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REDGRANITE ELEMENTARY SCHOOL

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# REDGRANITE ELEMENTARY SCHOOL HANDBOOK TABLE OF CONTENTS

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 \*`Z`x`q`f`\*`i`l`n` , MlX`Xn`{aZ`xb`a`{`{ab`°`a`  
 ?Zyuni`y`U`b`q`f`\*`Xn` , aM`\*`l`ZZX`{n`Xn` , aZl`\*`l`ZZX`{n`Xn`b`q`  
 "k`u`M`a`f`\*`|`|`XZxy`{MlX`{aM`ZfZxtnl`Z`a`Mj`\_ZZj`b`°`y`  
 ž`Z`{Zxk`b`Mlbnl`\*`Vl`yZ`{`n`Mj`MlX`{xt`k`f`UZy`{ZfZl` , aZl`b`b`y`a`M`X`a`  
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- â`@`à`Mk`°` "l`X`n`\_U`xZMl`\_Mj`{`yZxf`b`°`°`
- â`@`U`Mk`°`a` H`Ml`b`°`UZjj`°`
- â`@`à`Mk`°`a` Y`l`X`UZjj`f`Mj`y`Zy`UZ`b`ž`@`|`XZl`{y`M`x`b`f`b`°`M`{Zx`{`aby`{`tk`Z` , bja`UZ`{`M`X`f`a`A`°`
- Y`@`à`u`k`°`a` ž`byk`by`Mj`f`H`Ml`b`°`UZjj`°`
- Y`@`U`u`k`°`a` "l`X`n`\_`{aZ`yVannj`X`M`1`@`|`XZl`{y`Mz`X`byk`by`Z`X`°`
- â`@`à`u`k`°`a` "l`X`n`\_`°`°`\_Z`x`yVannj`uxn`x`Ml`1`°`jj`y`|`XZl`{y`k`|`y`f`UZ`ub`M`Z`X`|`u`°`

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 yVannj`fZM`b` , ab`a`{aZ`ValpX`UZVnk`Zy`Zb`a`ZZl` :`U`A`A`f`Z`Mj`y`n`\_Mz`S`|`j`Zy`{aZ`f`\_Mj`|`|`XZx`Ml`Z`VZu`{bnl`|`|`XZx`@`Mz`j`M`S`{aby`unj`b`f`S`  
 nx`Mk`b`b`{x`M`b`f`Z`°`|`b`X`Z`b`Z`by`|`Z`X`|`|`XZx`{`aby`unj`b`f`a`°`ValpX` , an`by`Zl`xnj`Z`X`b`\_bZ` :`a`A`f`Z`M`h`j`X`i`b`XZx`Ml`{Zl`y`a`Mj`M`{Zl`X`y`Vannj`  
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 X`M`n`\_`{aZ`Ml`y`Zl`VZ`f`tn|`k`M`f`y`Zl`X`M`n`Z` , b`a`f`tn|`x`ValpX`nl`{aZ`b`x`Z`|`xl`{n`yVannj`°`°`°`jj`Ml`y`Zl`VZ`y`l`n`{xZunx`{Z`X`Z`k`M`|`|`Z`V`|`yZ`X`  
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u x n f X b ` y { | X Z I { y { a Z n u u n x | I b t \_ n x M I Z X | V M t n l { n , a b a { a Z t M Z Z I { b j Z X S { a Z z b y { x b { y a M j M { Z k u { { n n \_ Z x l | x | x Z S V n | I y Z j S
M I X V | y { n X b j V M Z M u x n u x b M Z { n { a Z b M Z M I X k M | x b t a " { { a Z y M k Z { t k Z { a Z t n M X x Z V n l b Z y { a M l n y { | X Z I { k M I U Z X Z u b Z X

n\_{aZ UMjVxb a{ {n ZWj MjMwZyy{ n {aZ ZX| VMlbnl Mj'uxn` xNk` Ml'X'abyjaZxVnl y{t{ {bnl Mj'xb a{ {n X| Z'uxnVZyy'Ml'X'zZZ'Z.uxZyybnl`  
Ml'X'MjynVMlbnl` Mj'MiuxnxbMZ`\_nx{aZ yVannj'ZI fbnl k Zl {a`

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@| XZl {yaMfZ {aZ'xb a{ {n M{Zl X'yVannj', tñan| { {aZ`ZM'n\_uatyMj{axZMSaMk` nx'fZxUMjMj yZ°@| XZl {yaMfZ {aZ`  
xZyuni yb|tñt {n xZ`xNb`\_xnk` Vnl X| V{ {aM'XnZyl n{ xZyuZV{ {aZ'xb a{ySxb| tñtSMl'X'yMZ{t n\_Mj' b XbfbX| Mj'°@| XZl {yaMfZ {aZ`  
xZyuni yb|tñt {n Z.uxZyy{aZxb{an|` a{yMl'X'ZZj` `y'b` Mk Ml'Zx{aM'XnZyl n{ n\_Zl XSyjMl'XZxinx'xb| jZ n{aZxy°@| XZl {yaMfZ`  
{aZ`xZyuni yb|tñt {n M'abZfZ` M{aZ'ab aZy{ unybtjZ jZfZj` b` Mk Ml'Zx{aM'XnZyl n{ b{ Zx'ZxZ', tña {aZ jZMl' b` `uxnVZyy°@| XZl {y`  
MZ`xZyuni yb|tñt`\_nxMl' tñZk y{aZt'Uxb` ` {n yVannj°`

° jz y{ XZl {y k | y{ uM{bVbMz` b` n| {Xnnx'xZVzy| jZyy'MKnV{nxy'Z.V| yZ'by'uxn'fZxZ`\_nxMl' tñj| Zyy'nx'yuZVb|Vb| k y{Ml'Vz°Ez'y| xZ`  
tn| x'ValjX'by'XxZyyZ'MiuxnxbMZj`\_nx{aZ', ZM'aZx°` {aZ`ZfZl {n`xNb` nx'UZjn, °%xn {Zk uZxMl' xZyx'ZVzyyZy', tñj'UZ`aZjX` b` Xnnxy°`  
ž | xb` , b {Zx', ZM'aZxy| XZl {yMz'Z.uZV{ZX{n` , ZM'aM'S` jnfZySyl n, uMl'ysUnn{yMl'X', Ml'k` hMl'Z{ "G" ? J X M°? ZVZyyx| jZy`  
, tñj'UZ`uny{ZX'Ml'X'Zl`\_nxVZx°`

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° y'ValjXxZl` UZVnk` Z'njXZx'M` xZM'Zx'xZyuni yb|tñt` n| {yXZ` {aZ`VjMj'xnnk` by'Z.uZV{ZX°) nk` Z, nxi` by'M` ZVZyyM't` uM{` n\_M'ab|X'y`  
ZX| VMlbnl` °H` Z', tñj'UZ`xZb`\_nxVb` ` {aZ`\_NW{` aM'y| XZl {xZyuni yb|tñt` by'MfZxt` tk` unx{Ml'` uM{` n\_UZVnk` b` `Mj'bZjnl` ` jZMl' Zx°`  
@| XZl {yaMfZ {aZ`xZyuni yb|tñt` {n Mj' {aZ`{ZM'aZx`\_nx'aZju` uxtnx{ n{ aZ`X| Z`XMZ', tña` Mj'yb| k Zl {y, aZl` aZju` byl` ZZZXZ°`  
° yyb| k Zl {l n{ZUnni` yMz` {n` n` ank` Z`ZM'a` XM` {n`UZ`yb| Z`X`Ut` Ml'` j{` Ml'X'xZ|` x| Z`X`ZM'a` XM°` Aaby'Vnk` k | l` bMlbnl` {n nj', tñj' aZju`  
y{ XZl {ySuMz| {yMl'X`{ZM'aZxy` aMfZ` Mj' WZyy` j yVannj` tZM°`

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?ZyuZV{`\_nxjM` Ml'X`\_nx{anyZ` uZxynl` y'b` Ml`{anx|t` yaMj' UZ`Z.uZV{ZX`\_n\_Mj' y{ XZl {y°` Aaby'b` Vj| XZyVnl`\_nxk` tñt` {n` yVannj` x| jZyMj`  
, Zjj` Mj'` Zl` ZxMj'uxn'fytbnl` yn`\_jM` `xZ` Ml'Xb` ` k` b` nxy°?ZyuZV{`\_nx{aZ`xb a{y'n`\_n{aZxySvnl` ybXZxMlbnl` n\_{aZxb'ux'bfjZ` ZySMl'X`  
VnnuZxMl'fZ` Vt'fZ' yabu` yaMj' Mj'yn` UZ`Z.uZV{ZX`\_n\_Mj' k` Zk` UZxyn`\_n{aZ`yVannj` Vnk` k | l` tñt°`

?ZyuZV{`\_nx'xZMj'Ml'X`uZxynl` Mj'uxnuZx{t` `uxbXZ` b` n| ZÉy', nxi` `WabZ'fZk` Zl {', tñab` {aZ`xMl'` Z`n`\_nl` ZÉy` Ml'j' tñt` Ml'X'Z` Zk` ujM't` uZxynl` Mj`  
y{Ml'X'MXyn`\_Vn| x{Zyt'SXZVZl` Vt`SMl'X` anl` Zy{t` yan| jX`UZ` k` Nb` {Nb` ZX` b` {aZ`yVannj` yn`\_n{abyž` by{xbV}°`

AaZ`H` Ml`{nk` M'` xZM@'annj` ž` by{xb|` by'Vnk` k` tñ{ZX` {n` k` Nb` {Nb` b` ` VjMj'xnnk` y'Vnl` X| VgZ` {n` jZMl' b` `°` AZW'aZxy` Mz`Z` uZV{ZX` {n` VwZMz`  
Munyt'fZ` jZMl' b` ` Zl` fbnl` k` Zl {`\_nx'y| XZl {y'b` {aZxb` VjMj'xnnk` y`Ml'X` {n` k` Nb` {Nb` `uxnuZx'nxXZx°@| XZl {yMz`Z` uZV{ZX` {n` Vnl` X| V{`  
{aZk` yZ'fZy` b` Mk` Ml'Zx`{aM' Mj'n, y{aZ`{ZM'aZx`{n` Z`\_ZV{bfZj` t` Vwxt` n| {jZyynl` `ujM'y` Ml'X` Mj'n, y{ XZl {y`{n` uM{bVbMz` b` VjMj'xnnk`  
jZMl' b` `NW{bf'fZy°@| XZl {yMz` Mj'yn` Z` uZV{ZX` {n` Ml'XZ` Ut` Mj' {aZ`x| jZyn`\_UZa`M'f'nxZy{Ml'j'baZ` Ut` {aZ` t'n`Ml'X`\_n` `X| VMlbnl` S{aZ`  
Nl'k` b` by{xM'n`S`Ml'X` {aZ` VjMj'xnnk` {ZM'aZxy}°`

@| XZl {UZaM'f'nx`{aM' by`XMl'` Zxn| yS'Xbyx| u{bZS| l` x| j't`Snx`{aM' b` {Zx'ZxZy', tña` {aZ`{ZM'aZxy` Ml'j' tñt` {n`{ZM'aZ`\_ZV{bfZj` t', tñj` l` n{`UZ`  
{njZxM'Zx°` I` t` y{ XZl {', an`Zl` `MZY` b` y| Va`UZaM'f'nx` k` M'UZ` y| UfZV{` {n` xZk` n'fMj`\_xnk` {aZ` VjMj'xnnk` Ml'X` Mj'Zl` Ml'fZ` `ujM'WZk` Zl {°`  
AaZ` y{ XZl {k` Ml' Mj'yn`\_UZ` y| UfZV{` {n` Xb'Vwujb` M't` M'f'bnl` b` `M'Vnx`XMl'VZ', tña` Mj' unj'btZy` Ml'X` yVannj` x| jZy°`  
Aaby` t` nXZ`\_n| n` X| V{` Ml'uj'Zy` {n` Mj' y{ XZl {y'b` `xNkZy` <0°` ÜY°`

° {ZM'aZxk` Ml'xZk` nFZ` Mj'| XZl {`\_xnk` VjMj'`\_nx{aZ`\_njjn, b` `xZMjnl` y°`  
ž` Ml'` Zxn| yS'Xbyx| u{bZ`Snx| l` x| j't` UZaM'f'nx`{aM' b` {Zx'ZxZy', tña` {aZ` Ml'j' tñt` n\_{aZ`{ZM'aZx`{n`{ZM'aZ`\_ZV{bfZj` t°`  
<nnyZyybnl`\_n\_M` ZMl'n| nxn{aZx'tñZk` {aM' k` Ml' Vm|yZ` UnX|t` aMk` {n` uZxynl` y'b` Mj'Mj'xnnk` °`  
Ez`b` ` | l` XZx`{aZ` b`\_j| Zl` VZ`\_n\_Mj'nanj`Sn{aZx'Vnl` {xnj'Zx` y| Uy{Ml'VZy`Snx`{aZxb'XZxb` Ml'fZy`Snx` b` f'bnj`Mlbnl` n\_{aZ` ž` by{xb|`-y`  
y{ XZl {Mj'nanj` Ml'X` n{aZx'Xx|` ` unj'btZy°`  
Ez`aM'f'nx`{aM' b` {Zx'ZxZy', tña` MuZxynl` -y', nxi` nx'yVannj` uZx`\_nxk` Ml'VZ` nx'VxZMz`y` Ml' b` {tk` bXl' b` `Sany{tñZ`Snx`\_Zl` ybZ`  
VjMj'xnnk` Zl` fbnl` k` Zl {°`  
'` b` a{b` `SAMl' l` {b` `SUNl' b` `Sb` Vt' b` `SMl'X`pnx`Zl` Vn| xMl' b` `Ml' b` a{` nx'Xbyx| u{bnl`  
ž` byx| u{bnl` Ml'X` b` {tk` bXl'bnl` Vm|yZ` Ut` ` Ml'` nx` `xn| u` ytk` Unjynx` Zy{` xZy` Ml'` nx` `xn| u` uny{` xb` ` {n` ux'n'fni` Z` Mj'Z`X`Mlbnl` y`  
nx'Vnl`\_xnl` {Mlbnl` y°`  
<| ya`b` `nx'y{xb` b` `Mj'| XZl {`nx'y{M`\_k` Zk` UZx°`  
5 Uy{x| V{bnl`\_n\_VjMj'xnnk` `NW{bf'fZy`nxn{aZx'b` {Zl` {bnl` Mj'NW{bnl` {Ml'Zl` {n` Ml'Zk` u{` {n` ux'ZfZl` {`{aZ`{ZM'aZx`\_xnk` `Z` ZxMlyb` ` `  
abyjaZx` Mj'yb| Z`X`X| {bZy°`  
\* {Zx`Zx` ` , tña` {aZ`nxXZxj` t` nuZxMlbnl`\_n\_{aZ` VjMj'xnnk` `Ut` | yb` `S{axZMz| b` ` {n` | yZ`Snx`Vn| l` yZj` b` `n{aZxy` {n` | yZ` f'bnj`Zl` VZS`  
\_nxVZ`S`Vh`ZxMlbnl` S{axZMysb` {tk` bXl'bnl` SXMZy`Snx`Xbyx| u{bZ` k` ZMl'y°`  
ž` xZyyb` `nx` `xnnk` b` ` b` Mk` Ml'Zx`{aM' uxZyZl` {y`Ml'X` Ml'Zx`{n` aZMj' {a`nx'yMz` {t`SMl' yZy` b` {Zx'ZxZl` VZ', tña` VjMj'xnnk` , nxi` nx`  
VxZMz`y` VjMj'xnnk` `XbynXZx°`  
?Zy{xb|` b` `Ml'n{aZx'uZxynl` -y` zZZXnk` {n` uxnuZxj` | {tñ'fZ` VjMj'xnnk` `NW{bf'fZy`nx`Zw` tñk` Zl {°`

