p#d#g#h#k#r#p#h#B#g#g#s#d#h#g#w#z#k#e#h#h#{s#h#f#w#g#r#e#u#l#q#j#h#f#k#d#q#j#h#r#i#f#o#r#k#h#v#i#r#u#w#k#h#l#h#f#k#l#q#l#h#
#

I#h#g#h#w#u#l#s#v#B#g#g#I#{w#d#f#x#u#l#f#x#o#u#d#f#w#y#l#w#h#w#
D#v#l#h#g#h#w#u#l#s#v#B#g#g#h#{w#d#f#x#u#l#f#x#o#u#d#f#w#y#l#w#h#w#d#h#f#r#q#v#i#g#h#g#r#z#h#d#q#h#{w#q#v#i#r#q#r#i#k#h#f#o#w#u#r#p#h#l#w#h#h#{s#h#f#w#g#
w#k#d#w#g#h#q#w#z#k#e#p#d#l#q#w#d#q#w#k#h#w#g#h#q#w#G#u#w#v#w#d#g#g#d#g#i#r#u#w#k#h#d#f#w#y#l#w#h#w#h#I#{f#h#w#i#r#q#v#z#k#e#h#h#s#h#l#l#f#d#o#l#
d#g#r#x#q#f#h#g#e#l#k#h#f#o#w#u#r#p#h#d#f#k#h#i#

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Z HOOO HVV\$SR OLF \ #

#

Vw#Vwshkhq#Dxwkhudq#Fkrrd#wulyh#wr#Frqwilexw#wr#wkh#jhgudq#z hœhlgj/# hqwd#khdok/#sk |vifd#dgg#
dndq#lqj#de#lw#r#i#d#wxghq#w#r#Vwshkhq#xssruw#z hœhlgj#wj#rrg#qpxulwlrq#dgg#hnxdu#sk |vifd#d#fwylw#
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rxu#Fkrrd#Frqwilexw#wr#wkh#khdok#r#i#k#lguhq#i#p suryhg#khdok#q#fuhd#v#wxghq#w#shuirp d#f#s#r#wgwd#
#

L1 Vfkrrd#Q xwulwlrq#2K hdo#k |#D#lhw|d#v#2Sk |vifd#d#fwylw|#

Vw#Vwshkhq#k#d#v#grswg#wkh#r#orz lqj#qpxulwlrq#dgg#d#lhw|d#j#x#ghd#qhv#

- Surylg#d#Frp sukhqv#v#h#d#q#lqj#qylurqp hq#w#r#u#ghy#h#rs#lqj#dgg#s#u#f#w#l#q#j#d#i#h#r#q#j#
z hœhlgj#w#r#i#k#h#q#y#l#u#r#q#p hq#w#z k#q#f#o#g#h#g#x#f#w#l#r#q#d#r#s#s#r#w#q#w#l#w#r#u#w#x#g#h#q#w#q#j#q#x#u#l#w#l#r#q#
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- Surylg#h#wxghq#w#d#f#h#w#wr#d#g#h#t#x#d#w#dgg#khdok |#rrg#Fkr#l#f#w#wr#q#w#f#k#h#g#x#d#g#Fkrrd#q#d#v#d#w#
u#d#v#r#q#d#e#d#s#u#l#f#h#w#
- Hqvxu#k#d#w#r#r#g#d#v#2#s#d#w#l#w#d#h#r#w#k#h#g#j#x#u#l#q#j#r#x#u#w#k#d#w#z k#f#r#q#i#d#f#w#z l#w#k#h#b#x#q#f#k#
s#u#r#j#u#p#i#
- Vxssruw#dgg#surp rwr#sursh#j#l#w#d#i#k#d#e#l#w#i#D#o#i#rrg#v#d#y#d#l#e#d#s#u#l#r#u#w#r#w#k#h#w#d#w#r#i#k#h#
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w#d#q#d#u#p#v#
- Vfkrrd#surj#u#p#v#z k#q#r#w#j#h#s#h#q#r#q#h#y#h#q#x#h#u#r#p#k#l#j#k#d#w#r#z#j#q#x#u#l#w#l#r#q#w#i#rrg#v#i#
- Vfkrrd#rrg#h#y#l#f#h#z k#f#r#p#s#o#z#l#w#k#h#k#h#d#o#k|#d#l#h#w|d#v#s#r#d#f|#r#h#l#q#i#r#u#f#h#p#h#w#d#j#h#w#d#e#r#x#w#
khdok|#d#w#l#q#j#dgg#w#r#h#g#w#u#h#w#k#d#w#d#o#i#rrg#v#i#i#h#h#g#surp rwr#j#rrg#qpxulwlrq#dgg#Frqwilexw#w#
w#r#w#k#h#ghy#h#r#s#p#h#q#w#r#i#d#i#h#r#q#j#/#khdok|#d#w#l#q#j#k#d#e#l#w#i#

#

Vw#Vwshkhq#k#d#v#grswg#wkh#r#orz lqj#sk |vifd#d#fwylw|#j#x#ghd#qhv#

- D#o#wxghq#w#z k#f#h#f#h#y#h#z#h#n#o#s#k |vifd#d#h#g#x#f#w#l#r#q#dgg#2#r#u#d#fwylw#i#
- D#o#wxghq#w#z k#k#d#y#h#d#w#d#w#53#p#l#q#x#w#l#2#g#d|#r#i#x#s#h#y#l#h#g#h#f#h#w#s#u#h#h#u#e#d#o#x#w#g#r#r#w#/#/#
#####q#x#u#l#q#j#z#k#l#f#k#w#k#h#v#f#k#r#r#q#z#k#q#f#r#x#u#d#j#h#p#r#g#h#u#d#w#w#r#y#l#j#r#u#r#x#v#s#k |vifd#d#fwylw|#h#u#e#d#o#d#q#g#/#
#####k#u#r#x#j#k#w#k#h#s#u#r#y#l#w#l#r#q#r#i#s#d#f#h#t#x#l#s#p#h#q#w#i#
- Vfkrrd#h#d#f#k#h#w#z k#q#l#f#r#x#u#d#j#h#{w#q#g#h#g#s#h#u#l#g#v#w#z#r#u#p#r#u#k#r#x#w#w#r#i#q#d#f#w#l#w#i#q#w#k#h#/#/#/#
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- Vwghq#w#z k#e#h#p#d#g#h#z#d#h#r#i#r#f#d#s#r#w#l#q#j#s#s#r#w#q#w#l#w#w#k#u#r#x#j#k#r#x#u#v#f#k#r#r#d#q#g#q#r#x#u#/#/#
#####d#h#d#w#r#v#j#q#s#s#r#u#d#v#w#k#h|#d#h#d#e#d#i#
- E#h#i#r#h#d#q#d#i#w#v#f#k#r#r#d#k#l#q#f#d#h#d#q#g#h#q#u#l#f#p#h#q#w#s#u#r#j#u#p#v#z k#s#u#r#y#l#g#h#w#q#f#r#x#u#d#j#h#
y#h#u#e#d#o#d#q#g#k#u#r#x#j#k#s#u#r#y#l#w#l#r#q#r#i#s#d#f#h#t#x#l#s#p#h#q#w#d#q#d#f#w#l#w#h#w#j#q#d#d#s#h#u#l#g#v#r#u#/#/#/#/#
p#r#g#h#u#d#w#w#r#y#l#j#r#u#r#x#v#s#k |vifd#d#fwylw|#r#u#d#o#s#d#w#l#s#d#q#w#i#
- Vw#Vwshkhq#z k#d#v#w#w#d#q#r#w#k#h#h#{w#q#w#k#d#w#w#s#r#w#l#e#d#h#p#d#h#h#h#g#h#g#p#s#u#r#y#p#h#q#w#w#r#/#/#/#
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#####i#i#r#w#i#
- Sk |vifd#d#h#g#x#f#w#l#r#q#dgg#k#h#d#o#k#f#x#u#l#f#x#o#p#h#d#f#k#h#w#k#l#q#h#q#w#k#h#p#s#r#w#d#q#f#h#r#i#s#k |vifd#d#/#/#/#/#
h#{h#u#l#h#d#q#g#h#{s#r#v#w#k#h#w#x#g#h#q#w#w#r#z#l#g#h#y#d#u#l#w#r#i#s#k |vifd#d#fwylw#w#r#w#k#d#w#w#x#g#h#q#w#
g#h#y#h#r#s#w#k#h#q#r#z#d#j#h#d#q#g#n#l#w#w#r#e#h#s#k |vifd#d#d#f#w#l#w#r#u#d#h#i#

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Vw#Vwshkhq#k#d#v#grswg#wkh#r#orz lqj#dgg#w#l#w#l#r#q#d#Fkrrd#e#d#h#g#j#x#ghd#qhv#j#h#v#j#q#h#w#r#s#u#r#p#r#w#z#hœhlgj#w#

- Vw#Vwshkhq#z k#s#u#r#y#l#g#h#w#d#d#q#/#d#h#/#q#r#|d#e#d#p#h#d#h#q#y#l#u#r#q#p hq#w#r#u#w#x#g#h#q#w#d#q#g#w#d#i#i#