?ZuMZX VjMyxnnk `b {Zxx| u{bnl ySvnl\_xnl {b` y{M\_Mk | k Zl {MbzJtSnxk Mlb` Xbxx| u{bfZl nbyZy`  
Aaxn, b` nUfZV{y b {aZ VjMyxnnk`  
?ZuMZX Xbxx| u{bnl ynx fbnj M{bnl n\_VjMyxnnk` x| jZy`  
" .VZybfZ nx Xbxx| u{bfZ {Nj b`  
EzaMfbnx {aM Vm| yZy {aZ {ZMwaZxinxin {aZxy| XZl {y\_ZM'n\_uatybVjinxuytVanjn` bVjiaMk`  
<atybVjVnl\_xnl {Mbnl` nx fZxUjVj\_uatybVj {axZMy`  
` V{yn\_yZ. | NjiaMjyK Zl {`

@nk Z Xb\_ZXl {x| jZy MlX Vnl ybZxM{bnl y Muijt`\_nx y| XZl {y| | XZx {aZ` Xbfx| Mjy, tqa ž byMjgqZy" X| VM{bnl` V{ž` " ` A`2 ny{`  
y| XZl {y VnfZxZx Ut`ž` " ` yan| jX`aMfZ MUZaMfbnxujM`

<xnvZX| xZy {n\_UZ`\_njn, ZX`b` AZk unxMjt? Zk nfb` M@| XZl {`\_xnk` f jMy`  
" .VZu{, aZxZ {aZ UZaMfbnx|yZ. {xZk ZS` Zl ZxMjt M{ZMwaZxyan| jX, Ml` My{ XZl { {aM Vnl {b | ZX`k byUZaMfbnxk M` jZNX {n`  
{Zk unxMjt xZk nfbj`\_xnk` VjMy` H aZl {aZ xZk nfbj` by MiuXnuxbMZ S{aZ`\_njn, b` Vn| xyZy\_n` M{bnl` , bjj` UZ {MZl` ©  
` y{x| V{ {aZ y| XZl { {n` n {n {aZ`k N`b` n`\_bZ`\_nx {aZ` uZxM`X` n`\_xZk nfbj`" tqa ZxM` n{Z yan| jX` n, tqa {aZ y| XZl { nx`MMj`  
yan| jX` UZ` ujWZX` {n {aZ yZVxZ {Mjt` Z. ujn`b` b` {aZ y| M{bnl`  
5U{N`b` VnfZxMZ`\_nx {aZ VjMy` MlX` ZyVnx| {aZ y| XZl { {n {aZ`k N`b` n`\_bZ` yZyZ` Mjyby{MlVZ`  
H tqa b` {, Zl {t`\_n| x` ž B`Aan| xyinxnl Z` ž UAU| yb` ZyyXM` n`\_ {aZ` xZk nfbj` S, abVaZfZxbyjnl` ZxS {aZ {ZMwaZx`yaMj` y| Uk t{`n {aZ`  
U| tjb`b` ` uxb` VauNjinxabyjaZxXZyb| ZZ` Myan| MlX` Vnl VbyZ, xq{Zl` Z. ujm M{bnl` n`\_ {aZ` UMjy`\_nx`xZk nfbj`

<MZl {p1Z` Nj{ | MxibMl` 3n{b`b`M{bnl` <xnvZX| xZy`  
AaZ` U| tjb`b` ` uxb` VauNjinxXZyb| ZZ` yaMj` l` n{b{` {aZ` uMZl {p1Z` Nj{ | MxibMl` n`\_Mk` b` nxy| XZl {Sb` , xq{b` ` S. aZl` M{ZMwaZx`aMj`  
xZk nfbj` Mjy{ XZl {`\_xnk` MjMy` by` uXW{b` MjZ` M{Zx` {aZ y| XZl {y`xZk nfbj`\_xnk` MjMy` MlX` ujWZk Zl {XZ` Zxk` b` M{bnl`  
AaZ` l` n{b`b`M{bnl` yaMj` b` V| XZ` {aZ` xZyVnl` y`\_nx {aZ y| XZl {y`xZk nfbj`\_xnk` VjMy` MlX` {aZ` ujWZk Zl {XZ` Vbyl` b` fnjfb` ` {aZ`  
y| XZl {`  
\*\_{aZ` xZk nfbj`\_xnk` VjMy` MlX` unx` VaMl` Z` b` ZX| VM{bnl` Nj`ujWZk Zl {b` fnjfyMjy{ XZl {, tqa` MxbyMjgqZy` S`uMZl {p1Z` Nj{ | MxibMl`  
l` n{b`b`M{bnl` yaMj` UZ` k` MZ` Vnl` yb{Zl {, tqa` @MZ` MlX` XZxMj` jM` yMlX` xZ` | jM{bnl` y`  
\*\_{aZ` y| XZl {xZk nfbj`\_xnk` MjMy` by` Njyn` y| UfZV{ {n` Xb` Vauj`b` Mjt` M{bnl` \_nx {aZ` uM{b| jM` VjMyxnnk` Vnl` X| V{ ž B` S`  
y| yuZl` ybnl` nx` Z. u| jybnl` AS {aZ y| XZl {y` uMZl {p1Z` Nj{ | MxibMl` yaMj` Njyn` UZ` l` n{b` Z` X` n`\_ {aZ` Xb` Vauj`b` Mjt` M{bnl` b` M` Vnx` MlVZ`  
, tqa` jZ` Nj` MlX` unj`b{` xZw` bZk Zl {y`

@| XZl {Vnl` X| V{nl` nx` M` MZl { {n` yVannj` uxZk byZySnl` yVannj` fZabjZyS MlX` Ml` yVannj` xZj` MZx` ZfZl {y` MlX` M{b` f` qZy` yaMj` UZ`  
` nfbj` ZX` Ut` {aZ` x| jZy` MlX` unx` fbybnl` y` n` {aZ` @| XZl {t` nXZ` n`\_ jMyxnnk` t` nl` X| V{` \*` MxibMl` S{y| XZl {Vnl` X| V{nl` b` Zx| Zl` UjWZX`  
ynVbyk` ZX` b` Vn| {jZ` yS{y` Va` Mj` MZ` Enni` SA, tqa` ZxS2` t` @uMZ` Sjn| A| UZS` ZV`, aZl` y| Va` Vnl` X| V{`\_nxk` y` Mjy| \_bVZl {Vnl` l` ZV{bnl` {n`  
yVannj` nx` y{M` Sby` nfbj` ZX` Ut` {aZ` t` nXZ` n`\_ nl` X| V{`

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AaZ` u| xunyZ` n`\_ {aZ` H` Ml` {nk` M` xZM` @annj` ž by{x`b{ ž H` @` A` @| XZl {ž` xZy` t` nXZ` by{`n` unx` ZV{ {aZ` aZMj` {a` MlX` yMZ` {t` n`\_ Nj` b` Xbfx| Mjy`  
Mjyn` Vb` MZ` , tqa` {aZ` yVannj` yunl` yn` xZ` ZfZl {y` {n` Mjyby{` b` unxk` n{b` ` ZX| VM{bnl` Nj` n` Mjy` MlX` {n` xZk` nfbj` b` Zx` ZxZl` VZ` , tqa` {aZ`  
ZX| VM{bnl` Nj`k` bybnl` n`\_ {aZ` H` Ml` {nk` M` xZM` @annj` ž by{x`b{`

\* Vn| l` {MjgqZy`\_nx` y| XZl { MiuZM` MlVZ` b` {aZ` H` @` by{ {aZ` xZy` unl` yb` gqZy` t`\_ny| XZl {y` MlX` uMZl {y` {n` VxZMZ` MjMZ` SxZy` ZV{ | jSMlX`  
uny` t` fZjZMl` b` ` Zl` fbnl` k` Zl {` \*` jVjn` {ab` ` yan| jX` UZ` MiuXnuxbMZ` {n` {aZ` y| XZl {y` MZS` {aZ` yVannj` Vnk` k` | l` t` SMI` X`\_nx` , ZM` aZ`  
Vnl` Xq{bnl` y` @| XZl {y` MZ` xZw` bZx` {n` yZ` ` nn` X` H` X` k` Zl {S{`n` xZy` ZV{ {aZk` yZj` fZy` MlX` n` {aZ` xyS MlX` {n` XZk` nl` y{` MZ` k` nXZy` {+` AaZ`  
XxZy` VnXZ` Muij` ž y` Mjy` {t`k` Zyb` Vj| Xb` ` SU| {l` n{` jtk` t` Zx` {nS, aZl` Ml` b` Xbfx| Njy` y` t` b` S{y` {nnull` ` S{y` MlX` b` SZV{` AaZ` XxZy` VnXZ`  
, bjj` M` Vnk` k` nX` MZ` y| XZl {y, anyZ` jZ` t` k` MZ` xZj` b` bn| y` UZ` ž` y` xZw` bZ` nx` Zl` Vn| xMZ` VZx` N`b` {tuZy` n`\_ XxZy` nx` MZ` yyn` xZy`

\* j` uMl` {y`k` | y{` UZ` yZV| xZMl` {aZ` , Mjy{` MlX` VMI` l` n{` XxM` nl` {aZ` j` nnx`

3n` anjZy` b` Vjn` {ab` ` M` VnfZ` {aZ` i` l` ZZ`

EZj` {y` MlX` yan| jX` Xy` {x` Mjy`k` | y{` UZ` , nxl` b` {aZ` k` Ml` Zx` n`\_ {aZ` b` b` Zl` {bnl`

<M` Mj` MZl` n{` Nj`n, ZX` {n` UZ` , nxl`

@nx` {y` MlX` y| b` {y{` tuZ` ` M`k` Zl` {y`k` | y{` l` n{` xZfZMl` | XZx` M`k` Zl` {y` MlX` unx` MZMjy` {aMj` yan| jX` UZ` VnfZ` xZx`

\* j` Vjn` {ab` ` k` | y{` VnfZ` xVaZy` {M` ZM` MlX` UZj`n, " Zl` {bZ` yan| jX` Zx` uMl` p{nk` M` Wa` MZM` MlX` Nj` | l` XZx` M`k` Zl` {y`

5fZxjt` {b` a{` MlX` tk` unx` Zxjt` t` b` b` ` M`k` Zl` {y` fZ, ZX` S` Mjy` Mxby` {x` W{bnl` S, bjj` l` n{` UZ` Nj`n, ZX`

5fZxjt` j` nnyZ` MlX` b` MiuXnuxbMZ` jt` t` b` b` ` Vjn` {ab` ` fZ, ZX` Mjy` MjMZ` {t` Vnl` VZx` S, bjj` l` n{` UZ` Nj`n, ZX`

ž` ZfZj` nuk` Zl` {Nj` t` MiuXnuxbMZ` | l` XZx` M`k` Zl` {y`k` | y{` UZ` , nxl` Ml` Njy` {t`k` Zyb` {aZ` k` Ml` Zx` n`\_ {aZ` b` b` Zl` {bnl`

@anZy, tqa` j` MZ` X`k` | y{` UZ` {bZ` X` 3nl` k` Ml` b` ` tk` yanZy`k` | y{` UZ` , nxl` nl` {aZ` ` tk` j` nnx` X| x`b` ` uatyb` Vj` ZX| VM{bnl`

\* l` t` M{b` jZ` @` . uxZy`bnl` y` n`\_ nUyVZl` t` t` SxZuxZyZl` {Mbz` n`\_ bjjZ` Nj` UZaMfbnx` unxk` n{bnl` n`\_ y| Uy` MlVZ` | yZ` MlX` Ml` yZ` AS`

XZk` ZMl` b` ` {n` n{aZ` xy` x` W` by` S` xZj` b` bn| yS` yZ. by` nx` Z` {al` b` b` y` V` u`bnl` y` AS` Vnl` {N`b` yZ. | Nj` X` Z` xZl` VZy` un` | UjZ` k` ZMl` b` ` y`

MiuMZ` j` yb| yS` ytk` Unj` b` n`\_ Ml` ` xZj` MZ` X` W{b` f` t` S` nx` yZ. | Nj` t` y| ` Zy` {bZ` MZ` Njy` {x`b` {t` unx` a` b` Z` X`

t` a` N`b` y` MlX` y` tk` b` N`b` t` k` y` MZ` l` n{` {n` UZ` , nxl` nx` V` M` xZ` X` Ml` Ml` t` {t`k` Z`







ZI\_nxVZk ZI {MZI Vt VaMk ZX, tfa xZyuni ydubqf' nxaMlXjb` y| Va b' fZy{b Mlbnl yMlX Vtk Zy" I t' xZunx{yk MZ' {n {aZ' jnVnI VaLjX' unx{ZV{bnl yZxfbZ' nx{ n' jnVnI jM' ZI\_nxVZk ZI {yaMj' n {Zk b' MZ' {aZ' t' 5f'nUj b' Mlbnl MlX xZyuni ydubqf' {n Vnl {b | Z' {n b' fZy{b MZ' Mvkn ujNb {n\_aMlMyyk ZI {H abj' {aZ' t' 5yk M', nxi VhnuZxMlYzj', tfa n' {yXZ MZI VZy' {n Vnl X| V' Vnl V| xZl {b' fZy{b Mlbnl ySb' I n' ZfZl {yaMj' {aZ' aMlMyyk ZI {b' fZy{b Mlbnl UZ' b' abubqZ X Ut' {aZ' b' fnj' fZk ZI {n\_n' | ybXZ MZI VZy', tfa n' {n' nX VMl yZ MlZx' Vnl y| j' Mlbnl', tfa {aZ' z' by' xD' {Xk b' by' xMl nxa"

EB11J \*3( '1z \*a? \*A' <51 \* J 'aaUa'OU'

AaZ' EnMXX n\_ " X| VMlbnl 'by' Vnk k t' {ZX' {n' unx' f' b' b' ' MjMZ Suny' t' b' Z' SuxnX| V' {b' Z' SMI X' l' | x| b' x' b' ' ZX| VMlbnl MjZI f' bnI k ZI {n' x' Mj' n' t' f' y' | XZl {y' a' E' | j' j' t' b' ` {n, MXX Mj' | XZl {b' y' y' x' b' f' j' t' u' x' n' a' b' u' b' q' Z' X' M' l' X', t' j' l' n' l' UZ' {n' j' Z' x' M' Z' X' a' A' a' b' y' u' x' n' a' b' u' b' q' t' b' l' n' l' b' V' j' X' Z' y' u' a' t' y' b' n' j' S' f' Z' X' U' N' j' S' M' l' X' u' y' t' V' a' n' j' n' b' n' j' M' l' y' Z' b' V' j' X' b' ` M' l' t' ` Z' y' | x' Z' y' S' V' n' k' k' ZI {y' S' {a' x' Z' M' y' S' n' x' W' t' b' l' n' y', a' b' v' a' V' M' l' y' Z' n' x' {a' x' Z' M' ZI {n' V' M' l' y' Z' U' n' X' b' t' a' M' k' n' x' u' Z' x' y' n' l' M' j' X' Z' x' M' l' n' a' A' a' b' y' u' n' j' b' t' M' d' u' j' t' Z' y' {n' M' j' W' t' b' f' t' Z' y' b' {a' Z' H' M' | n' k' M' a' v' a' n' n' j' z' b' y' x' b' f' S' b' V' j' X' b' ` M' l' t' b' t' Z' y' n' l' | y' Z' S' j' Z' M' j' Z' X' n' x' n, I Z' X' y' V' a' n' n' j' u' x' n' u' Z' t' S' y' V' a' n' n' j' x' z' j' M' Z' X' | I V' t' b' l' y' n' x' Z' f' ZI {S' n' x', a' b' j' Z' {x' M' f' Z' b' ` {n' n' x' x' n' k' y' V' a' n' n' j' n' x' {n' M' l' X' x' n' k' y' V' a' n' n' j' y' u' n' l' y' n' x' Z' S' y' V' a' n' n' j' M' d' u' x' n' f' Z' X' n' x' y' V' a' n' n' j' x' z' j' M' Z' X' W' t' b' f' t' n' x' | I V' t' b' l' n' x' Z' f' ZI {n' y' V' a' n' n' j' u' x' n' u' Z' t' b' {a' Z' y' | XZl {b' y' M' l' M' t' y' V' a' n' n' j' x' z' j' M' Z' X' W' t' b' f' t' S' b' j' X' x' b' u' n' x' M' a' j' Z' b' V' Z' f' ZI { | I XZx' {aZ' y| uZxfybnl n\_yVannj M| anxtqZy"

E| j' j' t' b' ` by' u' x' n' a' b' u' b' q' Z' X' U' t' E' n' M' X' < n' j' b' t' a' a' U' a' O' U' ° E' | j' j' t' b' ` by' XZ' b' Z' X' M' j' X' Z' j' b' Z' X' M' Z' n' x' b' {Zl {bnl MjUZaMfomx| yb` , nxXy' n' x' W' t' b' l' n' y' S' b' {Zl XZx' {n' V' M' l' y' Z' Z' M' S' b' {t' k' b' X' M' l' n' l' S' n' x' a' M' k' a' E' | j' j' t' b' ` k' M' t' UZ' M' k' Z' u' Z' M' Z' X' U' Z' a' M' f' o' m' x' M' l' X' b' f' n' j' f' Z' y' M' l' t' k' U' N' j' M' l' V' Z' n' u' n, Zx' a' | x' {a' Z' x' k' n' x' Z' S' t' k' M' t' UZ' y' Z' b' n' | y' Zl n' | a' {n' l' Z' M' b' f' Z' j' t' t' k' u' W' t' M' y' | XZl {y' Z' X' | V' M' l' n' l' M' j' S' u' a' t' y' b' n' j' S' n' x' Z' k' n' {bnl Mj, Zj' j' UZ' b' ` a' E' | j' j' t' b' ` I Z' Z' X' l' n' l' UZ' U' N' j' Z' X' n' l' M' l' t' < n' {Z' V' Z' X' t' a' M' l' W' t' Z' x' b' f' y' a' E' | j' j' t' b' ` UZ' a' M' f' o' m' x' b' y' Z' y' {n' {aZ' j' Z' f' Z' j' n' a' M' l' M' y' k' ZI {, aZl {aZ' u' x' n' a' b' u' b' q' Z' X' Vnl X| V' {y' U' N' j' Z' X' | u' n' l' {aZ' y' | XZl {y' y' Z' . j' b' V' j' X' b' ` x' M' l' y' ZI XZx' y' | M' l' y' S' V' a' M' l' Z' n' y' Z' . S' n' x' ZI XZx' b' XZl {t' f' S' x' W' Z' V' n' j' n' x' S' l' M' l' n' l' M' j' n' x' b' b' S' x' Z' j' b' t' n' l' S' V' Z' Z' X' S' M' l' V' Z' y' (x' t' S' k' M' t' M' j' n' x' u' M' ZI {M' j' y' | M' l' y' S' y' Z' . | M' j' n' x' ZI {M' l' n' l' u' a' t' y' b' n' j' S' k' ZI {M' j' S' Z' k' n' {bnl M' j' n' x' j' Z' M' l' b' ` X' b' y' U' b' q' f' t' S' n' x' M' l' t' n' {aZ' x' V' a' M' l' W' t' Z' x' b' f' y' u' x' n' {Z' V' Z' X' U' t' ` Z' X' Z' x' y' n' x' @ M' Z' V' b' j' x' b' a' f' y' a"

@ABz " 3Až \*a \* <1\*3" '1z \*a? \*A' <51 \* J 'aaUO'

AaZ' EnMXX n\_ " X| VMlbnl 'Ml' l' n, jZx' Zy' {aM' Vnl X| V' {y' V' n' j' y' z' j' t' x' z' j' M' Z' X' {n' j' Z' M' l' b' ` M' l' X' {aM' M' l' Z' Z' V' {b' Z' b' y' x' | V' t' b' l' n' l' M' j' u' x' n' x' M' l' x' z' w' b' z' y' M' l' n' x' Z' x' j' t' y' V' a' n' n' j' ZI f' b' n' l' k' ZI {S, a' b' v' a' b' y' S' b' u' M' t' S' x' Z' j' V' Z' X' b' {aZ' UZ' a' M' f' o' m' x' n' y' | XZl {y' a' AaZ' EnMXX yaMj' xZw' bZ' Z' M' a' y' | XZl {n\_ {a' b' y' z' b' y' x' b' f' {n' M' k' a' Z' x' {n' {aZ' t' n' X' Z' n' l' n' l' X| V' {u' n' k' | j' M' Z' X' U' t' {aZ' M' k' b' b' y' x' M' l' n' l' M' l' X' {n' y' | U' k' t' {n' y' | V' a' X' b' y' V' a' j' b' M' t' k' Z' M' j' x' Z' y' M' j' M' Z' M' d' u' x' n' u' x' t' M' Z' j' t' M' y' b' l' Z' X' n' x' b' x' M' W' t' b' l' n' {a' n' y' Z' x' j' Z' y' a"

- @ Va x| jZy yaMj' xZw' bZ' {aM' y' | XZl {y' ©
- ° a Vnl\_nxk {n' x' Z' M' y' n' l' M' j' Z' y' {M' l' X' M' X' y' n' y' n' V' b' j' j' t' ' N' W' Z' u' {M' j' Z' UZ' a' M' f' o' m' x' "
- E° xZy uZV' {aZ' uZxynl MlX' u' x' n' u' Z' x' t' n' n' {aZ' x' y' "
- t° u' x' Z' y' z' x' f' Z' {aZ' XZ' xZ' n' n' x' XZ' x' l' ZV' z' y' M' t' {n' {aZ' Z' X' | V' M' l' n' l' M' j' u' x' n' x' M' l' b' ` , a' b' v' a' {aZ' t' M' k' ZI ` M' Z' X' "
- ž° xZy uZV' {aZ' x' b' a' f' y' n' n' {aZ' x' y' "
- "° nUZ' t' Vnl y' t' {Z' X' M' l' {a' n' x' t' f' t' M' l' X' x' Z' y' u' n' l' X' {n' {a' n' y' Z' , a' n' a' n' j' X' {a' M' l' M' l' {a' n' x' t' f' t' a"

AaZ' z' by' x' b' f' {Xk b' by' x' M' l' n' x' y' a' M' j' u' x' n' k' | j' M' Z' M' k' b' b' y' x' M' l' b' f' Z' ` | b' X' Z' j' b' Z' y' n' x' y' | XZl {Vnl X| V' , a' b' v' a' V' M' l' t' n' l' { {aZ' u' | x' u' n' y' Z' n' {a' b' y' u' n' j' b' t' M' l' X' @ M' Z' l' n' {M' l' U' b' q' x' M' t' U' | {U' Z' M' k' M' Z' M' y' n' l' M' j' Z' x' z' j' M' l' n' l' y' a' b' u' {n' {aZ' l' Z' Z' X' {n' k' N' b' {N' b' M' y' V' a' n' n' j' ZI f' b' n' l' k' ZI {Vnl X| V' b' Z' {n' j' Z' M' l' b' ` X' n' l' n' {X' b' y' V' t' k' b' M' Z' M' k' n' l' ` y' | XZl {y' X' n' l' n' {XZk Z' M' l' y' | XZl {y' X' n' l' n' {f' o' n' j' M' Z' M' l' t' b' X' b' f' X' | M' j' x' b' a' y' Vnl y' t' { | t' b' l' n' l' M' j' t' ` | M' M' l' {Z' Z' X' {n' y' | XZl {y' a"

AaZ' z' by' x' b' f' {Xk b' by' x' M' l' n' x' y' a' M' j' XZy' b' l' MZ' y' M' l' V' t' b' l' y' S' Z' . M' j' X' b' ` V' n' x' u' n' x' M' j' u' l' l' b' y' a' k' ZI {S' n' x' {aZ' b' x' M' W' t' b' l' n' y' n' x' j' Z' y' , a' b' v' a' y' a' M' j' © x' z' j' M' Z' b' i' b' X' M' l' X' XZ' xZ' Z' {n' {aZ' b' x' M' W' t' b' l' n' a' Z' j' u' {aZ' y' | XZl {j' Z' M' l' {n' {M' Z' x' Z' y' u' n' l' y' d' u' b' q' f' t' n' x' a' b' y' a' Z' x' M' W' t' b' l' n' y' UZ' X' b' Z' V' {Z' X' S' , aZ' x' z' u' n' y' y' b' u' j' Z' S' {n' XZ' | VZ' {aZ' Z' Z' V' y' n' M' l' t' a' M' k' , a' b' v' a' k' M' a' M' f' Z' UZ' ZI V' M' l' y' Z' X' U' t' {aZ' y' | XZl {f' y' k' b' y' Vnl X| V' t' a"

AaZ' U' l' b' X' b' ` M' k' b' b' y' x' M' l' n' x' y' a' M' j' a' M' f' Z' {aZ' M' l' {a' n' x' t' f' t' n' M' y' b' l' X' b' y' V' a' j' b' Z' {n' y' | XZl {y' S' y' | U' t' Z' V' {n' z' b' y' x' b' f' {M' k' b' b' y' x' M' l' b' f' Z' ` | b' X' Z' j' b' Z' y' M' l' X' {aZ' y' | XZl {f' y' X' | Z' u' x' n' V' z' y' x' b' a' f' {n' l' n' {b' Z' S' a' Z' M' t' b' ` S' M' l' X' M' d' u' Z' M' j' "

AZ' M' a' Z' x' y' M' l' X' n' {aZ' x' Z' k' u' j' n' t' Z' Z' y' n' {a' b' y' E' n' M' X' a' M' f' b' ` x' Z' y' u' n' l' y' d' u' b' q' f' t' n' x' {aZ' y' | u' Z' x' f' y' b' n' l' n' y' | XZl {y' y' a' M' j' a' M' f' Z' {aZ' M' l' {a' n' x' t' f' t' n' {M' Z' y' | V' a' k' Z' M' l' y' M' j' k' M' t' UZ' l' Z' V' z' y' M' t' {n' Vnl {x' n' j' {aZ' X' b' y' n' x' Z' x' j' t' Vnl X| V' {n' y' | XZl {y' b' M' j' y' t' q' | M' l' n' l' y' M' l' X' b' ` M' j' u' j' M' Z' y' , aZ' x' z' y' | V' a' y' | XZl {y' M' Z' , t' f' a' b' {aZ' t' h' x' b' y' x' b' f' t' b' l' n' {a' b' y' E' n' M' X' M' l' X' , aZl y' | V' a' Vnl X| V' {b' Z' x' Z' x' Z' y' , t' f' a' {aZ' Z' X' | V' M' l' n' l' M' j' u' x' n' x' M' l' n' {aZ' y' V' a' n' n' j' y' n' x' {a' x' Z' M' ZI y' {aZ' aZ' N' j' {a' M' l' X' y' M' Z' {t' n' n' {aZ' x' y' a"

\*31a ) 551ž \*a \* <1\*3" '1z \*a? \*A' <51 \* J 'aaUO'U'