#

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- Vw#Wshkhq#z k#surylgh#qrxjk#sdfh#bqg#huyqj#dhd#wr#hqvun#d#wkgq#w#duly#h#v##
#####v#krrc#p h#d#p hv#z lk#p l#p xp #z d#p hv#
- Vw#Wshkhq#z k#surylgh#gulqnlqj#rxqwdlqv#z#wkgq#w#fdq#gulqn#z dhu#d#p hdb#bqg##
#####k#urx#j#rx#v#k#h#p#d|#
- Vw#Wshkhq#z k#q#frxudjh#sdw#f#sd#w#r#q#l#k#h#v#k#r#r#d#x#q#f#k#s#ur#j#d#p #b#q#g#h#q#w#l#|#f#k#l#g#h#q#
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- Vw#Wshkhq#z k#surylgh#b#ht#x#d#h#p#h#r#u#w#k#g#q#w#r#d#v#x#q#f#k#q#d#h#d#h#g#d#p#r#v#s#k#h#h#
• Vw#Wshkhq#z k#surylgh#x#q#f#k#d#v#h#d#v#k#h#p#l#g#d#r#i#h#k#h#p#d#v#s#r#w#l#e#d#h#
• Vw#Wshkhq#z k#s#r#k#l#e#l#w#k#h#v#h#r#i#r#r#g#d#v#d#s#x#q#l#k#p#h#q#w#q#f#k#r#r#d#
• Vw#Wshkhq#z k#surylgh#r#q#j#r#l#q#j#s#u#r#i#h#w#r#q#d#v#d#l#q#l#q#j#r#u#i#r#r#g#h#u#y#l#f#h#w#d#i#b#q#g#w#d#f#k#h#u#l#q#
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• X#v#h#r#i#h#x#w#r#r#u#s#d#|#j#u#r#q#g#h#t#x#l#s#p#h#q#w#v#p#y#d#l#e#d#h#d#h#u#w#f#k#r#r#d#k#r#x#u#b#q#g#r#q#k#h#z#h#h#q#g#v#
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II1 Q xwulwlrq#j x.lghdqhv#

Vw#Wshkhq#h#q#f#r#x#u#d#j#h#v#h#r#r#g#h#q#x#w#l#w#r#q#h#q#h#d#f#k#h#u#h#w#k#g#h#q#w#h#b#q#g#h#s#d#h#q#w#h#

Irrg#h#p#v#z#k#e#r#v#h#y#h#k#h#r#o#r#z#l#q#j#x#l#g#h#d#q#h#v#h#

- Surylgh#i#r#r#g#r#s#w#l#w#r#q#w#k#d#v#h#z#z#q#d#w#f#d#r#u#l#w#h#b#q#g#b#g#g#h#g#x#j#d#w#h#
- I#w#h#h#r#j#q#l#h#g#k#d#v#k#h#h#p#d#|#e#h#s#h#f#d#r#f#f#d#w#r#q#z#k#h#q#k#h#s#u#l#q#f#s#d#p#d#|#d#o#r#z#h#v#k#r#r#d#
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- W#k#h#h#q#g#l#q#j#d#h#r#i#r#g#d#r#u#d#w#l#f#d#o#z#h#h#w#h#g#h#g#u#l#q#m#v#z#k#e#h#s#u#r#k#l#e#l#w#g#h#q#x#u#l#q#j#k#h#
v#k#r#r#d#
#####g#d#|#
- W#k#h#h#q#g#l#q#j#r#i#f#d#g#|#z#k#e#r#w#e#h#s#h#p#l#w#g#h#
- Q#r#q#h#q#g#l#q#j#d#h#r#i#f#d#g#|#z#k#e#h#s#h#p#l#w#g#h#d#h#u#5#3#5#P#r#q#h#u#l#g#d#v#r#q#d#|#
- F#d#g#|#h#g#h#i#l#q#h#g#d#v#d#q#|#h#p#h#k#d#v#f#r#q#w#d#l#q#x#j#d#h#l#q#f#o#g#l#q#j#e#u#r#z#q#x#j#d#h#z#h#h#w#h#q#h#u#h#v#u#s#h#
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- D#o#h#x#q#g#u#l#q#j#s#u#m#i#f#w#h#u#h#q#f#r#x#u#d#j#h#g#h#r#p#h#h#w#k#h#v#k#r#r#d#h#q#x#w#l#w#r#q#d#h#w#d#g#g#d#g#v#b#q#g#p#x#w#h#
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- I#w#p#v#h#r#o#g#p#x#w#q#r#w#l#w#h#u#h#z#l#w#k#h#v#k#r#r#d#x#q#f#k#s#u#r#j#d#p#h#
- W#h#d#f#k#h#u#h#h#q#f#r#x#u#d#j#h#g#h#r#f#r#q#v#l#h#u#h#r#q#i#r#r#g#h#p#v#h#v#h#d#f#k#h#u#h#w#k#g#h#q#w#h#q#f#h#q#w#y#h#v#h#i#h#
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- F#r#q#f#h#w#r#q#h#p#v#h#r#o#g#p#x#w#q#h#r#i#h#k#r#r#d#k#r#x#u#h#u#h#q#f#r#x#u#d#j#h#g#h#r#f#r#p#s#d#z#l#w#h#q#x#w#l#w#r#q#d#h#
#####h#j#x#l#g#h#d#q#h#v#h#

#

F R O W D J I R X V G I V H D V H S R O I F \ #

#

S#d#h#q#w#k#r#x#g#h#r#w#e#u#l#q#j#d#h#r#i#f#d#g#h#z#k#e#h#s#h#p#l#w#g#h#d#h#u#5#3#5#P#r#q#h#u#l#g#d#v#r#q#d#|#

#

#

nhhs#kh#fk#lg#k#rp h#i#kh2vkh#k#rz#v#bq|#r#i#kh#r#øz#lg#j#v#p swrp v#
• D #hp shudxuh#i#33#l#ghjuhv#r#k#ljkhu#h#hiru#h#wxu#lg#j#w#k#rrø#k#h#k#l#g#k#r#x#g#k#d#h#d#
#####gru#p d#hp shudxuh#k#rxw#p hg#l#f#w#l#r#g#i#r#u#57#k#rxu#h#
• K dv#y#p l#wg#z#l#k#l#g#k#h#ø#w#45#k#rxu#
• K dv#k#d#g#p ru#k#k#d#g#5#z#d#w#l#w#w#rø#z#l#k#l#g#d#45#k#rxu#s#h#u#l#g#s#u#h#f#g#l#g#j#k#h#k#r#rø#d#l#
• K dv#d#g#k#q#h#s#h#f#w#g#d#v#k#r#u#f#r#g#g#l#w#r#g#k#d#p d|#e#h#f#r#g#w#d#j#l#r#x#v#
• K dv#g#u#l#q#d#j#h#i#u#p #h#l#h#r#u#d#w#
• K dv#d#f#r#p p xq#l#f#d#e#d#g#j#h#d#h#
• K dv#bq|#r#w#k#h#k#q#x#v#d#v#p swrp v#
D f#f#r#g#l#g#j#r#w#d#w#h#j#x#ø#w#l#r#q#v#q#r#f#k#l#g#p d|#e#h#d#p l#w#g#r#u#s#h#p l#w#g#r#h#p d#l#g#d#w#k#r#rø#d#i#k#h2vkh#k#rz#v#
v#l#q#v#r#i#bq|#f#r#p p xq#l#f#d#e#d#g#j#h#d#h#d#d#ø#s#d#h#g#w#z#l#ø#e#h#g#r#w#l#l#g#r#i#d#h#s#r#w#g#f#d#h#r#i#f#r#p p xq#l#f#d#e#d#g#j#h#d#h#
l#g#v#k#r#rø###
* Dq|#k#l#g#z#k#r#k#h#k#d#e#v#q#w#p ru#k#k#d#g#5#f#r#q#v#f#w#y#h#g#d#v#p x#w#k#d#h#d#i#g#r#w#i#u#p #k#h#l#g#r#f#w#u#e#h#i#r#u#e#h#l#g#j#
u#d#g#p l#w#g#l#