\* by' {aZ' u' | x' u' n' y' Z' n' {a' b' y' u' n' j' b' t' {n' u' x' n' f' b' Z' M' l' M' j' Z' l' M' l' b' Z' {n' n' l' {n' y' V' a' n' n' j' y' | y' u' ZI y' b' n' l' S' b' y' V' a' n' n' j' X' b' y' V' a' j' b' Z' , t' j' n' l' j' t' UZ' n' Z' x' Z' X' M' l' {aZ' X' b' y' V' x' Z' t' b' l' n' {aZ' U' l' b' X' b' ` M' k' b' b' y' x' M' l' n' x' y' a' M' j' n' x' n' ZI y' Z' y' n' | I X' b' {aZ' @ | XZl {t' n' XZ' n' l' n' l' X| V' t' a' 3' n' y' | XZl {b' y' {n' UZ' XZ' {N' b' Z' X' M' l' Z' x' {aZ' V' j' n' y' Z' n' {aZ' x' Z' | j' M' k' y' V' a' n' n' j' X' M' l' | I j' Z' y' y' {aZ' y' | XZl {f' y' u' M' ZI {a' M' y' UZ' ZI Vnl {M' W' t' Z' X' M' l' X' b' n' x' k' Z' X' {aM' l' {aZ' y' | XZl {, t' j' UZ' XZ' {N' b' Z' X' a' 3' n' y' | XZl {y' a' M' j' UZ' x' Z' | y' Z' x' M' l' y' u' n' x' {M' l' n' l' y' Z' x' f' b' Z' y' | I t' b' {aZ' u' M' ZI {a' M' y' UZ' ZI l' n' {b' Z' X' M' l' X' n' {aZ' x' y' | t' M' j' Z' x' M' l' y' u' n' x' {M' l' n' l' M' k' M' l' Z' k' ZI {y'

aMfZ UZZI k MKZ<sup>a</sup> 3n{bMl} {n {aZ uMzi} {by {aZ xZyuni yubjt n\_z by {xv} uZxynl I Zj Ml X yan| jX UZ k MKZ uxnuX{n {aZ XZuM} xZ n\_ yVannj U| yZy<sup>a</sup> \*MuMzi} VMI n{UZ Vnl {NW{ZXS{aZ ValjX yan| jX UZ XZ{Ml ZX n| Ml n{aZ X M<sup>a</sup>

@B@ " 3@53 " 3z " I <B1@53 " z \*A? \*A <51 \* J aaUu "

AaZ EnMx n\_ " X| VMI n| xZVn | bZy {aM Z. V| ybni \_xnk ZX| VMI n| Ml uxn\_ xM y n\_ {aZ @annj z by {xv} {SUT y| yuzi ybni nxZ. u| jybni Sby My| Uy{M {blyM V{bni Ml X{aM y| Va M{bni k | y| Vnk ujt . tga {aZ y| XZl {fy X| Z uxnuZy yx b a fy<sup>a</sup>

@B@ " 3@53 :

" y| XZl { k M UZ y| yuzi XZX My| XZl { \_nx| u{ n\_ bZ jaAyVannj XMy nx Sb M n{bZ n\_Z. u| jybni aZ Mb ` aM y UZZI yZl {S\_nx| u{ n\_ bZ Zl jUaAVnl yZV| bZ yVannj XMy Snx Zl jUaAVnl yZV| bZ yVannj XMy \_nx ZMw b VxZl { b\_ {aZ y| XZl { by Zj b b jZ \_nx yuZV Mj ZX| VMI n| yZ xfbZ y| I XZx t aM {Zx Ua SH by<sup>a</sup> @M y<sup>a</sup>

AaZ y| yuzi ybni k | y| UZ xZMynl Mlj t h y{bZ X UMZX| un| {aZ ` xn| I Xy M {anx bZ X| I XZx @V<sup>a</sup> UYU<sup>a</sup> bSH by<sup>a</sup> @M y<sup>a</sup> S. abVa b V| XZSU { MZl n| jtk tZ X{ n@ n| Vnk ujb M VZ . tga yVannj x| jZ ynx EnMx x| jZ y` i I n. b ` jt Vnl fZ t b ` Ml t {axZ M nx Mj Z b \_nxk Ml n| Vnl VZl b ` Ml M{Zk u{ nx Mj Z` ZX M{Zk u{ UZ b ` k MKZ nx {n UZ k MKZ {n XZy {xnt Ml t yVannj uxnuZx{ t Ut k ZMl y n\_Z. ujn ybZ y Vnl X| V{ Ut {aZ y| XZl { , abZ M yVannj nx , abZ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM Zl XMI ` Zxy {aZ uxnuZx{ t SaZ M {a S nx y M Z { t n\_ n {aZ y Vnl X| V{ , abZ I n{ M yVannj nx , abZ I n{ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM Zl XMI ` Zxy {aZ uxnuZx{ t SaZ M {a S nx y M Z { t n\_ n {aZ y M yVannj nx | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { nx Vnl X| V{ , abZ I n{ M yVannj nx , abZ I n{ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM Zl XMI ` Zxy {aZ uxnuZx{ t SaZ M {a S nx y M Z { t n\_ Ml t Zk ujt ZZ nx @annj EnMx k Zk UZ x n\_ {aZ z by {xv} b ` , abVa {aZ y| XZl { by Zl xnjj ZX<sup>a</sup>

AaZ z by {xv} Xk b by {xM nx S{aZ ux b Vnu Mj Snx M{Z M w a Z x X Z y b I M Z X Ut {aZ @annj z by {xv} Xk b by {xM nx ya Mj y| yuzi X M y| XZl { b\_ {aZ y| XZl { uny yZy X M b Z M k S M y X Z b Z X b Ua B<sup>a</sup> @ a a Y U j M y P a S , abZ M yVannj nx , abZ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t<sup>a</sup>

" I <B1@53 :

AaZ EnMx k M Z. uZ j M y| XZl { n| jt , aZl t by M l y b Z X {aM {aZ b {Z z y {n\_ {aZ yVannj XZk Ml Xy {aZ y| XZl { fy Z. u| jybni Ml X n| jt , aZl {aZ y| XZl { @ZuZ M Z X j t x Z \_ j Z X n x l Z j Z V Z X {n n U Z t {aZ x| j Z y Z y {M l j b a Z X Ut {aZ @annj z by {xv} i I n. b ` jt Vnl fZ t Z X n x V M j y Z X {n U Z Vnl fZ t Z X Ml t {axZ M nx Mj Z b \_nxk Ml n| Vnl VZl b ` Ml M{Zk u{ nx Mj Z` ZX M{Zk u{ UZ b ` k MKZ nx {n UZ k MKZ {n XZy {xnt Ml t yVannj uxnuZx{ t Ut k ZMl y n\_Z. ujn ybZ y Zl ` M Z X b Vnl X| V{ , abZ M yVannj , abZ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM Zl XMI ` ZxZ X {aZ uxnuZx{ t SaZ M {a S nx y M Z { t n\_ n {aZ y Zl ` M Z X b Vnl X| V{ , abZ I n{ M yVannj nx , abZ I n{ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM Zl XMI ` ZxZ X {aZ uxnuZx{ t SaZ M {a S nx y M Z { t n\_ Ml t Zk ujt ZZ nx EnMx k Zk UZ x n\_ {aZ @annj z by {xv} b ` , abVa {aZ y| XZl { by Zl xnjj ZX<sup>a</sup> nx , M y M j Z M y { y b {Z Zl j U a A t Z M y n j X M l X a M x Z u Z M Z X j t Zl ` M Z X b Vnl X| V{ , abZ M yVannj nx , abZ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t { aM X b y x| u Z X {aZ M l j b t n\_ y Vannj M {anx t Z y {n k M b {M b n x X z n x M l Z X| VMI n| M j M k nyua Z x Z M yVannj nx M l M l M l b t y| u Z x f b Z X Ut M y Vannj M {anx t M l X {aM y| Va Vnl X| V{ X b X l n {n {aZ , b Z Vnl y {t | Z ` xn| I Xy \_nx Z. u| jybni<sup>a</sup> nx u| xuny Z y n\_ {a b y un j b t S Vnl X| V{ {aM Zl XMI ` Zxy M u Z xynl nx uxnuZx{ t b V| X Z y k M l b ` M {axZ M {n {aZ a Z M {a n x y M Z { t n\_ M u Z xynl nx k M l b ` M {axZ M {n X M l M Z uxnuZx{ t<sup>a</sup>

AaZ @annj EnMx ya Mj Z. uZ j M y| XZl { \_xnk yVannj \_nxl n{ jZy y{aM n| Z jUa t Z M , aZl Z fZ x t b Xy {aM {aZ y| XZl { Uxn| ` a{ M \_b Z M k {n yVannj nx S , abZ M yVannj nx , abZ | I XZx {aZ y| uZ xfbz bni n\_ M yVannj M {anx t S uny yZy X M b Z M k S M y X Z b Z X b Ua B<sup>a</sup> @ a a Y U j M y P a S | I jZy {aZ EnMx b Xy {aM {aZ u| l byak Zl { yan| jX UZ xZl VZ X UMZX| un| {aZ Vxv| k y{M VZ y n\_ {aZ b VxZl {<sup>a</sup> AaZ z by {xv} ya Mj x Z X Ml t y| XZl { , an Uxb ` y M b Z M k j M y X Z b Z X b Ua B<sup>a</sup> @ a a Y U j M y P a S nx M Z M n l {n yVannj {n {aZ Vxk b M j h y {b Z nx h fZl b Z X Z j b w Zl Vt yty Zk<sup>a</sup>

@B@ " 3@53 μ" I <B1@53 5' @ABz " 3A@H \*A) z \*@ E \*A \* @ <51 \* J aaUu "

\* k M {Zxy xZ M b ` {n {aZ Xy Vnuj b b ` n\_ y| XZl {y , tga Xy M l j b t Z y S {aZ EnMx n\_ " X| VMI n| ya Mj M l b Z Ut ` X Z X y j M l X @ M Z j M y<sup>a</sup> AaZ z by {xv} Xk b by {xM nx ya Mj Z y {M l j b a M k b by {xM b Z ` | b Z j b Z y M l X Zl y xZ {aZ t M Z uxnuZx{ t k uZk Zl {Z X , aZl Xy Vnuj b b ` Ml t y| XZl { , tga Xy M l j b t Z y<sup>a</sup>

z B " <?5I " @? \* ( ) A@1 z \*A? \*A <51 \* J aaUu "

AaZ EnMx n\_ " X| VMI n| xZVn | bZy {aZ tk unx {M VZ n\_ y M Z | M X b ` M y| XZl { fy Vnl y {t | bni M j x b a {y S u M {b | j M j t , aZl y| UZ V{ {n {aZ z by {xv} {fy Xy Vnuj b M t uxnuZx{ xZ y<sup>a</sup> An UZ {Zx Zl y| xZ M l uxnuZx{ M Z X| Z l uxnuZy y by uxnuZx X M y| XZl { S {aZ EnMx Z y {M l j b a Z y {aZ \_nj n , b ` | b Z j b Z y<sup>a</sup>

@| XZl {y y| UZ V{ {n y| yuzi ybni @AaZ y| yuzi XZx y| XZl { {aZ uMzi {n\_ {aZ y| yuzi XZx k b nxy| XZl { ya Mj UZ ` bZl uxnu u{ I n{ bZ M l X x Z M y n l \_nx {aZ y| yuzi ybni<sup>a</sup> AaZ y| XZl { nx {aZ y| XZl { fy uMzi {y k M , tga b b Z jaAyVannj XMy \_nj n , b ` {aZ UZ b l b ` n\_ {aZ y| yuzi ybni SaM fZ M n l \_Z X l VZ , tga {aZ z by {xv} Xk b by {xM nx y M l nuunx| I t t \_nx M x Z y n l y Z {n {aZ Va M Z y M M b y {at k j a Z x<sup>a</sup> \* {aZ ` Xk b by {xM nx b Xy {aM {aZ y| XZl { , M y y| yuzi XZx | I M j t nx | I h y j t nx {aM {aZ y| XZl { y| \_Z X Z | I X| Z Vnl y Z w Zl VZ y M y {aZ xZ y| j {n\_ y| yuzi ybni S {aZ y| XZl { fy xZ Vnx ya Mj UZ Z. u| l ` Z X<sup>a</sup>

@| XZl {y|y| UfZV{ {n'Z.u| jytol @<xtnx{n'Z.u|zjbb` My{| XZl {S{aZ`EnMxk` |y{anjX'MaZMb` °° y{| XZl {MIX'abyaZxuMZl {k` |y{UZ`  
`bfZl` , xq{Zl` l n{bVZ`n\_{aZ`b` {Zl` {bnl` {n'Z.u|zj} MIX{aZ`xZMynl y{aZxZ`nxZSMjZMj{`bfZ`jaAXMyuxtnx{n'az`XMZ`n\_{aZ`aZMb` `°AaZ`  
aZMb` `by{aZ`nuunx{| l qf`\_nx{aZ`y{| XZl {MIX'abyaZxuMZl {n' MduZMx` , lqa` MxZuxZyZl {MbfZ`nxjZ` NjVn| l yZj`UZ`nxZ`{aZ`EnMx`{n`  
Mly, Zx{aZ`VaMx` Zy°AaZ`EnMx` , lji`i`ZZu` , xq{Zl` k`b` | {Zyn\_{aZ`aZMb` `°AaZ`aZMb` ` , lji`UZ`VjnyZX°AaZ`y{| XZl {MIX'pnx'abyaZx`  
uMZl {k` M' MduZMj{aZ`Z.u| jytol` Vnl` ybyZl` { , lqa` t`aMl{Zx`UYU°UPSH by°@|My°

A

=J""DFC; F5A G5B8 57H=J =H=9G

(?°ž\*3(1ž\*Q?†A<51†J`àBŸÜ

AaZ`EnMx`n`"X| VMlbnl` xZVn` l bZy`kyxZyuni` yb`lqf`\_nx`uxn`f`b`b` `Myty{Zk` n`"xMk`b` `y{| XZl {MwalZ`fZk` Zl` {faM`VMl`aZju`{aZ`  
y{| XZl {S{ZMwaZxySMIX`uMZl` {y|h`X`Z`uxnuXj`+an` , , Zjj`{aZ`y{| XZl {by`MwalZ`f`b` ` {aZ`n`Mjyn\_{aZ`ž`yb{x`b{f`y`uxn` xMk` °

°jj`Vn| xyZySb`V| Xb` `† MZZx`MIX`AZVal` b`Mj`"X| VMlbnl` Vn| xyZySMZ`Mf`Mj`MjZ` , lqan| {XbyVtk` b` Mlbnl` UMYZX`nl` xNWZ`SVnjnx`SxZj`b`bnl` S  
l`Mlbnl` Nj`nxb` b` SMl`VZy{x`f`SvZZX`SuxZ` l`Ml`Vt`Sk` Ml`Njy{M| ySuMZl` {Njy{M| ySyZ` . Nj`nxtZl` {Mlbnl` SyZ` . S`j`b`V| Xb` ` {xMl`y`Zl` XZx`y{M| yS  
VaMl`Z`n`yZ` . nx`Zl` XZx`bXZl` {lqf`\_nx`uaty`b`Mj`Sk` Zl` {Mj`Sk` n{bnl` Mj`SnxjZMl` b` `Xby`Ml`lqf`\_nx`uaty`b`Mj`Sk` Zl` {aZ`VaMl`Mj`V`Zxby{b`/uxn{ZV{ZX`Ut`jM` b`  
Ml`+n`\_lqy{| XZl {uxn`xMk` ySMl`b`lqf`\_nx`uaty`b`Mj`Sk` Zl` {jE`xn{ZV{ZX`+jMjyZyE°

AaZ`byy| Ml`VZ`n`"xMk`Zyby`{aZ`uxZn` Ml`bZ`n\_{aZ`xZyZV{bZ`{ZMwaZx°AaZ`yty{Zk` n`"xMk`b` `MIX`{aZ`\_nxk` Ml`n`\_xZunx{VMXy`xZk` Mb`  
| l`XZx`{aZ`Ml`{anxqf`\_nx`uaty`b`Mj`Sk` n{bnl` Mj`SnxjZMl` b` `Xby`Ml`lqf`\_nx`uaty`b`Mj`Sk` Zl` {aZ`VaMl`Mj`V`Zxby{b`/uxn{ZV{ZX`Ut`jM` b`  
aZxZUt`Mj`nu{y{aZ`\_njjn` , b` `l`| k` Zxb`Mj`MIX`jZ`{Zx` xMk`b` `yty{Zk` °

@| XZl {y`b` Ob`XZx` M{Zl` ` (xMk`Z`b` , lji`xZVZ`bZ` My{Ml`XMXy`UMYZX`xZunx{VMX`| yb` ` {aZ`\_njjn` , b` `Vxq`Zxb`M`  
L°LZ` b`l`b` `QEZ` b`l`b` `yi`lji`Mj`jtk` lqZx`{n`Mduj`+n` , Mx`{aZ`jZMl` b` ` {Mx`Z{°  
ž°ž`ZfZ`jnub` `QZfZ`jnub` `SuxNW{b`b` `MIX`Mduj`+n` `i`l`n` , jZX`Z`MIX`yi`lji`Mj`jtk` , Mx`{aZ`jZMl` b` ` {Mx`Z{°  
@°@V| xZ°@an` , yVnl` ybyZl` {MIX`yZV| xZ`yi`lji`Mj`MIX`i`l`n` , jZX`Z`n\_{aZ`jZMl` b` ` {Mx`Z{°  
"l` .VZZXy°† XZuZl` XZl` {j`+Z` .VZZXyZ` .uZV{Mlbnl` yn\_{aZ`jZMl` b` ` {Mx`Z{°  
3µ`13n{`"yyZyZX`{abyw` M{Zx`

@| XZl {y`b` (xMk`ZyB`a` , lji`UZ`"xMk`ZX`| yb` ` {aZ`\_njjn` , b` `Vxq`Zxb`M`  
°°°"äp`U00  
L`"aa`a`Y`  
f`"aa`a`a`B`  
ž`"a`U`a`a`  
l`"aa`a`a`

AaZ`|yZ`n\_{aZ`-l` @`nx`-°Qž`† Vnk`ujZ`{Za`"xMk`Z` , lji`xZw`bZ`Ml` xq{Zl` l`Mx`Ml`bZ`Z` .ujMl`Mlbnl` Ut`{aZ`{ZMwaZx`{n`{aZ`uMZl` {µjZ` Mj`  
`| Mx`b`Ml` Ml`X`pnx`Mx`bZV`Vnl`\_ZxZl`VZ` , lqa`{aZ`uMZl` {µjZ` Mj` `| Mx`b`Ml` xZ` Mx`b` ` {aZ`y{| XZl {y`jMl`n`\_uxn`xZyyn`xk` byb` ` , nxi`°

°†°ž"2†@

H`byVnl`yb` @MZ`@M| {Z`ÜÜä`xZw` bZy`u| ubj`MwMkZk`b`y{Ml`XMXy`yb` 2`MaZk`Ml`byS`@Zl`VZS?ZMk`b` `l` H`xq`b` `Zl`qZ`xNWt`AS`{Zn`xMl`at`S  
Ml`X` }by{nx`t°° VwMkZk`b`y{Ml`XMXy`yZxfZ`Mj`x`b`nxn|y`n`Njy`\_nx`{ZMwab` `Ml`X`jZMl` b` `°?ZX`xMl`qZ`"jZk`Zl` {Ml`+by`Vnk`k` lq{Zx`{n`  
Zl`y|xb` `MwMkZk`b`Z` .VZjjZl`VZ°

°?A"žB†°A\*53`by`Ml`b`{Z`xMj`uMk`{n`\_n| x`yVannj`V| xdb`|j|k` , ab`a`\_ny{Zxy`{aZ`MduxZVb`Mlbnl`n`\_Ml`by{b`/Ml`X`VxZMl`bZ`Z` .uxZy`ybnl` Ml`X`  
{aZ`VndMl`lqf`\_nx`yZj`\_Z` .uxZy`ybnl` °°† Mx`X`lq`bnl` {n`uMl`Nj`jZj`b` Ml`X`xZb`\_nxVb` ` {aZ`Xby{x`b`{y` Zl` ZxMj`Zx| VMlbnl` `n`Njy`SMl`{Mx`xZy`yZy`  
{anyZ`n`Njy`| l`b`w`Z`{n`{aZ`fby` Nj`Ml`y°° x{UNY`Ml`VZy`{aZ`V| xdb`|j|k` {n`aZju`XZfZ`jnu`{aZ` , anjZ`b`{ZjjZV{°2`Ml`Zxb`Mj`MjZ`y| uujkZ`X`Ut`  
{aZ`Xby{x`b`{°

2`B@†`"žB†°A\*53`uxn`f`bZy`y{| XZl {y` , lqa`Mf`Ml`Z`{t`n`\_k`| yb`MjZ` .uZxZl`VZy°†nl`{Zl`{k`M`b`V| XZ`k`| yb`Mj`l`n{Mlbnl` SuZx`\_nxk`b` `S  
VxZMl`b` `SbXZl`{b`j`b` `k`| yb`Mj`\_nxk`y`Ml`X`f`Ml`bnl`y{tuZy`n`\_k`| yb`SMl`X`| l`XZxy{Ml`X`b` `k`| yb` , lqab`V|j| xMj`Ml`X`aby{nx`b`Mj`Vnl` {Z` .y°

<) J@†`1"žB†°A\*53`Zk`uaMj`bZy`yi`lji`XZfZ`jnuk`Zl` {Suaty`Mj`Ml`b`lqf`\_nx`uaty`b`Mj`Sk`{a`Ml`X`yi`lji`xZj`MjZ`X` lq`l`Zy`yVnk`unl`Zl` {ySMl`X`j`bZ`{tk`Z`  
Zl`lntk`Zl` {`\_nx`UZb` `Mw{bZ`j`+Zl` `MjZ`b` uaty`b`Mj`Ml`b`lqf`\_nx`uaty`b`Mj`Sk` °°jj`y{| XZl {y`2`B@†i`ZZu`MuMk`n`l`n`l`k`Ml`b` `yanZy`\_nx`<"`Ml`yVannj`°  
1Ml`n`\_MajZ`b`yanZy`k`M`xZy|j`b`Ml`n`l`uMk`{b`w`Mlbnl` `xMk`Z°@| XZl {y`k`| y{aMfZ`yanx`y`nx`uMl`y`{n` , ZMx`| l`XZx`y`b`{y`{n`  
uMk`{b`w`MlZ°An`UZ`Z` .V| yZx`\_nxk` <"`X`Z`{n`bjl`Zy`y`nx`b`h`+f`SMl`Z` .V| yZ`\_nxk` Ml`X`Zxb`Mj`uxn`f`bZx`by`xZw`bZx°

O°JL5°?ž\*3( @| XZl {y`b` (xMk`ZyB`Ml`X`a` , lji`aMfZ` , ZZl`j`+i`Z`+Un`Mx`b` `b`y{x| V{bnl` {n`yaMduZl` {aZ`b`{tub` `yi`lji`y`\_nx`Mx`b`lq`Mj`  
 , nxjX°

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(B \* 31 " jZyynl y\_nxVjMyxnnk ySb Xbfx| MjyMIXyk Nj " xn| uy, bj UZ MFMUJZ, tãa {aZyVannj Vh | yZjnx^@| XZI {y, bj uM{bVUjZb " M{bfxZy{n jZMl an, {n UZ{Zx| | XZxy{MIX{aZk yZjZyMIXn{aZxy^AaZt, bj jZMl MUn| {M{tã| XZyMIXUZaMfOnxy MlX{aZyVannj Zl fOnl k Zl {^@| XZI {y, bj " Mb {ZxuZxynl MjMIXVnk k | | bVUjZb " yjyMIXuxNW{bZ uxnlUjZk ynjfOb " MlX XZVytlnl k Ml b " yj bjy^Aaby, bj aZju{aZk {n XZfZjnu yVannj y| WZy yj bjyMIXVnk k | | tãt uxkZ MlX b fnjZk Zl {^@| | bXMI VZ VjMy, bj b Vj XZ MFMUJZ {t n\_{nublyb Vj Xb " Uj jtb " SvAMNW{ZxZX| VMltnl Svnk k | | bVUjZb " uxnUjZk ynjfOb " uXZl XyabwSMDuxZVOb " n{aZxyS nMjyZ{b " SjZMl b " yj bjySuZxynl MjyMZ{tSyZj\_k MlMZk Zl {MlX{xMlytãnl ^

1 \* ? ° J VjMy uxnl n{ZyMIXZl Vh | xMZYxZMk " MlX{aZ | yZ n\_xZyZMva k MZxbyb Vj | Xb " Xb tãMl\_nxk y^ \* Zk yk M UZ VaZM ZX n| {Ml t{tã Z y{M\_bj MFMUJZ^ b Zy, bj l n{UZ VaMk ZX\_nxnZxX| Z Unni ySan, ZfZX jbuMx t uxkZ " Zy k M UZ y| yuZl XZX | | {b M Unni byxZ{ | x ZX^1ny{n xXNk MZX Unni yk | y{UZ uMk\_nx^1ny{ tãZk yxZ{ | x ZX b " nnXVnl Xlãnl k M UZ Zj b bUjZ\_nxMxZ\_ | X^

A\*A1" UyVannj uxn xMk byXZyb | ZX{n aZju ValãXZl, tãa Mj MlãtãZy{n tã uxnfZ xZMk " MlX k Mã MwaZfZk Zl {Ut y{xZl " {aZl b " {aZk bjZl b " SyuZMl b " SxZMk " MlX, xãtã " MlãtãZy^@ZV{y{ | XZI {y yZxZfZy UjZx n| fMltnl y\_nW{nxyb Vj | Xb " {Zy{yVnxZy MlX {ZMwaZxZVnk k Zl Xlãnl ^AaZããZj U b {ZxZl {tãl by{ k M, nxi, tãa {aZ ValãXZl {n xZb\_nxZ yj bjy b xZMk " MlX b k Mã^

ž ^ ° ? ° a : ž x | " " Uj yZ ? Zyby{MlVZ " X| VMltnl Ab y{x| V{ZX Ut H Mj yaMl n | | {t @Zxb Ey ž ZuMk Zl {by MFMUJZ b " a{a " xMkZ {n ZX| VMZ Ml MZl Zyy MlX xZyby{MlVZ {n Xx} y MlX MjManj^

AZVal njn t ByZ

\* {aZ H M{nk M xZMavannj ž byxZfZx t y{ | XZI {aMj MxZfVZ k MxZ MFMUJZ {n {aZk X| x b " {aZ XM {n UZ | yZx\_nxyVannj u| xunyZynl jt^ " jnl " , tãa {aby uxkZ " Z Vnk Zy " | bXZj b Zy{aMk | y{UZ\_nj n, ZX^AaZyZ " | bXZj b ZyVMl UZ\_n | | X b {aZ AZVal njn t ) MlX Unni jnVMZX n| {aZ ž byxZfZ, ZUyãZ^

° 'A" ? @ ) 551 < ? 5 ( ? ° 2

° ö " \_{ZyVannj uxn xMk uxnl n{ZyMjMZ Zl fOnl k Zl {n jZMl SUZ VaMjZl " ZX {n XxZMl MlX Z uxZy VxZMlãtã MlX UZ b yubZX {n Z.ujnxZ {aZk yVannj Svnk k | | tãt MlX, nxX^ " | nxj k Zl {XZuZl Xynl MFMUJZ MlX uMk Zl {n \_ZZy^ " ö x | | y Y @ Uã @ U u^k x | x b " {aZ " ö VjZl XN X MZySZ.VZu{n l uMZl {uZMwaZxVnl \_ZxZl VZ XMZyinxX| x b " b VjZk Zl {, ZMãZxVMlVZjMltnl y^ @ | XZI {y aMfZ ank Z, nxi {tã Z Syl Ml ySZl xãvak Zl {uxn xMk yS\_bZjX{xuyS tã Zyy M{bfxZy Svnk k | | tãt fbydy MlX k | Va k nxZ^ " ö by nl jt n\_ZxZX {n y{ | XZI {y V| xZl {tã M{Zl Xb " ? ZX xMlãZ @avannj^ Gbyã H M{nk MjX^nx {n Mlujt\_nx " ö " \_{Zx@avannj^

5 | xVnk k | | tãt MlX y| xn | | Xb " MZMn\_ZxyM, bXZ fMlãZ {t n\_tn| {a M{bfxZy MlX MãjZ {byX| x b " {aZ yVannj tãZM MlX y| k k Xz yZMynl ^ V{bfxZy k M b Vj | XZ Ujny Z{UNj SUMjZUNj Syn\_{UNjS xZyjb " SvãZxZMk " S{xMl S\_jM\_nn{UNjS\_nn{UNjSynWZxSUnt @/n| {yS bj @/n| {ySb} Syi tãyl n, UnMk b " S l Ml u < Ml yXZSy, tã k b " jZyynl ysk | yb uXxNk M\$ tk l Mj{by MlX { | k Ujb " SXMlVZS k M{by Ml{yStn M\$Un, j b " S MlX tn| {a Vnk uya^ jtZxyk M nxk M l n{UZ yaMZX, tãa {aZ yVannj U| {Zj} xZz {n Mjy an, tn| VMl Z{tn| xValãX b fnjZx^