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G I V F I S O I Q H #

G l#v#f#l#s#d#q#h#J x#l#g#h#q#h#v#
l#g#h#d#f#k#l#g#j#d#g#g#j#x#l#g#l#g#j#x#u#w#g#h#g#w#l#g#d#y#l#g#j#d#y#h#v#d#U r#g#v#e#d#s#w#h#g#d#g#g#h#g#h#p h#g#f#k#l#g#u#q#z#h#h#d#l#h#
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È#q#r#w#k#h#j#r#r#g#i#z#d#q#w#r#g#r#q#r#w#k#h#h#y#l#d#h#g#r#q#r#w#z#d#q#w#r#g#r#U#w#l#h#h#s#r#q#r#l#g#j#i#s#U r#p d#q#w#4<,#k#h#
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41 X vlqj#dexvlyh#ru#xojdu#dqjxdjh#k#h#hfrqg#F' rp p dqgp hqw#
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71 Y huedd#ru#sk |vfd#ljkwlqj#k#h#l liwk#F' rp p dqgp hqw#
81 Iqdssursulwh#h{xdd#ehkdylru#k#h#l{wk#F' rp p dqgp hqw#
91 Y dqgdap #ru#wddqj#k#h#h/hyhwk#F' rp p dqgp hqw#
:1 O |lqj#k#h#l ljkwk#F' rp p dqgp hqw#
;1 F khdwqj#k#h#h/hyhwk#dqg#l ljkwk#F' rp p dqgp hqw#
<1 Q rq@qkhuqfhw#wr#E uhw#vwdqgdug#ru#D wkdwif#F' rgh#
431 Dwhqgdqfhw#lrowlrq#w#K qh{fxvng#Evhqfhw#dqg#duglhw#
441 Dq|#rwhu#g|vuxswlyh/#kdup ixo#ru#qdssursulwh#ehkdylru#

Dqwl@x@lqj#F xlgdqhw#
Vw#vshkhq#ehdnyh#q#k#h#z rugv#r#i#P dwkhz #58=73#q#z klfk#xu#rug#mrv#v#dlg/#E#h#o#| rx#k#h#uxw#/
zkdnyh#|rx#g#ru#q#h#r#k#h#d#w#r#i#k#h#h#eurkhu#r#i#p |q#h#|rx#g|g#ru#p h#D#D v#x#fk/#v#v#vshkhq#d#w#
dgrswg#dq#dqwl@x@lqj#surjud #E#s#rdf|#q#z klfk#ndfkhuw/#sdhqw/#dqg#wxghqw#z run#wr#jhwkhu#wr#F#xue#
ex@lqj#q#x#u#fkrrd#

Ohyd###
Q xldqfhw#ehkdylru##Ehkdylru#z khuh#k#h#wxghqw#dfw#z lkrxw#s@qqlqj#ru#lqhwqwrq#wr#fdxvh#d#p |gru#
glwudfwlrq#g|vwxuedqfhw#g|vxdqfhw#ru#k#h#hnh#
Frqvtxhqfhw#wk#h#ndfkhu#jlyh#h#h#huedd#hsulp dqg#wr#k#h#wxghqw#wk#h#dfwlrq#p d|#dwr#q#foxgh#k#h#r#wr#
vshflilf#sulyd#j#v#dqg#h#h#huedd#ru#z ulwhq#Erp p xq|fdwlrq#wr#k#h#sdhqw#
Ohyd#5#
Iqhwqwrq#dqg|qjudfwlrq#Ehkdylru#z klfk#h#h#shflilfd@|#@dqg#ru#lqhwqgh#wr#g|vuxsw#g|vudfw/#Edxvh#p |gru#
gdp djh#ru#k#dup #ru#k#h#hnh#ru#hshdwng#g|vxdqfhw#ehkdylru#
Frqvtxhqfhw#wk#h#ndfkhu#z k@p dnh#g|vhwfw#Frqwdfw#z lkr#k#h#sdhqw#dqg#k#h#wxghqw#z k@h#fhlyh#ixwkuh#
glvflsdqdu|#fwlrq#d#wk#h#g|vfwlrq#r#i#k#h#ndfkhu#

Ohyd#6#
P ddflrxv#dfwlrq###Ehkdylru#z khuh#k#h#wxghqw#s@q#dqg#lqhwqg#wr#k#xw#ru#k#dup #k#h#l#q#h#l#keru#ru#
hgy|urqp hqw#ru#hshdwng#q#wqwrq#dqg|qjudfwlrq#ru#g|vxdqfhw#ehkdylru#
Frqvtxhqfhw#D#Frqihuhqfhw#z k@eh#k#h#g#z lkr#k#h#wxghqw#sdhqw#wndfkhu#dqg#sulqflsd#wr#g|vfxw#wk#h#
wxghqw#ehkdylru#dqg#ssursulwh#Frqvtxhqfhw#Wk#h#Frqvtxhqfhw#z k@hnh#|q#foxgh#d#ghwqwrq#ru#
vxshqwrq/#dqg#d#grv@wlrq#q#k#h#wxghqw#shup dqhw#h#frugv#
Ohyd#7#
H{whp h#ru#F kurq|f#lrowlrq#Ehkdylru#z khuh#k#h#wxghqw#s@q#ru#lqhwqg#zjq|lilfdq#k#xw#ru#k#dup #r#wk#h#l#
q#h#l#keru#ru#hgy|urqp hqw#Erp p lw#u#whp sw#wr#Erp p l@h#jda#dfw#ru#E kurq|fd@|#hshdw#p ddflrxv#dfwlrq#
#

lqwhqwrqdd#qjdfwlrqv/#ru#pxldqf#ehkdylruw#

F rqrhtxhqfnw#Wkh#sulqfisd#z kqgrwll|Wkh#sdhqw#dqg#E rdug#r#Hgxfdwlrq#r#Wkh#qjdfwlrq###Sureded#
frqrhtxhqfn#p d|#qfoxgh#h#xvshqvlrq#ru#{sxovlrq#
#

Q xldqf#whp v#

X qd#w#kwhuz l#h#q#w#f#w#g#e|#k#h#f#o#w#r#p#h#d#f#k#h#s#h#w#r#q#d#h#p#v#z#f#k#d#v#r#v#/#x#p#/#r#g#/#g#u#l#q#/#
shurqdd#h#f#w#r#q#l#f#h#y#l#f#n#l#h#f#n#s#k#r#q#h#/#S#r#g#/#d#q|#p#x#v#f#h#f#k#q#r#r#j#/#w#f#l#/#d#q#/#d#q|#r#k#h#u#h#p#v#h#h#p#h#g#
e|#k#h#h#d#f#k#h#r#h#q#w#h#h#h#z#l#k#k#h#h#d#q#l#q#j#q#y#l#r#q#p#h#q#w#r#i#k#h#f#o#w#r#p#h#d#h#p#r#w#r#e#h#e#u#r#x#j#k#w#l#q#w#k#h#
f#o#w#r#p#h#d#h#p#r#w#r#e#h#e#u#r#x#j#k#w#l#q#w#k#h#
f#o#w#r#p#h#d#h#p#r#w#r#e#h#e#u#r#x#j#k#w#l#q#w#k#h#
v#f#k#r#r#o#d|#z#k#h#g#k#h#z#k#e#h#h#w#x#q#h#g#r#k#h#w#x#g#h#g#q#r#u#g#h#w#r#e#h#h#d#h#q#k#r#p#h###U#h#s#h#d#w#g#k#v#r#i#p#x#l#d#q#f#h#
w#p#v#p#d|#h#x#o#/#q#x#u#k#h#d#f#w#r#q#d#v#x#w#d#q#h#g#q#k#h#g#l#f#l#s#d#q#h#s#r#d#f|#d#e#r#y#h#
#

H {sxovlrq#

J r#g#k#d#/#j#l#h#q#d#k#r#x#u#w#x#g#h#g#w#f#h#w#d#l#q#d#d#q#w#d#q#g#d#e#l#d#w#l#v#K#h#l#j#k#w#i#x#o#d#k#h#g#h#{shfw#k#h#w#x#g#h#g#w#r#k#v#h#
w#k#h#l#d#d#q#w#d#q#g#K#h#e#d#w#h#w#k#h#l#h#i#r#u#w#h#h#q#d#y#d#x#d#w#l#q#j#h#w#x#g#h#g#w#s#u#r#j#u#w#h#w#h#d#h#w#d#l#q#d#d#l#r#d#v#n#4#d#h#
w#k#h#w#x#g#h#g#w#k#v#l#q#j#k#l#v#r#k#h#u#d#d#q#w#d#v#k#h#k#r#x#o#d#h#5#d#v#k#h#w#x#g#h#g#w#q#w#h#h#u#l#q#j#z#l#k#k#h#g#x#f#d#w#r#q#r#i#
w#k#h#w#k#h#w#x#g#h#g#w#h#
#

l#p#d|#e#h#h#f#h#w#d#l|#q#d#j#k#w#r#i#k#h#d#e#r#y#h#k#d#w#d#f#k#l#g#e#h#j#l#h#q#j#h#w#q#w#r#q#w#x#v#h#q#v#l#r#q#w#r#u#h#y#h#q#d#q#
h#{sxovlrq#h#u#p#r#x#u#f#k#r#r#o#d#S#r#w#l#e#d#f#r#g#l#w#r#q#w#r#u#k#h#h#w#d#w#r#q#w#q#f#o#x#g#h#

- 41 V#h#h#h#r#u#h#s#h#d#w#g#q#w#d#q#f#n#r#i#j#l#f#l#s#d#q#h#s#u#r#e#d#p#v#h#
 - 5# U#h#s#h#d#w#g#q#w#d#q#f#n#r#i#h#i#x#v#d#w#r#f#r#p#s#d#w#h#d#w#l#j#q#h#g#d#f#w#y#l#w#h#v#h#
 - 61 U#h#s#h#d#w#g#q#w#d#q#f#n#r#i#h#i#x#v#d#w#r#f#r#o#z#f#k#r#r#o#d#f#l#v#d#v#h#w#g#r#z#q#e|#k#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#
 - 7# U#h#s#h#d#w#g#h#f#h#l#s#w#r#i#j#h#w#q#w#r#q#w#h#
 - 81 l#q#w#h#q#w#r#q#d#d#h#w#x#f#w#r#q#r#i#f#k#r#r#o#d#s#u#r#s#w#l#h#
 - 9# O#d#f#n#r#i#s#d#h#q#w#f#r#r#s#w#d#w#r#q#q#f#k#r#r#o#d#d#q#g#f#k#x#u#f#k#h#o#w#h#g#s#r#d#f#l#v#d#d#q#g#j#x#l#g#h#d#q#h#v#h#
- :### X#v#j#h#r#u#s#d#w#l#f#l#s#d#w#r#q#q#d#h#j#d#d#f#w#y#l#w#h#
#

Q r#w#x#g#h#g#w#d#q#e#h#h#{sho#g#h#u#p#r#x#u#f#k#r#r#o#d#f#h#s#w#e|#d#f#w#r#q#r#i#k#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#W#k#h#r#o#r#z#l#q#j#d#h#
w#h#s#w#h#r#o#r#z#h#g#h#r#u#f#k#r#r#o#d#h#{sxovlrq#

- 41 W#h#d#f#k#h#u#s#d#h#q#w#f#r#q#w#x#o#d#w#r#q#h#
 - 5# W#h#d#f#k#h#u#s#u#l#q#f#l#s#d#h#f#r#q#w#x#o#d#w#r#q#h#
 - 61 E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#k#d#l#p#d#q#h#v#r#w#i#l#h#g#r#i#s#r#w#l#e#d#h#{sxovlrq#h#
 - 7# Q#r#w#i#l#f#d#w#r#q#h#u#p#r#f#k#r#r#o#d#k#d#w#s#r#w#l#e#d#h#{sxovlrq#p#d|#r#f#f#x#u#h#
 - 81 Q#r#w#i#l#f#d#w#r#q#h#u#p#r#f#k#r#r#o#d#z#k#h#g#k#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#k#d#f#w#r#q#s#r#w#l#e#d#h#{sxovlrq#h#
 - 9# U#h#f#r#p#h#g#g#d#w#r#q#e|#h#d#f#k#h#u#d#q#g#s#u#l#q#f#l#s#d#h#r#u#h#{sxovlrq#h#
- :1 D#f#w#r#q#d#h#q#e|#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#h#{sxovlrq#h#S#d#h#q#w#d#h#s#u#h#q#w#r#h#j#l#f#x#w#h#{sxovlrq#l#
;# D#s#s#h#d#d#q#d#f#w#r#q#e|#s#d#h#q#w#d#h#d#o#w#h#p#h#w#l#q#j#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#u#d#w#p#h#w#l#q#j#z#k#h#g#h#{sxovlrq#h#
r#f#f#x#u#h#

Q r#h#h#w#h#s#w#p#/#/#d#q#g#/#f#r#x#o#g#/#f#f#x#u#h#w#k#h#d#p#h#p#h#w#l#q#j#h#

U#h#d#p#l#w#r#q#h#

W#k#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#i#v#h#w#h#s#k#h#g#z#k#h#w#h#p#l#q#h#z#k#h#w#h#d#q#h#{sho#g#w#x#g#h#g#w#r#e#h#h#d#p#l#w#h#g#r#r#x#u#
v#f#k#r#r#o#d#W#k#h#s#d#h#q#w#r#u#h#h#h#j#x#o#l#f#k#h#g#x#d#g#e#r#d#u#g#p#h#w#l#q#j#p#x#w#p#d#h#s#r#w#l#e#d#h#s#s#d#f#d#w#r#q#h#r#u#h#d#p#l#w#r#q#h#
d#q#g#h#d#p#l#w#d#q#f#h#p#d|#e#h#h#w#k#h#u#r#q#h#s#h#p#d#q#h#w#r#u#h#h#d#d#e#d#v#h#w#k#h#g#l#f#h#w#r#q#r#i#k#h#E#r#d#u#g#r#i#H#g#x#f#d#w#r#q#h#

#

Z#h#d#s#r#q#w#h#h#h#

D#H#G#H#I#Q#I#W#I#R#Q#V#h#

4#H#G#d#q#j#h#u#r#x#v#z#h#d#s#r#q#q#f#o#x#g#h#d#q|#z#h#d#s#r#q#h#i#l#q#h#g#q#w#d#w#h#w#d#w#k#h#7;193#q#f#o#x#g#l#q#j#d#q|#h#l#h#d#p#h#h#
z#k#h#w#k#h#u#r#d#g#h#g#r#u#k#q#d#g#h#g#d#q|#h#d#f#w#l#f#z#h#d#s#r#q#r#u#w#x#g#j#x#q#e#u#d#w#h#q#x#f#n#d#w#d#q#g#d#u#r#x#v#z#h#d#s#r#q#w#h#
d#w#r#f#d#w#g#z#l#k#p#d#w#d#d#d#u#w#h#G#d#q#j#h#u#r#x#v#z#h#d#s#r#q#d#w#r#q#f#o#x#g#h#d#q|#E#h#s#h#w#h#r#u#h#l#j#x#q#d#q|######
#q#l#h#z#l#k#k#h#e#o#g#h#r#s#h#g#d#q|#f#u#r#w#e#r#z#d#q|#e#r#z#z#l#k#k#x#q#w#l#q#j#d#u#r#z#v#d#q#g#d#q|#h#w#p#z#k#l#f#k#j#l#y#h#w#k#h#
#s#s#h#d#d#q#f#h#r#i#e#h#l#q#j#h#g#d#q#j#h#u#r#x#v#z#h#d#s#r#q#h#

#

#

#

#E 1##JHJ X ODWIR Q V#

#####1#Q r#wxghqw#wdiip hp ehu#ruy#lvwru#kdo#eulgj#dq |#gdqjhurxv#z hdsrq#rqrw#khh#fkrrd#sup lvh###
z lkrxw#khh#kxwkrul#dwrq#r#khh#subq#fslsd#

#####5#Wkh#rqd#n{fhswrq#w#p xp ehu#l#beryh#h#dq |#olz #nqirufnp hqw#riilfnu#f#wlqj#q#dq#riilfbd#fdsdflw#
dqg2ru#fdu|lqj#d#z hdsrq#h#tx.lhg#e|#.lv2khu#ghsduw hqw#xdm#

#####6#Wkh#subq#fslsd#p d|#kxwkrul#h#gdqjhurxv#z hdsrq#w#r#eh#eurxjkw#rqrw#khh#fkrrd#sup lvh#rqd#iru#
yddq#gx#f#wlq#d#s#x#s#r#h#v######

#####7#D q|#wxghqw#z kr#eulgj#v#dq|#kqdxwkrul#hg#gdqjhurxv#z hdsrq#rqrw#khh#fkrrd#sup lvh#kdo#eh#
#####h#huhg#w#khh#E#rdg#r#i#I#x#f#wlq#r#ru#h#{sxo#r#q#d#g#g#k#d#o#v#r#e#h#h#huhg#w#khh#K#r#ul#fr#q#s#rd#f#h###
G hsdup hqw#iru#y#l#r#wl#r#q#r#i#w#d#w#o#z#i#

#####8#D q|#wdiip hp ehu#z kr#eulgj#v#dq|#kqdxwkrul#hg#gdqjhurxv#z hdsrq#rqrw#khh#fkrrd#sup lvh#kdo#eh#
eh#h#huhg#w#khh#K#r#ul#fr#q#s#rd#f#h#G hsdup hqw#iru#y#l#r#wl#r#q#r#i#w#d#w#o#z#i#dq#k#d#o#v#r#e#h#g#l#f#l#s#d#q#h#g#
xqghu#z#l#f#r#q#v#l#q#v#w#d#w#h#567#46#

9#D q|#lvwru#z kr#eulgj#v#dq|#kqdxwkrul#hg#gdqjhurxv#z hdsrq#rqrw#khh#fkrrd#sup lvh#kdo#eh#
uhuhg#w#khh#K#r#ul#fr#q#s#rd#f#h#G hsdup hqw#iru#y#l#r#wl#r#q#r#i#w#d#w#o#z#i#

F 1##R Q WUR O#

Wkh#subq#fslsd#dqg2ru#khh#E#rdg#r#i#I#x#f#wlq#r#ru#h#h#s#r#q#v#l#e#d#r#u#khh#p#s#d#p#h#q#w#l#r#q#d#g#f#r#q#w#r#r#i#k#l#
srdf|#