@ " t \* 1 " ž B l ° A \* 5 3

An UZVnk Z Zj b bUjZ\_nxyuZVbYjZX| VMltnl yZxZySMy{ | XZI {aMj {n UZ xZ\_xZx\_nxMl ZfMj| Mltnl SUZ {Zy{ZX Ut yuZVbYjZX| VMltnl y{M\_S MlX k ZZ{ {aZ y{MZ Zj b bUjãtã VãZx b Mjy XZ{Zk b ZX Ml Mj{M b " S VjZx Ml { | bXbyVuj b Ml {ZMk nxZ ^AZMk k ZZ{b " a " y{ | XZI {k Ml n| jt wj Nj b t\_nxMlZMl b " ž byMlãtã fMl{aZ yVannj Ey @ZVOb l ZMl b " ž byMlãtã Zy @ãž Åuxn{nVnj yZ {Ut y{MZ x| jZ xZw b b " {aZ Ml Mjtyb n\_XMlMnjn, b " b {Zl yãZ b {ZxZl {tãl n\_{aMl y{ | XZI {^@| XZI {y, an MZ\_n | | X {n wj Nj b tã k | y{aMfZ Ml b Xbfx| NjZx ZX| VMltnl Mjuxn xMk ujm j " < A, xãZl UZ\_nxZ {aZ tã VMl UZ ujmWZx^ < MZl {uZxk bytlnl byxZw bXZ\_nxMl ZfMj| Mltnl MlX\_nxujMzk Zl {^

@ | XZI {t nl y| j{Mltnl < xnVZyy@

< MZl {y MlX {ZMwaZxy, an aMfZ Mvnl VZl " MUn| {My{ | XZI {b yVannj k M xZw Zy{ My{ | XZI {Vnl y| j{Mltnl k ZZ{b " ^AaZyZ Vnl VZl y Vnl jX UZ NvMkZ bVsynVjS Zk n{tãl MjS UzaMfOnMjS k ZXbVjSua tyb MjSMlX n{aZx MZMj^ AaZ u| xunyZ n\_{aZ Vnl y| j{Mltnl uxnlVZy by{ n " MãZx b\_nxk Mltnl MUn| {aZ y{ | XZI {y uxnUjZk MlX {n nU{Ml Mjy{MlVZ\_nx {aZ y{ | XZI {Mj ynnl Mj unyãtãZ^ " j j uMZl {xZw Zy{y uZx{Ml b " {n MunnyãjZ @ãZVOb l ZMl b " ž byMlãtã tãk | y{ \_nj n, {aZ y{MZ @ãž x| jZy MlX yVannj uxn{nVnj^ AaZ y{ | XZI {y {ZMwaZxSuMZl { MlX n{aZx y{M, an VMl uxnfãZ Mjy{MlVZ MlX y| " Zy{tãl ySk ZZ{ MlX XZfZjnu MjyMl {n aZju {aZ y{ | XZI {^ " Xxãtã Mj y{M\_k M b Vj | XZ {aZ xZMk b " yuZVbYj{SyVannj | | xZySyVannj uytVanjn by{S | bXMI VZ Vh | | yZjnxSxZ | jMk ZX| VMltnl y{Ml S " @ y| uunx{ y{M\_S MlX jnx, tãa uZxk bytlnl\_nxk {aZ uMZl {ySuxn\_Zyytlnl Mjy\_xnk n{aZx MZl VZy^ 5 l Z\_nxk nxZ\_nj n, | | u k ZZ{b " y MZ yvaZl | jZx {n k n| tãnx {aZ y{ | XZI {y uxn xZyy MlX {n | uXMZ {aZ ujm^

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J " ; 9B 9F 5 @ = B : CFA 5H = CBã

" 2 " ? ( " 3 l j u H " " A ) " ? \* 3 ' 5 ? 2 ° A \* 5 3

AaZ l nMk M {an xZy Mjty{Zk n\_Zk Zx Zl Vt uxZuMZXl Zyy ž @A ? \* 1 A < 5 1 \* J ãBYÜ, abã yaMj xZw bZ {aMl\_bZ Xãtãj MZ Vnl X| V{ZX MjZMj n| VZ ZMwa k n| a " {nxi Mkn Xãtãj MZ Vnl X| V{ZX MjZMj {, bZ Ml | Nj tã MlX yVannj yMZ {t b VãZl {NW{tãl ujm Xãtãj MZ Vnl X| V{ZX MjZMj {, bZ Ml | Nj tã^

A

jj {axZMly}n {aZyMZ}t n\_z by(xb/ 'NWbq'Zy yaMj UZ 'bZl {bZx Ut MluxnuxbMZ uZxynl I Zj MlX'xZyuni XZX' {n uxnk u}t b' 'NWVnXMI VZ' . tsa {aZ'ujMI \_nxZk Zx Zl Vt' uxZuMZXl Zyya'

' bZ' Xxbjy, 'bj UZ' aZjX' M' fMl y{tk ZyX} xb ` {aZ' yVannj' tZM' @| XZl {y, 'bj UZ' Z. uZV{ZX' {n k nFZ' w' bM j' t' MlX' w' bZ' {t' {n Z. t' {aZ' Uj' bXb' ` a' 'jj {ZMwaZxXbZV{tmi y yaMj UZ' bZl' VjZMj' t' MlX' \_njjn, ZX Vnk uJZ' j' t' a'

@fZxZ', ZMaZxXxbjy, 'bj UZ' aZjX' uZxtnXbMj' t' a' | I n| I VZk Zl {y, 'bj yb' l' Mj' y{ XZl {y' {n k nFZ' {n' Muxn' {ZV{ZX' MZM' @| XZl {y' MZ' {n' \_njjn, 'Mj' b' y{x' V{tmi yX} xb ` {aZ' Xxbj' MlX', Ml' | I {b' {aZ' t' MZ' VjZM' {n' xZ' | x' {n' VjMj' a'

' a1a1 a1 a1' jZx{S1nV Xn, I S1' \_nxk S1 n| I {ZxS' fMl' MZAXxbjy, 'bj UZ' aZjX' uZxtnXbMj' t' a' @| XZl {y, 'bj {MZ' MW{tmi' | I XZx' {aZ' XbZV{tmi' n\_ {aZ' VjMj' yxnxk' {ZMwaZxnxMj' Vannj' Ml' n| I VZk Zl {a' @| XZl {y, 'bj UZ' {xNb' ZX' n' l' an, {n' xZM' {n' uny' y' bZ' y' t' Ml' b' y' z' | xb ` {aby' Xxbj' {aZ' {ZMwaZxk' M' XbZV' {y' XZl {y' {n' MlZ' MW{tmi' a' @| XZl {y' k' M' n' xk' M' l' n' {UZ' Z' fMl' MZx' a'

@ ) 551\*3t 1" 2 " 3AH " " A) "? <?5t " zB?" @

'1 {aZ' ZfZl {n\_ 'MfZxyZ' nx'aMl' Xn' y, ZMaZxVnl Xb' tmi ynxn' {aZxZk Zx Zl VZy' {aM' uxZyZl {M' {axZM' {n' {aZ' yMZ' {t' n\_ y' | XZl {yS' {aZ' uxnvZx' | xZ' j' b' {Zx' UZ' jn, ' , 'bj UZ' \_njjn, ZX' a'

@'annj' k' M' y' {M' {jMZx' {aM' l' n' k' MjS' b' k' by' ZMj' b' z' {aM' l' n' k' MjS' n' x' VMI' VZ' j' Vannj' nx' Mj' {Zx' y' Vannj' MW' {b' t' b' z' y' a' \*' Mj' an' | xj' MZ' y' {M' {b' y' Vj' Z' X' S' n' n' x' y' nuZl' M' ä' @' a' MlX' y' Vannj' UZ' b' y' M' ä' @' a' Ml' a' \*' A'1' {aZ' ZfZl {M' t' n\_ {aZyZ' Vbx' | k' y' {Ml' VZy' n' W' | xS' {aZ' z' b' y' {xb' / , 'bj Vnl' {MW' {aZ' k' ZX' b' y' {Ml' b' y' j' b' {Zx' UZ' jn, ' MlX' xZw' Zy' {aZk' {n' Uxn' M' Vj' {aZ' y' Vannj' Vj' n' y' b' ` tk' k' ZX' b' MZ' j' t' a' 'EZMj' yZ' n\_ Uj' y' {Z' Z' uanl' Z' j' b' Zynx' X' b' y' u' {tmi' y' b' y' Z' f' b' Z' S' n' l' Z' n' xk' n' xZ' n\_ {aZ' k' ZX' b' y' {Ml' b' y' k' M' l' n' {UZ' Vnl' {Ml' Zx' a'

<jZMjZ' UZ' y' | xZ' {n' | uxMZ' Vnl' {MW' l' Ml' Z' yS' | k' UZ' xy' MlX' uxZ' ZxZl' VZy' ; tsa {aZ' y' Vannj' MlX' n' l' t' n' | x' t' b' t' Z' t' Ml' u' | y' <nx' {Mj' \*' Wn' | I {a' z' n' b' ` {aby' VMI' Z' j' k' b' MZ' k' | Va' Vnl' \_j' y' tmi' MlX', 'bj Zl' y' | xZ' t' n' | Mj' n' xZ' VZ' b' Z' l' n' {b' b' Ml' b' y' yZl' { \_nxk' n' | x' M' | n' k' MZ' X' y' t' y' {Zk' a' @' l' | u' \_nxZk' Mj' l' n' {b' b' Ml' b' y' MlX' 2' n' UjZ' @' @Z. { ' M' ' Wl' VZ' j' Ml' b' y' Vnk'

?Nl' b' @' Ml' b' l' y'

H 3t J @UÜÜ' b' 2'

3Et 'AG' YaS( xZZl' tM'

H \* B) 'ÜÜY' a' 2'

H ( " " @a' b' a' 2' '1/2ä' b' a' 2'

H \* 5H 'AG' äSH' Mj' yM'

H z' Bl' 'äÜÜ' 2' MlX' ä' Y' a' 2'

H A \* > @Ü' b' a' Ü' 2' '1/2ä' a' a' 2'

H t' J 'AG' YS( xZZl' tM'

H \* @ÜÜ' a' Ü' 2'

H \* l' @ÜÜÜ' a' 2'

H ' ?G' AG' äS( xZZl' tM'

H <O? 'äa' a' 2'

H 1B0' n' .AG' ÜÜS( xZZl' tM'

.....H 3' 1@Ü' B' B' Ü' 2' '1/2ÜÜÜ' a' a' 2'

AZjZ' f' y' tmi' @' Ml' b' l' y'

H @' H 'AG' äSH' Mj' yM' "

.....H Jz' ?' äa' a' 2'

1n' Vj' t' Mj' Z' b'

' 55z' @' ?G' \* 3' 5? 2 \* A' 53'

ExMl' Ml' b' y' n\_ ZxZx' xZZ' n\_ VaM' Z' {n' Mj' y' | XZl {y' \_nxk' 'äÜÜ' Ml' a' ä' @' a' Ml' a' \*' 1' {aZ' ZfZl {n\_ MjMZ' y' {M' {S' l' n' UxZMl' Mj' (, 'bj UZ' yZx' fZx' a'

<jZMjZ' UZ' y' | xZ' {n' a' MfZ' t' n' | x' Va' b' X' ZM' UZ' n' xZ' y' Vannj' b' {aZ' ZfZl {n\_ MjMZ' y' {M' {a'

@'annj' j' l' l' Va' xZZ' MlX' ?Zx' | VZx' j' | l' Va' z' b' y' {xb' / <n' j' b' t' ä' a' b' Ü' a' b' y' M' f' M' j' Z' n' x' {anyZ', an' w' j' b' t', tsa Ml' Mluxn' fZx' Mluxj' b' Ml' b' l' a' ' j' y' | XZl {M' Vn' | I {y' k' | y' {a' MfZ' y' | \_b' VZl' { \_j' | Xy' UZ' n' xZ' u' | x' Va' Mj' Z' y' VMI' UZ' k' MZ' a' J' n' | k' M' y' Zl' X' Vj' a' n' x' Va' ZM' y', xS' {Zl' {n' H' \* @' n' x' | yZ' {aZ' t' b' t' Z' t' Ml' u' | y' unx' {Mj' {n' k' MlZ' M' Ml' k' Zl' {a' @' \_b' VZl' { \_j' | Xy' k' | y' {UZ' f' M' f' M' j' Z' UZ' n' xZ' {aZ' u' | x' Va' Mj' Z' n\_ Ml' MlX' t' b' tmi' Mj' Zl' {xZS' y' b' Z' n' xk' b' j' a' ' Xx' t' b' tmi' Mj' t' Z' k' y' MZ' y' | UZ' V' {n' M' f' M' j' Z' b' t' a'

f' n' j' X' l' l' Va' H Z' Zl' Vn' | xMZ' t' n' | {n' uxnvZx' Mj' | l' Va' {aM' Vnl' {Ml' b' y' Mj' jZMj' {aZ' UMY' b' \_nnX' ` xn' | uy' a' 2' b' j' y' M' f' M' j' Z' n' x' u' | x' Va' Mj' Z' a'

j' l' l' Va' G' b' t' Ml' b' l' y' \*' Ml' Ml' b' t' k' Zk' UZx', b' y' aZy' {n' ZMj' | l' Va', tsa {aZ' b' Va' b' X' n' x' Mj' y' Z' Vb' j' n' W' Vj' tmi' S' {aZ' t' k' | y' {Vj' j' {aZ' n\_ b' VZ' l' n' j' MZx' {aM' ä' ÜÜ' Ml' a' n' l' {aZ' X' M' {aZ' t', b' y' a' {n' ZM' a' a' b' y', 'bj aZ' j' u' uxZ' fZl' {n' fZ' x' Vx' n, Xb' ` MlX' Zl' y' | xZ' {aM' Mluxn' u' x' b' MZ' Ml' n' | I {y' n\_ nnX', 'bj UZ' uxZuMZX' a' G' b' t' n' x' y' | jZy', 'bj Mluxj' t' a'

f' j' Mj' y' n' n' k' 'AZMj' n' n' X' t' Z' k' y' {aM' MZ' Uxn' | ` a' {n' y' Vannj' {n' UZ' y' a' MZx', tsa {aZ' Vj' Mj' y' k' | y' {UZ' xZM' k' t' {n' UZ' yZx' fZx' S' b' Vj' | Xb' ` {aZ' Mluxn' u' x' b' MZ' X' b' y' uny' Mj' Z' y' b' ` jZ' yZx' fZ' u' j' MZ' y' n' x' i' y' y' unnl' y' \_nx' {aZ' Zl' {bZ' Vj' Mj' y' a' t' j' Mj' y' n' n' k' y' {aM' a' MfZ' y' | XZl {y, tsa \_nnX' Mj' Zx' t' z' y', 'bj UZ' l' n' {bZ' X' n\_ yuZ' Vb' b' xZy' {xb' / tmi' y' MlX' j' t' k' t' Ml' b' l' y' a' ' n' n' X' ` jZ' Zx' t' z' y' t' 1' \_nxk' Ml' b' l' y' VMI' UZ' y' a' MZx' | unl' Zl' xn' j' k' Zl' {n\_ Ml' t' \_nnX' Mj' Zx' t' z' y' a'

AaZ' \_njjn, b' ` y' {MZk' Zl' {Mluxj' b' z' y' {n' Mj' ux' n' x' Ml' y' Ml' k' b' b' y' {ZxZx' Ut' {aZ' z' b' y' {xb' / {aM' MZ' \_j' | XZx' b' ` , anjZ' n' x' b' u' Ml' Ut' {aZ' B' a' @' z' ZuMl' k' Zl' {n\_ ` x' b' | j' | xZ' j' B' @' ` A' a' 1' 'NWVnXMI VZ', tsa' ZZX' x' y' Vb' t' b' a' f' y' j' M' MlX' B' a' @' z' ZuMl' k' Zl' {n\_ ` x' b' | j' | xZ' j' B' @' ` A' Vb' t' b' x' b' a' f' y' xZ' | j' Ml' b' l' y' MlX' unj' b' t' z' y' S' {aZ' B' @' ` S' t' y' ` Zl' VZy' S' n\_ b' VZy' S' MlX' Zk' u' j' n' t' ZZy' S' MlX' b' y' t' b' | tmi' y' u' Ml' {b' b' Ml' b' ` b' n' x' Ml' k' b' b' y' {Zx' b' ` B' @' ` ux' n' x' Ml' y' MZ' ux' n' a' b' t' b' t' Zx' \_nxk' X' b' y' Vx' t' b' b' Ml' b' ` UMY' Zx' n' l' x' NWS' Vj' n' x' S' l' Ml' b' l' Mj' n' x' b' b' S' x' Z' j' b' tmi' S' yZ' S' Zl' XZx' t' XZl' {t' t' j' b' Vj' | Xb' ` ` Zl' XZxZ' . uxZy' tmi' äS' yZ' . j' Mj' n' xZl' {Ml' b' l' S' X' b' y' Ml' b' t' t' S' MZ' S' k' Ml' t' Mj' y' {Ml' y' S' Ml' b' t' t' u' MZl' {Mj' y' {Ml' y' S' b' Vnk' Z' XZ' x' b' Zx' \_nxk' Ml' u' | Uj' b' Vj' y' b' {Ml' VZ' ux' n' x' Ml' S' unj' t' b' Mj' UZ' j' z' y' S' n' x' Z' u' x' b' y' Mj' n' x' Z' {Nj' b' Ml' b' l' \_nx' u' x' b' n' x' Vb' t' b' x' b' a' f' y' Ml' {b' t' b' t' S' b' Ml' t' ux' n' x' Ml' n' x' Ml' {b' t' b' t' Vnl' X' | V' {Zx' n' x' \_j' | XZx' Ut' B' @' ` j' n' {Mj' UMY' Z' y' Mluxj' t' {n' Mj' ux' n' x' Ml' y' a' ?Zk' ZX' b' z' y' MlX' Vnk' u' j' Nl' b' ` t' b' b' ` XZ' Nj' b' Z' y' f' Ml' t' Ut' ux' n' x' Ml' n' x' b' Vb' Zl' {a'

<Zxynl y, lga XbyMwJqZy, an xZw bZ MjZl MbZ k ZMly'n\_Vnk k | l bMlml 'nx'uxn' xMk 'b\_nxk Mlml 'Z'° SŁxMjZSjMk Z'uxb {S  
MjXbn{MzS' k ZxbMl @ l 'MI' | MZSZ{V'Ayan|jX Vnl {Mw{aZ xZyuni ybJZ'° Zl Vt'nx B@° 'fy'A' ? (" A' Zl {ZxMj'YÜYÄaYÜ'YaÜÜ'  
jfnbZ M'X'AAJAnxVnl {Mw' B@° {axn| 'a {aZ' ZXZxMj?ZjM @x'fVZ Mj'äÜÜÄäää'äPpää° XXlqtl Mj'fSuxn' xMk 'b\_nxk Mlml 'k M'UZ'  
k MZ MfMjMjZ' b'jM' | MZyn{aZx{aMl " l' jbya°  
An\_ljZ Muxn' xMk 'XbyVtk b Mlml 'Vnk ujnM {SVnk uJZ{Z{aZ' B@° '<xn' xMk 'z byVtk b Mlml 'f nk ujnM { 'nxk S' z 'pÜYäS\_n| l X'nl jB Z'M'  
) n\_ 'fn' bZ M'x'n' xMk 'z byVtk b Mlml 'f nk ujnM { M'X'M' M'f B@° 'n\_bV'nx', xqZ MjZ{{ZxMkXxZyyZx{n B@° 'M'X'uxn'fBZ' b {aZ'  
jZ{{ZxMj' n\_{aZ' b\_nxk Mlml 'xZw Zy{ZX' b {aZ' \_nxk ° An'xZw Zy{ Mhnt' n\_{aZ' Vnk ujnM { \_nxk S'VMj' äääÄäP'Y'äääY°@ Uk l' tn| x'  
Vnk uJZ{ZX' \_nxk 'nxjZ{{Zx{n B@° 'Ut'ÜÄK Mj'@B°@z ZuM{k Zl {n\_ 'xv|j| xZS5\_bV'z'n\_{aZ' 'yyb{Ml { @VZ{M'f' n\_x'f b'f? b a{yS'  
ÜBÜÜ'° XZuzl XZl VZ'° fZl | ZS@H SH Mj'ab' {nl S'z'° °YÜYäÜ'äBÜÜ'° YÄ\_M\_°YÜYÄääÜ'äBBY'° nx'pAZk Mj'@uxn' xMk 'b {MjZl | yXM n'f°  
B@° 'by M' Zw M'nuunx| l l'f' uxn'fBZxSzk ujn'fZxSM'X'jZl XZx°

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AaZ'k bylml 'n\_n| xyVannj l | xyZ'by{n tk uxn'fZ {aZ'aZMj{a y{Ml| yn\_VajXxZl 'M'X'tn| {aSxZk n'fZ {aZ'aZMj{a xZjMZX'UMxZxy'n'  
jZMl b' 'M'X' {n M'yyb{ n{aZxyVannj'uZxynl l Zj' b' k M' {N' b' 'nu{tk | k 'aZMj{a° AaZ' Xy{xb{ 'yVannj l | xyZ'by MfMjMjZ'nl 'MuMk {tk Z'  
UMyby°

° z 2 \*3 \*A?° A\*53 5' 2 " z \*° A\*53µ' 2 " ? ( " 3l J l ° ? " ' z \*A?° A <51° J ' äpPÜ

AaZ' k nMkX' n\_ " X| VMlml 'yaMj' l n{ 'UZ xZyuni ybJZ' \_nx{aZ' XbMl nyb' M'X' xZMk Zl {n\_y| XZl { bjl Zyy° AaZ' Nk b by{xMlml 'n\_k ZXB'Mlml '  
{n My{ | XZl {X| x' b' 'yVannj'an| xy, bjl'UZ' uZxk l{ZX'nl j'f, aZl 'Nj' xZ' {n X'n'y'n, n| jX' l'ZnuMkX'Zz{aZ' aZMj{a n\_{aZ' y| XZl {S{aZ' y| XZl {  
, n| jX' l n{ 'UZ' MjZ' {n M'Zl X'yVannj' b\_{aZ' k ZXB'Mlml', ZxZ' l n{ 'Nk b by{ZxZX' X| x' b' 'yVannj'an| xySnx{aZ' VajX' by XbyMjZ'X' M'X' xZw bZy'  
k ZXB'Mlml {n UZl Z' b' \_nxk 'aby' aZxZX| VMlml M'uxn' xMk °

lZ\_nxZ' M'f' uxZyVxZ' k ZXB'Mlml 'k M'UZ' Nk b by{ZxZX' {n My{ | XZl {S{aZ' k nMkX' yaMj' xZw bZ {aZ', xqZl ' b y{x| V'nl y\_ 'nxk {aZ' VajX' f'  
uxW{f'nl Zx'WVnk uMl Z'X' Ut {aZ', xqZl ' M' {anx' b' Mlml 'n\_{aZ' uMkZl {°

3nl uxZyVxw{bnl 'Xx| ' uxnX| V'yk M'UZ' Nk b by{ZxZX' {n My{ | XZl {, lga' uxt'x', xqZl ' Vnl yZl {n\_{aZ' uMkZl {µ | M'X'bMl'° 'y{nV' y| uuj'f'  
n\_bJ| uxn\_Zl S'WZ{Nk b nuaZl 'M'X' XbuaZl aT'X'Nk b Z', bjl'UZ' MfMjMjZ' M'yVannj' {n Nk b by{Zx' {n y| XZl {y° '° uZxynl M'y| uuj'f' n\_  
k ZXB'Mlml 'k M'UZ' b' XbM'Z', lga' xZw Zl { | yZ' n\_y{nV' y| uuj'f'° <MkZl {yMk' xZyuni ybJZ' \_nx'y| uuj'f' b' 'M'X' XZj' b' Z' b' 'M'f' n{aZ'  
l n| uxZyVxw{bnl 'k ZXB'Mlml y°

@ Uy{M'VZy', ab'v' Vnl {N' M'yub' b' nxMkZl n{ ' z ° M'uxn'fZ' j'Z° l M| xM'uxnX| V'yS\_nnX'y| uujZk Zl {yAS, bjl' xZw bZ {aZ', xqZl '  
b y{x| V'nl 'n\_MuxW{f'nl Zx'M'X' {aZ', xqZl ' Vnl yZl {n\_{aZ' uMkZl {µ | M'X'bMl'°

'<xZyVxw{bnl 'k ZXB'Mlml yk | y{ 'UZ' XZj' b' ZxZX' {n yVannj' b' {aZ' nxb' b' M'uaMk' M'f' Vnl {N' Zx'M'X' b' Vj| XZ' @VajX' y' l Nk ZSj' Nk Z' M'X'  
XnyMz' n\_k ZXB'Mlml S{tk Z' {n Nk b by{ZxSuxW{f'nl Zx'f' l Nk Z' M'X' uaMk' M'f' l Nk Z° 3nl uxZyVxw{bnl 'Xx| ' yk | y{ 'UZ' XZj' b' ZxZX' {n {aZ'  
yVannj' b' {aZ' nxb' b' M'j'k M| \_W{ | xZx'f' uMl MZ', lga' b' 'xZxZl {yM'X' xZVnk k Zl XZx' {aZ' xMkZl {b' XnyMz' b' MjZ' bJZ' \_nxk M'° ' l f'  
XnyMz' n\_l n| uxZyVxw{bnl 'k ZXB'Mlml 'n{aZx{aMl jby{ZX'nl {aZ' k ZXB'Mlml 'y'uMl M' b' 'Sk | y{ 'UZ' M' {anx' b' Z' b', xqZl ' 'Ut' M'k ZXB'Mj'  
uxW{f'nl Zx°

° j'j'k ZXB'Mlml 'yaMj' UZ' i Zu{ b' M'j'nV' XZ' y{nX' MZ' WjZ' b' {aZ' yVannj' n\_bVZ| l jZyy{aZ' k ZXB'Mlml 'by M' Zk Zx Zl Vt' k ZXB'Mlml', ab'v'  
{aZ' y| XZl { by M' {anx' b' Z' n' V'x'f' M'X' yZ' \_Nk b by{Zx' Ut {aZ' uMkZl {µ | M'X'bMl' M'X' uxW{f'nl Zx°

AaZ' k nMkX' n\_ " X| VMlml 'xZw bZy{aMl Mj' y| XZl {y'UZ' uxnuZj'f' tk k | l b'Z' u| xy| Ml {n\_{aZ' uxnf'byl y'n\_{aZ' @Mz' } ZMj{a' z ZuMk{k Zl {  
xZ' | jMlml y° ° j'j' y| XZl {y'yaMj' UZ' xZw bZx' {n uxnf'Z' xZVnxYyZy{Mj'byab' {aMl {aZ'f' k ZZ{ {aZ' @Mz' } ZMj{a' z ZuMk{k Zl {y'  
tk k | l b' Mlml 'xZw bZk Zl {y'nxyb' l M, Nj'Zx'n\_{anyZ' xZw bZk Zl {y' l n'jMz'x{aMl {aZ' pÜ{a' yVannj' X'M' \_nxk {aZ' UZ' b' l b' 'n\_{aZ'  
yVannj' f'ZM' nxb' b' l' jZl xnj'k Zl { b' {aZ' z by{x' b' °

z by{x' b' '<nj' b' f' äPÜÜ°° Zx' xMl Z' " jZk Zl {M'f' by Vnl ybZxZX' M' l' A' l' @ ' ' @ ) 551 " 3G°? 532 " 3A°° nx{aZ' yMz' {f' n\_Mj' y| XZl {y'  
jMz'..UNj'nnl y, bjl' n{ 'UZ' Mj' n, Zx' b' {aZ' yVannj' U| b' X' b' 'y'uZx°

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) ZMk j' bZ' by M' l b' ZxyM' uxnuZjZk' M'X' by uMk{b| jMj'f' uxZ' f' yZl { Nk nl ' ZjZk Zl {M'f' yVannj' MZ' VajXxZl ° l n| {xnj' n\_j' bZ' b' Zy{Mlml 'by'  
UZy{aMl jXZ' Ut' NkZw MZ' {xZMk Zl {n\_{aZ' b' Zy{Zx' uZxynl 'M'X' aby' aZx' tk k ZXB'MZ' an| yZanj' X' M'X' n{aZx' VjnyZ' uZxynl M'f' Vnl {Mw{y°  
f' nk k | l bMlml ' \_nxk {aZ' yVannj' {n uMkZl {y' XbZ' j'f' M'X' {axn| ' a' uMkZl { M'X' Vj' Mj' yxnnk Z'X| VMlml 'n{aZ' y| XZl {y, bjl' aZ' j' b' VxZMjZ'