#

#

VSR UWV#

D wkdwl#f#

Y d#l#r#x#v#n#{w#d#p#x#d#s#r#w#b#h#y#d#o#e#d#i#r#u#e#r#w#k#e#r|#v#d#g#j#l#w#l#D#o#w#x#g#h#q#w#s#d#w#l#s#d#w#l#q#j#q#d#q|#n#{w#d#p#x#d#s#
v#s#r#w#p#x#w#k#d#y#h#d#E#x#u#h#q#w#s#k|#v#f#d#h#{q#p#l#q#w#l#r#q#r#q#l#b#q#khh#fkrrd#riilfn#ehiruh#khh#p#d|#s#d#w#l#s#d#w#h#
S#d#w#l#s#d#w#l#q#j#w#x#g#h#q#w#p#o#r#p#x#w#l#j#q#w#khh#d#s#s#r#s#u#l#d#w#h#s#d#h#z#r#u#n#i#r#u#s#d#w#l#s#d#w#l#r#q#l#W#k#h#E#rdg#r#i#I#x#f#wlq#r#
z#l#q#h#n#p#l#q#h#w#k#w#d#w#l#f#h#h#z#k#l#f#k#l#h#h#d#s#s#d#h#r#w#h#p#z#x#s#d#h#v#d#g#j#q#p#h#n#{s#h#q#v#h#
#

R x#u#n#{w#d#p#x#d#s#r#w#s#r#j#d#p#h#d#h#v#k#h#d#y#l#b#r#q#y#r#o#x#q#w#h#u#f#r#d#f#k#h#v#h#h#h#h#h#v#h#p#h#v#h#f#r#u#n#h#h#s#h#v#h#g#u#l#y#h#v#h#
h#f#l#D#v#h#r#x#u#d#h#q#w#s#h#p#l#w#s#d#h#h#y#r#o#x#q#w#h#u#h#r#x#u#h#u#y#l#f#h#v#h#r#khh#k#w#d#w#l#f#g#l#h#f#w#r#h#

H#d#j#l#e#l#w|#

V#x#g#h#q#w#b#h#n#{s#h#f#w#g#w#r#s#o#f#h#d#s#u#l#r#u#l#w#r#q#s#l#w#l#w#d#j#u#r#z#w#k#d#g#g#d#f#d#g#p#l#f#f#k#l#h#y#p#h#q#w#l#D#f#d#g#p#l#f#
s#r#j#h#v#p#x#w#h#h#p#r#q#w#d#w#g#q#g#r#u#h#u#r#k#d#y#h#khh#s#u#l#y#l#d#j#h#r#i#s#d#w#l#s#d#w#l#q#j#q#v#W#h#s#k#h#q#k#w#d#w#l#f#
d#f#w#y#l#w#h#v#h#

l#q#r#u#h#u#r#s#d#w#l#s#d#w#h#q#v#f#k#r#r#d#k#w#d#w#l#f#d#f#w#y#l#w#h#v#w#x#g#h#q#w#q#h#g#w#r#e#h#f#k#l#h#y#l#q#j#d#w#h#s#d#w#l#q#j#b#y#h#d#q#h#d#f#k#
r#i#k#h#l#f#w#h#v#h#v#w#x#g#h#q#w#p#d|#e#h#f#r#p#h#q#h#d#j#l#e#d#i#r#u#s#d#w#l#s#d#w#l#r#q#d#f#f#r#u#l#q#j#r#khh#r#o#r#z#l#q#j#h#v#h#p#

R#q#p#r#q#g#d|#r#x#u#f#k#r#r#d#q#i#r#u#p#d#w#l#r#q#v#w#h#p#z#l#e#h#k#h#f#h#g#h#r#u#khh#p#d#h#v#h#k#d#q|#w#x#g#h#q#w#z#k#r#d#h#

(4<

shuirp lqj#5w#3 (#ru#harz #lq#dq |#judgh#xenmfw#Dw#k.l#sr.lqw#wxghqw#z loeh#sxw#q#suredwlrq/#
p hdq.lqj#kdw#kh|# lo#kdyh#rqh#z hnm#r#p suryh#khl#judgh#r#i# 3 (#ru#k.ljkh#Wkh#d#hgr#h#wulfwlrq#
rq#wxghqw#f#wly#w|#z.k.l#r#q#suredwlrq##

Wkh#hdfkhu#p d|#surylgh#k#h#wxghqw#r#q#suredwlrq#q#r#ssruwq.lw|#r#d.l#k#h#l#judgh#g#xulqj#kdw#hnm##
Vrp h#srwled#z d|#i#gr.lqj#k.l#r#xog#eh#k#urxj#k#gdl#d#wljqp hqw/#hww/#hgr.lqj#suy#rxv#gdl#z run/#
uh#h#lqj#suy#rxv#hww/#fow#s#dwfls#wlrq/#ru#n#wdfuhg.lw#K rz hyu/#hdfkhu#d#hgr#w#htx.lhg#r#
dffrp p rgdw/#k#dqjh/#ru#gg#r#k#h#l#r#xuz#run#ru#wxghqw#r#q#suredwlrq#ru#qhdjled#

Li#h#wxghqw#k#d#ehq#s#w#r#q#suredwlrq#ru#r#q#h#z hnm#gg#k#d#d#l#g#r#d#l#k#l#ru#k#h#judgh#r#i# 3 (#ru#
k.ljkh#lq#d#k#xenmfw#d#h#v#k#h|# lo#k#h#q#eh#q#hdjled#k#q#w#k#h|#k#d#y#d#l#g#k#h#l#judgh#r#d#s#dwlgj#h#y#d#
iru#d#shulrg#i#d#d#ndw#r#q#h#z hnm##/wxghqw#z kr#d#h#q#hdjled#z lo#gr#w#eh#d#or#z hg#r#s#dwfls#d#h#q#d#q|#
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uh#h#y#l#q#j#k#h#s#u#r#p #d#w#r#u#

Wkh#s#ulq#f#l#s#d#2#D#w#d#w#f#E l#h#f#w#z lo#gr#w#i|#k#h#wxghqw#s#d#h#g#w/#d#g#r#d#f#k#h#z khq#wxghqw#d#h#s#o#f#g#r#q#
suredwlrq#ru#d#h#q#hdjled#i#Q r#w#l#f#w#r#q#z lo#f#r#p h#e|#p d#o#s#k#r#q#h#f#d#o#r#u#r#w#h#

Vw#h#w#s#k#h#q#D#w#d#w#f#F r#d#f#k#h#
Vl#q#f#h#k#h#s#x#s#r#v#r#i#h#{w#d#f#x#u#l#f#x#o#l#k#d#w#f#v#r#q#y#r#y#h#wxghqw#q#d#f#w#y#l#w#h#z kr#v#j#r#d#d#h#k#h#
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w#k#h#E#r#d#g#r#i#g#x#f#w#r#q#r#u#d#s#s#u#r#y#d#i##

Wkh#r#d#f#k#h#r#u#s#r#w#d#h#g#h#h#y#h#v#F kul#w#d#q#r#d#p r#g#h#r#u#k#h#wxghqw#d#k#d#w#k#q#h#k#h#l#g#l#h#f#w#r#q#
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P IVF HOOD Q HR X V#

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G d p d j h #
V w g h q w # d g # i d p l d v # k d e l h # k h g # h s r q v l e d # i r u # k h # s u r s h u # f d u h # i # d q | # f k r r o # z q l g # e r m | # # w k h # w g h q w #
d g # i d p l | # z k e h # i n t x l u g # r # u h p e x u h # k h # f k r r o # i r u # k h # e r w # i # r u # g d p d j h # r # d q | # e r m | # # w g h q w # d g #
i d p l d v # l u h # o r # k h g # h s r q v l e d # i r u # f k r r o # s u r s h u | # r u # i n t x l s p h q w # k d w # g h d e h u d w # i r u # f d u h d w # g h i d f h g / #
g d p d j h g / # r u # p d u h g #

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W h d s k r q h #
W k h # w # w s k h q # r i l f n # s k r q h # x p e h u # v # 7 ; 8 0 9 ; : # f k l g u h q # l u h # s h u p l w h g # r # x v # w k h # s k r q h # q # f d u h # c #
h p h u j h q f | # z l w # s h u p l w i r q # r i # w # d f k h u # d # q r # f k d u j h # # i # | r x # p x w # j l w # d p h w d j h # r # | r x u # f k l g # f d o #
7 ; 8 0 9 ; : # d g # w k h # h f u h d u | # z k e h o l | # k h p h w d j h # #

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O r w # d g # r x q g #
H d f k # | h u # h d u j h # c r o n f w i r q # i # q f o l p h g # l w p # l u h # d w k h u g # # d # r w # d g # r x q g # f r q w l q h u # z k e h # h s w # l q #

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d#q#g#r#j#l#h#s#u#r#w#f#w#r#q#d#j#d#l#q#w#h#w#d#q#x#v#i#

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u#h#f#h#y#g#k#h#s#u#r#s#h#p#p#x#q#l#d#w#r#q#h#r#u#h#k#h#f#k#l#g#h#s#d#w#l#f#x#o#l#h#j#u#d#h#l#W#k#h#h#w#g#h#g#w#p#x#w#w#d#l#h#q#k#h#
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585B7,|#

Z#k#h#g#k#h#h#f#k#r#r#d#q#r#w#i#l#h#w#k#h#s#d#h#g#w#r#u#h#j#x#d#g#l#q#d#e#r#x#w#k#h#p#p#x#q#l#d#w#r#q#h#t#x#l#h#p#h#g#w#h#p#x#w#d#o#r#h#
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F#r#p#p#x#q#l#f#d#e#d#h#G#h#d#h#h#v#
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H#d#f#k#h#f#k#r#r#d#h#d#u#h#G#S#I#h#h#t#x#l#h#g#r#s#u#r#y#l#g#h#s#u#y#d#h#v#f#k#r#r#o#z#l#k#h#q#i#r#u#p#d#w#r#q#h#j#d#g#l#q#j#p#h#q#l#q#j#r#f#r#f#d#d#
g#h#d#h#h#s#u#y#d#h#v#f#k#r#r#o#p#x#w#h#k#d#h#k#h#h#q#i#r#u#p#d#w#r#q#h#h#f#h#y#h#h#u#r#p#h#G#S#I#z#l#k#h#s#d#h#g#w#d#q#g#j#x#d#g#l#q#v#r#i#
s#x#s#l#h#q#u#r#o#w#h#g#l#q#d#u#g#h#d#i#h#z#l#h#w#d#w#4;B6+6,|#

L#i#h#h#x#e#w#d#w#d#d#r#x#e#u#h#h#h#i#q#h#h#i#k#h#h#g#h#d#h#h#h#r#u#h#z#k#l#f#k#h#h#w#g#h#g#w#k#d#h#r#w#e#h#h#g#p#p#x#q#l#h#g#d#h#h#h#h#g#k#h#
v#f#k#r#r#d#h#r#u#h#h#f#r#p#p#x#q#l#w#h#k#h#h#s#d#u#p#h#g#w#p#d#l#h#t#x#l#h#k#h#h#f#k#r#r#d#h#r#h#{#f#o#g#h#k#h#h#w#g#h#g#w#u#r#p#h#w#h#g#d#q#f#h#
x#q#w#d#h#k#h#x#e#u#h#h#x#e#v#g#h#v#h#z#l#h#w#d#w#585B7-3:,|#

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UHF RUG V#

Vwghqw#Jhfrugw#hfl#4;1458/z lfrqvlq#wdwxhv,#

+4,#J hghudq#wvghqw#hfrugw#uh#p dlqwdlqhg#q#kh#qwhuwr#i#kh#wvghqw#r#dw#wvkh#fkrrd#q#surylg#qj#
dssursuldw#hgxfdw#rqqd#h{shulhqf#h#

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+5,#F rqwqw#wvghqw#hfrugw#qfoxgh#d#hfrugw#hqw#gj#r#q#q#q#l#x#d#wvghqw#wkhu#wkdq#q#r#w#cu#
uhfrugw#p dlqwdlqhg#ru#shurqdd#x#e|#hdfkhu#ru#wku#f#w#i#h#g#shurqg#h#z#k#lfk#d#h#q#r#w#y#d#e#d#r#
rkwu#q#g#h#frugw#p#h#fwdu|#ru#q#g#y#d#e#d#r#q#r#s#h#ur#q#w#q#y#r#q#g#q#s#v#f#k#r#r#j#l#d#w#h#w#p#h#q#w#r#i#d#
vwghqw#

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Surjuhw#hfrugw#p dlqwdlqhg#e|#kh#fkrrd#qfoxgh#d#w#p#h#q#w#r#i#f#r#x#u#h#w#d#h#q#e|#kh#wvghqw#wkhu#
wvghqw#w#j#d#q#h#w#k#h#wvghqw#w#h#w#f#x#u#l#f#x#d#l#f#w#y#w#w#l#w#q#g#k#h#wvghqw#w#d#w#h#g#g#d#q#f#h#hfrugw#
Ehkdy#rud#hfrugw#p dlqwdlqhg#e|#kh#fkrrd#qfoxgh#d#wvghqw#hfrugw#wkhu#wkdq#surjuhw#hfrugw#
Ehkdy#rud#hfrugw#qfoxgh#w#d#g#d#g#l#g#d#f#k#l#h#p#h#q#w#w#w#s#k#v#f#d#k#h#d#k#h#hfrugw#w#h#d#f#k#h#w#y#d#x#d#w#r#q#w#
rkwu#wkdq#j#d#q#h#w#p#h#q#w#h#w#q#w#r#w#q#g#l#x#d#wvghqw#ehkdy#rud#p#h#q#w#d#e#l#w#w#w#w#w#w#w#w#
l#w#h#w#w#q#y#h#w#w#l#w#w#w#p#q#g#h#w#w#w#d#w#w#l#w#w#w#

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+6,#F rqlghqw#ddw#wvghqw#hfrugw#uh#frqilghqw#d#z#wk#kh#ir#r#z#q#l#q#h#f#h#s#w#w#r#w#
d,#d#s#x#s#l#r#u#w#k#h#s#d#h#w#r#w#j#x#d#g#l#g#r#i#d#p#l#q#r#s#x#s#l#w#k#d#k#s#r#q#h#t#x#h#w#e#h#k#r#z#q#l#q#h#s#u#r#w#h#g#z#wk#
frs|#r#i#kh#s#x#s#l#w#surjuhw#hfrugw###
e,#q#q#g#x#w#s#s#l#r#u#w#k#h#s#d#h#w#r#w#j#x#d#g#l#g#r#i#d#p#l#q#r#s#x#s#l#w#k#d#k#s#r#q#h#t#x#h#w#e#h#k#r#z#q#l#q#h#s#u#r#w#h#g#z#wk#
r#i#d#p#h#w#w#q#x#d#d#l#g#w#r#h#s#o#l#q#d#q#g#w#h#u#w#w#k#h#hfrugw#w#k#h#s#x#s#l#w#ehkdy#rud#hfrugw#w#w#f#k#g#x#w#s#s#l#w#
r#u#s#d#h#w#w#r#w#j#x#d#g#l#g#w#k#d#k#s#r#q#h#t#x#h#w#e#h#s#u#r#w#h#g#z#wk#d#frs|#r#i#kh#ehkdy#rud#hfrugw###
f,#k#h#w#g#j#h#r#i#q#l#r#x#w#w#i#k#l#w#w#w#r#w#i#k#h#k#q#w#g#w#w#w#w#w#k#d#k#s#r#q#h#t#x#h#w#e#h#s#u#r#w#h#g#z#wk#h#fkrrd#
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F #Wxghqgw#z kr#ehdhyh#khl|#kdyh#ehhg#xenmfvg#r#h{xdd#kduwv hq#w#u#q|#sdhgw#ru#jxdugldqv#z kr#ehdhyh#khl#Wxghqgw#kdv#ehhg#xenmfvg#r#h{xdd#kduwv hq#w#kxog#hsru#khl#qflghqww#r#khl#sulqflsdd#lw#khl#qvwgw#i#r#Wvshkq#r#fuhdw#q#v#p rvskhuh#z khuh#r#p sölq#w#z k#eh#uhdwg#dlu#q#g#surp sw#l#L#Wxghqgw#ru#sdhgw#u#q#r#r#p irwded#z lk#p dnlqj#p#r#p sölq#w#r#khl#sulqflsdd#khl#r#p sölq#w#p d|#eh#p dgh#r#r#hdfkhu#z lk#khl#kqghuw#g#lqj#kdv#qflghqww#p xw#eh#hsruhg#r#q#p lq#w#dw#r#q#ru#hy#lz #dgg#dfw#r#q#W#khl#p sar|h#h#h#f#ly#lqj#khl#r#p sölq#w#kdv#hsru#khl#r#p sölq#w#r#khl#sulqflsdd#

G #Wklug#sdw|#z lqhw#h#u#h#wurq#j|#q#frxudjhg#r#hsru#revhuyhg#qflghqww#r#h{xdd#kduwv hq#w#r#khl#sulqflsdd#I#y#u|#hiiru#z k#eh#p dgh#z khq#h#t#x#hw#g#r#p dlqwdlq#khl#r#q#ilghqwd#l#r#i#z lqhw#qflghqww#l#xqdw#khl#z lqhw#v#h#t#x#hw#g#r#h#w#i|#q#p#k#h#dulqj#

H #Wkhl#q#p lq#w#dw#r#q#p#g#g#w#di#z k#eh#q#ir#p #Wxghqgw#kdv#W#v#shkq#r#h#w#r#r#duw#h#h{xdd#kduwv hq#w#lq#q|#ir#p #q#g#z k#eh#h#h#h#f#w#du|#q#g#p#ssur#suldw#dfw#r#q#r#p#p lq#w#W#k#s#r#q#g#q#foxg#lqj#g#l#f#l#s#d#q#h#r#i#h#i#g#g#h#u#W#q#w#f#w#r#q#d#p#h#z k#eh#k#w#d#l#g#r#q#ir#p #Wxghqgw#erxw#h{xdd#kduwv hq#w#q#g#w#r#q#frxudjhg#p ru#hs#r#v#ly#h#f#dulqj#q#g#r#q#w#x#f#w#y#h#q#w#u#h#w#r#q#d#h#w#r#q#k#l#s#W#v#ghqgw#z k#eh#q#ir#p hg#r#i#k#l#s#r#d#f|#q#q#x#d#q#q#g#khl#r#p sölq#w#sur#fng#xuh#z k#eh#p dgh#p#y#d#l#e#d#r#q#|#Wxghqgw#ru#sdhgw#2#jxdugldqv#z lk#lqj#r#l#h#p#r#p sölq#w#

I #F#r#p sölq#w#sur#fng#xuh#

4 #W#v#p#p srudq#w#ru#khl#h#sur#fng#xuh#w#r#h#v#h#f#w#khl#uljkw#r#i#p#s#d#w#l#v#q#foxg#lqj#khl#sur#w#f#w#r#q#r#i#shurq#d#s#y#d#f|#q#w#h#w#q#g#khl#sur#w#f#w#r#q#r#i#khl#hs#x#w#dw#r#q#r#i#p#q#r#q#f#h#q#h#g#q#g#q#y#r#q#y#h#g#s#d#w#l#v#W#q#p#r#ghu#r#h#q#w#h#d#l#sur#fng#xuh#q#g#r#p#sur#w#f#w#khl#h#q#w#h#w#v#p#s#d#w#l#v#h#h#q#frxudjhg#r#h#hs#khl#h#p#d#w#u#v#r#q#ilghqwd#l#v#s#r#w#l#e#d#l#

5 #Wxghqgw#z kr#ehdhyh#khl|#du#h#l#w#p v#r#h#h{xdd#kduwv hq#w#r#sdhgw#2#jxdugldqv#z kr#ehdhyh#khl#k#l#q#l#h#p#l#w#p#r#i#h#h{xdd#kduwv hq#w#kxog#p#p hglbw#q#hsru#khl#ur#q#f#h#q#v#r#khl#sulqflsdd#ru#hdfkhu#d#sdhgw#2#jxdugldqv#p d|#bz#hsru#khl#r#q#f#h#q#v#r#khl#h#p sar|h#v#i#q#q#x#o#p sar|h#h#k#w#h#k#d#q#khl#sulqflsdd#h#f#h#ly#h#khl#r#p sölq#w#khl#p sar|h#h#k#d#r#uz#d#g#r#p sölq#w#r#khl#sulqflsdd#ru#hy#lz #q#g#dfw#r#q#h#q#h#f#w#du|#

6 #D#r#p sölq#w#z k#eh#d#h#q#h#ul#r#x#v#q#q#g#z k#eh#xen#mf#v#r#k#r#ur#x#j#k#h#y#lz #q#g#p#p hglbw#l#y#h#w#l#j#d#w#r#q#e|#khl#h#f#h#ly#lqj#r#i#l#f#h#z#z k#l#h#p#h#shulrg#v#h#w#d#e#d#k#h#g#e#h#r#z#r#u#khl#r#p s#w#r#q#r#i#y#d#l#r#x#v#dfw#r#q#v#khl#h#y#lz#lqj#r#i#l#f#h#k#d#s#u#r#y#l#g#h#s#ur#p#s#w#z#u#w#h#q#r#w#f#h#r#r#q#f#h#q#h#g#s#d#w#l#v#r#i#khl#h#{shfw#g#p#h#shulrg#r#u#r#p s#w#r#q#r#i#khl#h#t#x#l#h#g#dfw#r#q#z khq#h#{f#h#w#r#q#d#f#l#u#x#p#w#d#q#f#h#v#r#r#r#w#p#r#z#r#p#r#p s#w#r#q#z lk#lq#khl#h#{shfw#g#p#h#shulrg#l#

Wkhl#r#o#z#lqj#sur#fng#xuh#z k#eh#k#v#h#g#

d#i#q#ir#p d#y#h#e#d#r#q#d#h#l#f#w#r#q#r#h#w#r#h#w#o#f#q#khl#q#l#w#dw#r#q#r#i#r#p d#q#l#f#l#s#d#q#d#l###sur#fng#xuh#v#w#khl#h#t#x#w#r#i#khl#r#p sölq#d#w#khl#r#i#h#g#g#lqj#s#d#w#l#v#p d|#eh#d#h#h#g#r#h#{sölq#khl#ur#q#g#x#f#w#ru#h#k#d#y#r#u#r#w#khl#h#y#lz#lqj#r#i#l#f#h#v#w#khl#h#t#x#w#r#i#khl#r#p sölq#d#w#

e #F#r#p sölq#w#k#d#eh#s#u#h#q#w#g#r#khl#sulqflsdd#Wkhl#r#p sölq#w#kxog#q#foxg#h#h#sh#f#l#l#f#w#d#w#p hq#w#i#h#w#khl#d#h#j#g#e#h#k#d#y#r#u#q#foxg#lqj#l#i#s#r#w#l#e#d#d#g#l#w#r#q#d#e#d#f#j#u#r#x#g#g#h#w#l#w#x#f#k#v#w#p h#q#d#w#r#f#w#r#q#q#g#f#l#u#x#p#w#d#q#f#h#r#i#h#d#k#d#h#j#g#q#flghqww#

f #Wkhl#sulqflsdd#k#d#p d#h#q#q#l#w#d#g#h#w#p lq#dw#r#q#r#i#khl#r#p sölq#w#k#l#f#k#k#d#q#foxg#h#q#y#h#w#l#j#d#w#l#qj#khl#r#p sölq#w#r#w#l#l#qj#khl#shurq#z kr#kdv#ehhg#p#f#x#v#g#r#i#k#d#v#p hq#w#sh#p l#w#q#j#h#h#s#r#q#v#r#khl#d#h#j#d#w#r#q#h#d#u#q#l#qj#p#h#w#q#j#q#g#h#s#r#g#g#lqj#r#khl#r#p sölq#w#l#q#f#h#khl#f#k#r#r#d#h#h#w#khl#h#r#p sölq#w#v#h#l#r#x#v#q#khl#z k#eh#xen#mf#v#r#khl#p hglbw#h#y#lz #q#g#q#y#h#w#l#j#d#w#r#q#I#y#u|#hiiru#z k#eh#p dgh#r#r#p s#w#r#k#l#q#l#w#d#h#y#lz#z lk#lq#l#i#w#h#q#48#f#d#q#g#d#p#v#i#w#u#r#p sölq#w#kdv#ehhg#h#f#h#ly#h#Wkhl#sulqflsdd#k#d#j#y#h#z#u#w#h#q#hsru#r#khl#r#p sölq#d#w#v#i#w#khl#r#p s#w#r#q#r#i#khl#q#l#w#d#h#y#lz#

g #i#q|#sdw|#v#q#r#w#d#w#l#h#g#z lk#khl#hsru#r#i#khl#sulqflsdd#z#z#u#w#h#q#s#s#h#d#p d|#eh#x#ep l#w#h#g#r#khl#Erdug#r#i#g#x#f#w#r#q#l#

Vh{xdd#kduwv hq#w#Wxghqgw#

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D 1##w#whskhq#Oxwhudq#vfkrrdq#rhw#r#ndudh#h{xdd#kduwp hq#q#q#|#rup #qg#z k#h#d#q#h#f#w#d#|#
d#q#d#s#s#u#l#d#w#d#f#w#r#q#w#r#d#p l#d#w#w#k#s#r#d#q#q#f#o#x#g#l#q#j#g#l#v#l#s#d#q#h#r#i#h#q#h#u#v#w#v#k#h#s#r#d#f|#r#i#w#
V#h#s#k#h#q#w#r#p d#l#q#w#l#q#q#g#h#q#v#u#h#d#h#d#q#l#q#j#h#q#y#l#u#r#q#p h#q#w#h#h#r#i#q#|#rup #r#i#h{xdd#kduwp hq#w#r#u#
l#q#w#p l#q#w#r#q#w#r#z#d#q#d#q#h#w#z#h#q#w#k#g#h#q#w#
E 1##V#h{xdd#kduwp hq#w#p h#q#w#k#z#h#f#r#p h#h{xdd#q#y#d#q#f#v#/#q#z#h#f#r#p h#s#k#|v#f#d#f#r#q#w#f#w#r#i#h{xdd#q#d#w#h#/
r#u#k#z#h#f#r#p h#h#u#e#d#r#u#s#k#|v#f#d#f#r#q#g#x#f#w#r#i#d#h{xdd#q#d#w#h#1##X#q#z#h#f#r#p h#h#u#e#d#r#u#s#k#|v#f#d#f#r#q#g#x#f#w#r#i#d#
v#h{xdd#q#d#w#h#1##q#f#o#x#g#h#v#/#e#x#w#v#q#w#r#d#p l#w#g#w#r#w#k#h#g#h#d#e#h#u#d#w#h#h#s#h#w#g#p d#n#l#q#j#r#i#k#q#v#r#d#f#w#g#j#h#w#u#h#w#r#u#
f#r#p p h#q#w#r#u#w#k#h#g#h#d#e#h#u#d#w#h#h#s#h#w#g#p l#v#s#e#l|#r#i#h#q#v#y#h#h{xdd#q#j#u#s#k#l#f#p d#w#h#u#d#w#h#
F 1##w#h#w#h#q#w#d#k#k#w#d#i#d#q#g#w#k#g#h#q#w#k#d#y#h#d#d#d#q#g#h#w#d#q#g#l#q#j#r#i#h#k#d#y#r#u#w#k#w#d#d#z#l#k#l#q#w#k#h#
g#h#l#q#w#r#q#w#r#i#V#h{xdd#kduwp hq#w#s#h#h{xdd#kduwp hq#w#v#q#j#d#j#l#q#j#q#q#|#w#|s#r#i#k#z#h#f#r#p h#r#u#k#z#d#q#w#g#
v#h{xdd#q#d#w#h#1##q#f#o#x#g#h#v#k#w#d#z#r#x#q#q#h#w#h#h#z#l#k#q#w#r#k#h#u#h#d#e#l#w#r#h#d#q#r#u#x#q#f#w#r#q#g#k#h#v#f#k#r#r#
h#q#y#l#u#r#q#p h#q#w#r#i#d#p#s#d#v#r#i#f#r#q#g#x#f#w#k#w#d#f#u#d#w#v#x#f#k#q#h#w#h#h#q#f#h#d#h#d#v#r#o#z#v#

4 1##X#q#z#h#f#r#p h#r#u#k#z#d#q#w#g#f#r#q#w#f#w#r#x#f#k#d#v#/#e#x#w#v#q#w#r#d#p l#w#g#w#r#w#k#x#f#k#l#q#j#/#s#d#w#l#q#j#/#l#q#f#k#l#q#j#/#x#j#l#q#j#/
e#u#k#l#q#j#d#j#l#q#w#d#q#w#r#k#h#u#h#e#r#g#|#s#x#o#q#j#d#v#q#w#r#k#h#u#h#f#o#w#k#l#q#j#/#r#u#f#l#q#j#d#q#w#r#k#h#u#r#d#z#d#r#u#f#r#u#h#w#k#u#r#j#k#
e#r#g#|#r#v#w#r#q#r#u#p r#y#p h#q#w#r#f#
5 1##J#h#t#x#h#w#r#u#h#p d#q#v#r#u#h{xdd#d#y#r#u#w#k#l#q#f#o#x#g#h#v#/#e#x#w#v#q#w#r#d#p l#w#g#w#r#/#x#e#w#r#u#f#e#d#w#q#
h#s#h#f#w#d#w#r#q#v#/#s#h#w#u#h#v#/#r#u#h#t#x#h#w#r#u#d#q#|#w#|s#r#i#h{xdd#d#y#r#u#f#f#r#p s#d#l#h#g#e#|#q#p#p s#d#h#r#u#w#d#w#g#
s#u#r#p l#h#r#i#s#h#h#h#q#w#d#w#h#d#w#p h#q#w#r#u#h#j#d#w#y#h#f#r#q#v#t#x#h#q#f#h#
6 1##Y#h#u#e#d#r#u#s#k#h#i#d#p#s#d#v#r#i#h#u#e#d#r#u#s#k#h#d#h#f#r#p p h#q#w#l#q#j#d#e#r#x#w#d#q#q#g#l#y#l#q#x#d#w#e#r#g#|#r#i#d#s#s#h#d#w#q#f#h#
z#k#h#h#x#f#k#f#r#p p h#q#w#r#h#r#q#g#p h#h#f#r#x#u#h#v#/#h#d#q#j#d#l#w#l#r#m#h#v#s#k#w#d#h#d#d#u#q#q#z#d#q#w#g#d#q#g#
f#r#q#v#g#h#h#g#r#i#h#q#v#y#h#e#|#w#k#h#w#r#u#d#q#|#w#k#h#w#d#w#h#w#h#h{xdd#q#d#w#h#1##q#f#o#x#g#h#v#/#e#x#w#v#q#w#r#u#
d#f#w#r#q#v#k#w#d#w#i#h#q#g#r#k#h#w#
7 1##J#h#s#h#w#g#p l#v#s#e#l|#r#i#h{xdd#q#j#u#s#k#l#f#r#u#h#s#d#f#l#w#p d#w#h#u#d#w#h#j#d#w#y#h#f#r#p #
G 1##J#h#d#d#w#r#q#
l#q#g#l#y#l#q#x#d#w#h#s#r#w#l#q#j#q#f#l#g#h#q#w#r#i#h{xdd#kduwp hq#w#z#k#e#h#s#u#r#w#f#w#g#h#u#r#p #h#w#d#d#w#r#q#1##d#q#|#q#g#l#y#l#q#x#d#
z#k#r#q#j#d#j#h#q#h#w#d#d#w#r#u#l#f#r#q#g#x#f#w#d#j#d#l#q#w#d#f#r#p s#d#d#w#z#k#e#h#x#e#n#f#w#r#g#l#v#l#s#d#q#h#k#q#g#h#w#k#l#s#r#d#f|#
H 1##S#r#d#f|#g#h#w#p l#q#w#r#q#
4 1##Y#h#u#l#w#k#g#h#w#r#u#w#k#g#h#w#s#d#h#q#w#j#x#d#q#l#q#z#k#e#h#f#h#l#h#d#f#r#s#|#r#i#k#h#s#r#d#f|#q#g#d#q#p l#q#w#d#w#y#h#w#k#w#h#
h#d#f#k#|#h#u#d#v#s#d#w#r#i#h#d#f#k#w#k#g#h#w#r#k#d#q#g#e#r#m#
5 1##G#l#v#x#w#r#q#r#i#h{xdd#kduwp hq#w#z#k#e#h#q#f#o#x#g#h#v#d#q#d#j#h#d#s#s#u#r#s#u#l#w#h#y#h#w#k#u#r#j#k#w#w#h#s#k#h#q#
O#x#w#h#u#d#q#v#f#k#r#r#d#
6 1##J#x#d#w#q#f#o#x#g#l#q#j#k#h#f#r#p s#e#l#q#w#s#u#r#f#h#g#x#u#h#q#g#d#w#r#f#l#w#g#h#u#r#p /#z#k#e#h#j#l#y#h#q#w#r#d#q#|#q#g#l#y#l#q#x#d#z#l#k#l#q#j#
w#r#l#h#d#f#r#p s#e#l#q#w#
7 1##k#h#s#r#d#f|#q#g#x#d#w#z#k#e#h#h#y#l#z#h#g#d#q#x#d#e#z#l#k#p#s#r#|#h#v#

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#####SK \ VLFDO#DEX VH\$R OLF \

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Dø#wdii#p hp ehw#h#htx.lhg#e|#øz#r#hsru#dq|#zvs.lfrxv#ru#qh{sø.lqhg#lqxu|#r#r.fldø#huy.lfv#l#i#
wdii#p hp ehw#d#hdvrqded#föxv#r#zvsfw#k.d#f#k.lg#k.d#ehhg#dexv#g#ru#hjd.fwg#ru#d#hdvrq#r#
ehdlyh#k.d#z.fk#f#k.lg#k.d#ehhg#k.u.d.w.h.g#z.lk#dexv#r#hjd.fwg#l.g#k.d#k#dexv#r#hjd.fw#z.lø#ffx#
kh#p.xw#hsru#l#r#

~ #kh#frxqw#ghsduw hqw#r#khdok#ögg#dp l|#huy.lfv#

~ #kh#frxqw#khulii#

~ #kh#f#w/#y.lø.jh#r#r#z.g#r.d.f#ghsduw hqw#r#

~ #h.j.f.r.q.v.g#f.k.l.g#z.h.a.d.h#h.j.h.f|#k.g.g.h.u.f#f.r.q.w.d.f.w#z.lk#kh#ghsduw hqw#r#khdok#ögg#dp l|#huy.lfv#

Wkh#hsru#p d|#eh#p dgh#e|#hdskrqh#ru#q#shurq#l#w#z rxg#eh#suxghq#ru#q|#shurq#p dnlqj#zfk#d#

unsru#r#hhs#d#z ulwq#hfrug#r#i#k#h#g.d#ögg#l#p h#k#h2vk#p dgh#kh#hsru#kh#shurq#r#z.k.r.p #kh#smh#

dgg#kh#zewdq#f#r#i#k#h#l#f.r.q.y.h.u.d.l.r.g#dök.r.x.j.k#z.f.k#d#hfrug#l#q.r.w#h.j.dø#p dggd.w.g#

#

Dø#hsru#k.dø#eh#f.r.q.l.g.h.q.w.d.d#ögg#q|#shurq#p dnlqj#d#hsru#q#j.r.r.g#d.l.k#l#p p.xq.h#urp #fup.lq.d#

dgg#f.y.l.d.f.d.l.w|#hxø.w.g.j#urp #kh#hsru#l#d.ö.x.h#r#hsru#l#h.t.x.l.h.g#p d|#hxø#q#d#fup.lq.d#l.q.h#r#i#

'4/333#r#p s.u.v.r.q.p h.q.w#s#r#z.l#p r.q.w.v#

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