{aZ M MZI Zyy\_nxUn{a uMzi {yMIX ValbX^<Mzi {yI ZZx{n Vnl {b | Mjt nUyZxfZ {aZbValbX\_nx{abyun{ZI {bYjuxnUjZk MlX{xZMl  
MxwJ MZjt MlX MluxnuxbMzjt NyI ZVZyyMx^<Xb VnuNjySb VhnuZxMlbnl , lqa {aZ yVannj | xyZSyaNj XZ{Zk b Z , aZ{aZxVjMyxnnk  
b yuZV{bnl \_nxyl yuZV{ VjyZyn\_aZMx jbz MZ I ZVZyyMx^+ jMyxnnk b yuZV{bnl b Mj Uj bXb `yk M {Mz ujWZ M {aZ UZ b l b `n\_{aZ  
yVannj {Zx SMlX MlM b \_njjn, b `Ml t UxZMl b {aZ VjyZl XMXzy|j{b `b , aMl, n|jXl nx Mjt UZ\_bZ nxk nxZ yVannj XMlY^

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<jZMz Xxnu y{ XZl {yn\_b {aZ uMl b `jn{Ut {aZ y{nu yb l aAaZ XxZfZ, M b \_xnl {n\_{aZ Uj bXb `by\_nxLb@{xMl b/nl jt^\*\_tnl  
I ZZx{n Zl {Zx{aZ Uj bXb `nxZ. l tn| x fZabjZStnl | k | y{ uMl b {aZ uMl b `jn{y{Njy^

@Bz " 3A<1 O'B<

' nxk Myb `jZjb Z b {aZ uMl b `jn{ \_nxyl XZl {ubM | u^ž n l n{ uMl b `xnl {n\_{aZ Vnny, Nj nx b l n uMl b ` %nl Zynxl ZMl {aZ  
Ml{Zl nnl Uj y \_nxymZ{t MlX jZ Nj xZMynl y^Aaby, ljt aZju Zjtk b MZ Vnl `Zy{bnl MlX uxnfXZ \_nx{aZ yMz{t n\_Njy ValbXxZl a^3n y{ XZl {  
yaMj UZ xZjZMzX {n Ml tn l Z , an by l n{ Ml {anxZxXy| Va Vj y{nXt Ut {aZ uMzI {y^

H ° 10' ?@

@| XZl {y{aMl, Nj ank Z , ljt UZ Xbyk byZx n| {aZ \_xnl {Zl {xMl VZ jXnnxUAMlX MZ {n| yZ {aZ ybXZ, Nj Mj {aZ , M {n{aZ y{xZZ{^  
f abXxZl , ljt UZ y| uZxfyZx Mwnyy{aZ Vnny, Nj nl l n l l Zjj^ fZ^

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@| XZl {y, an xXZ Ub Z {n yVannj MZ {n, Mj {aZ Ub Z , abZ nl yVannj `xn| Xy^?bXb `b {aZ uMl b `jn{by l n{ Nj n, ZX \_nx tn| x  
ValbX y yMz{t^<Ml Ub Zy b {aZ Ub Z xMl X| x b ` {aZ XM^aH Z xZVnk k Zl X Ub Z jnVl y MlX aZjk Z {yMz y{xnl `jt Zl Vn| xMzX^

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" Mla Uj y, ljt | l jnM Ml {aZ \_xnl {Zl {xMl VZ jXnnxUAMlX `y{M\_k Zk UZx, ljt y| uZxfyZ MxbyNj MlX Xbyk byNj^

\* jZxl MZ AxMl yunx{Mlbnl

\*\_tn| xValbX xZw bZy Nj{Zxl MZ {xMl yunx{Mlbnl \_nx{aZ XM ujZMz yZl X M n{Z , lqa tn| xValbX b {aZ k nxl b `nxl n{Z {aZ VaMl `Z b `  
tn| xValbX y MZl XMluj Ml Xz^ fZxUjtk ZyyMz \_xk {aZ y{ XZl { , ljt l n{UZ MZujWZk Zl { \_nxuMzI {Vnl {Ml^až xnu\_n\_unb {k | y{  
UZ nl {aZ l nxk Mj Uj yxn| {Z^1 VjyZ n\_Ml Zk Zx Zl VtSMj{Zxl MZ {xMl yunx{Mlbnl k M UZ MxMl ZX Ut Vjyb ` {aZ yVannj^

L B@@ ) " ž B1"

' nx b \_nxk Mlbnl nl Uj y| | k UZxySubM | upXxnu n\_jnVMlbnl nx yVaZX| jZX Uj y{tk ZySujZMz Vnl {Ml {aZ l y{ MlMz Ml aYUaa!Paaa^

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@Mz{t by Ml Mnx Vnl VZl , aZl y{ XZl {yMz {xMl yunx{Zx {n MlX \_xk yVannj Ut Uj yZy^ @| XZl {yaMz {aZ ux b fZ Z {n xXZ M Uj y  
MlZx{aZ ZjZV{xnl b/MxZk Zl {byVnk ujZ{Z^ j xXZxyk | y{ \_njjn, {aZ x| jZyn\_Vnl X| V{ jby{ZX UZjn, ©

U^@| XZl {yk | y{UZ Ml {aZ Uj y{nu , aZl {aZ Uj yMxZySy{M n\_{aZ xnM MlX xZyZV{ {aZ uxnuZx{t n\_{aZxy^

Y^H Ml \_nx{aZ aMl Xy b l Nj \_xk {aZ XxZx{n Vnny^ j, M y Vnny b \_xnl {n\_{aZ Uj y^

P^?Zk Ml yZMzX Ml Nj {tk Zy^ MZ \_nx, Mx , aZl {aZ Uj yby b k n{bnl S l ZZub `ZZ{ MlX aMl Xyn| {n\_{aZ byZ^

B^ž n l n{Z . {Zl X tn| x aZ Mx S Ml ySaMl Xynx Ml t n U b Z V yn| {yXZ^

a^3n ZMl b `n \_nnX nx X b i b `n \_UZ fZx M Z yn l {aZ Uj y^

a^ž byl u{bZ UZaMfbnx, ljt Vnl {xbl | Z {n Ml MlXZl { MlX , ljt l n{UZ {njZxMzX^?ZyZV{ {aZ XxZx MlX n{aZxy^

a^@| XZl {yk | y{ xXZ Njy b l ZX Uj y| | jZy y My b l ZX uZk bybnl M | MlX Ml X {aZ yVannj n\_bZ^až x b Z yk M Njy b l yZM y^

a^<nnyZybnl n\_k MlVaZySj b aZxyS bZ , nxi ynx Ml t {ab `XMl `Zxn| yx b Xy| u{bZ , ljt l n{UZ Nj n, ZX nl {aZ Uj y^

a^1 Zjj uanl Z Vjy V M nl jt UZ k MZ , lqa ux b XxZx uZk bybnl a GbXZn nx ub{ | xZy b Ml t yVannj fZabjZ , lqa n| { Mluxn fMj \_xk M  
yVannj n\_bMj by uxnat b l Z X^1 byZl b `XZ f b Z yk M UZ | yZx nl jt `b | y b `Z M Uj Xynx aZ M k uanl Zy^

U0^ L ZaMfbnx by| Zynl {aZ Uj yk M xZy| j{ b {aZ y| yuZl ybnl n\_My{ XZl {y Uj y ux b fZ Zy^1 y| Va VjyZ S l UZVnk Zy {aZ

uMzI {μ | MlX Ml xZy unl y b l j{ {n ux n fXZ {xMl yunx{Mlbnl ^

@| yuZl ybnl \_xk Uj y xXb ` ux b fZ Zyk M nWl x b {aZ y{ XZl {©

U^ ByZy\_n | j Ml | MZ S\_b a{ySnx| yZy Xby| u{bZ UZaMfbnx^

Y^ y XbyZy uZV\_l j nx b Vnl y b XZx MZ n\_n{aZxy nx {aZ b uxnuZx{t^

P^ L x b ` y l Zk y n\_Ml t i b X nl {n{aZ Uj y{aMl, ljt UZ XMl `Zxn| ynx Xby| u{bZ^

B^ Mjy {n \_njjn, Uj y XxZx X b Z V{bnl y^

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Ob XZx MlZl aOa^0U^5l Z Alt Z @| XZl {?Z by{xMlbnl " ZZ

( xMzY U^a aOy a^0U @| XZl {AZVal njn^ t " Z Z l n fZxy MlXZl {Nj Ml MZ n\_y{ XZl {ZVal njn^ t , abZ Ml yVannj^

f axnk ZUnni y, bji\_njnn, yy{| XZI {y\_xnk " xWkZyÜ'ß"° \_ZxVnk ujZ{bnl 'n\_ xWkZ'ßSy{| XZI {y, bji{MIZ Vaxnk ZUnni y'ank Z{n'i ZZu°  
( xWkZyà, bji xZVZbZ'Z, Vaxnk ZUnni y'b , abVa {aZt'lyZ | | b'Vnk ujZ{bnl 'n\_ xWkZ'ä°@Z {aZ Ü@) M IXUnni 'nl j'b Z'\_nxk nxZ'  
b \_nxk M{bnl °

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?ZujWZk ZI { @ | XZI { " " ZI XM °Ca°ÜÜ

1ny{nxž Nk MZX 1bXxMt'nx| | xxb| | j| k k MZXb|y|aaa\_ZZy'fMt'

' bZjX'Axby °\_ZZy'fMt'

° ö° \_Zx@'annj \_ZZy'fMt'XZuZi Xb `nl 'uxn` xWk ZI xnjjk ZI {

Ä@n| jX'MMMVZjjZX\_ZZ xZy| j{b 'My| xuj| y'UMVZ b {aZ'y{| XZI {µ\_Nk bjt'NWn| | {aZ'y| xuj| y, bji UZ'MuujbZX{n M|t' | U'Nk'  
\_ZZyµb ZyMIXµnxjn, j| | Va'NWn| | {UMVZy°

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' nx{aZ yMZ{t'n\_M|y{| XZI {y'fyt'nxZi {Zxb ` {aZ'yVannj'X| xb ` yVannj'an| xyS, aZi y{| XZI {y'MZ'uxZyZi {Sk | y| y(nu'b {aZ'n\_bZ'  
\_by{° y{MIZ by| ZX'ž nx'n{aZx\_nxk y'n\_bZi {bM{bnl , bji UZ'yMMI ZX', b'a'n|x?M|{nxtyt{Zk °°° fyt'nx'UMK' Z'\_nx{aZ'fyt'k | y|  
UZ, nx| | unl 'Muxn'fM'

° I tk MyMIZ I n{Njn, ZX', b'an| {uxn'x'Muxn'fM'f\_nxk {aZ'yVannj'MIX'VjMyxnnk {Z'WaxZ°

H Z' | I XZxy{MIX{aM'y'nk Z'n\_n| xy{| XZI {y'MZ'\_x'nk y'ZuMMZX'\_Nk bZy° <jZMjZ'uxn'fXZ{aZ'yVannj, b'a'VhuZy'n\_jZ' NjXnV| k ZI y'  
b'\_tn| 'aMfZ'MhI VZx'\_nx{aZ'yMZ{t'nx, Zjj'UZb `n'\_tn| x'ValbXµValbXxZi °

<MZI {y| | MxMly'nxV'ßZi y, an'aMfZ'UZZI 'b'fZZX{n'fyt' {aZ'yVannj'My'UM{ 'n\_MyVaZX| jZX'nuZi 'an| yZSyuZVb|ZfZi {S  
yVaZX| jZX'uZx\_nxk MIVZ'Ut'MjMyS{Z'Nk 'nx' xn| uS'nxn{aZ'NX| j{UM{b'UMI {y'b 'nx' M'ßZX'MIX'yVannj'Muxn'fZX'W{b'fZy'X| xb `'  
n\_'yVannj'an| xyMIZ'Z.Zk u{ \_x'nk {aZ'fyt'nx'xZw' bZk ZI {y°

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° j|f'nj| | {ZZxy, bji UZ'xZw' bZx{n'y| Uk b{ 'n'Mxk b'Nj'UMI `xn| | X'VaZM {, n, ZZI y'uxn'x{n'M|t'f'nj| | {ZZx'uny'f'bnl , b'a{aZ'  
H M|{nk M' xZM@'annj'ž by{xb{°Aaby'b Vj| XZy{xMfZj'b ` , b'a'tn| x'ValbX'nl 'bZjX{xby°AaZ'ž by{xb{ 'yaNj' Vnl X| V{Vtk Z'b'\_nxk M{bnl '  
xZVhxYyVaZM {axn| ` a {aZ'H byVnl y'b ž ZuM{k ZI {n\_/| y{bZ°AaZ'H M|yaMM n| | {t @Zxb\_yž ZuM{k ZI {nx'Muxb'MZ MZI Vt k M'  
UZ'xZw' Zy{ZX{n'nU{M' Vnl fV{bnl 'xZVhxYy| n{M'Nj'MjZ{axn| ` a {aZ'ž ZuM{k ZI {n\_/| y{bZ°

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@| Xbz'yVnl yb{Zi {jt'yan, 'tn| x'ValbX'byk nxZ'jb Zjt {n'y| WZZX'b' yVannj'b'\_tn| MZ'b'fnj'fZX° H Z'yZzi {n'uxn' n{Z'UMZI {  
b'fnj'fZk ZI {b' M'fMtZ{t'n\_, M'y'yb VZ'b'Xb{X| Nj'\_Mk bjt' | ZZYy'MIX'yVaZX| jZy'fMt° H Z'| x Z'tn| {n'UZVnk Z'b'fnj'fZX'b' MZMj, abVa'  
b {ZxZy{ 'tn| M'X'VhnxXb MZ, b'a'tn| x'yVaZX| jZ°Jn| x'b'fnj'fZk ZI {, bji k MIZ Mxb\_ZxZi VZ'b' 'tn| x'ValbX-y\_ | {xZ°

G51B3A"?"@n'fnj| | {ZZx'tn| x{tk Z'nx'tn| x{NjZi {y'b' 'tn| x'ValbX-y'VjMyxnnk 'nx, b'a{aZ'yVannj'ujZMjZ'yuzM, b'a'tn| x'ValbX-y'  
VjMyxnnk {Z'WaxZ°1Z{{aZk 'i| n, , aZi 'tn| MZ'M'Nj'MjZ°\_tn| 'Xn'MxZZ{n'aZjuSujZMjZ'VMx't'n| {tn| x'Vnk k b{k ZI {a°° Vtk b'Nj'  
UMI `xn| | X'VaZM 'by'xZw' bZx'\_nx'Nj'f'nj| | {ZZxy°° n'k y'MZ'M'Nj'MjZ'b {aZ'n\_bZ'nx'nl j'b Z°

° AA" 3ž 1 53' " ? " 3I " @° nl \_ZxZi VZyMIZ'xZw' bZxU| {ujZMjZ'Xn'k MIZ {aZk 'Muxn'f'f'at' nk Z'uxZuMZX', b'a'M'by{ 'n\_wj Zy{bnl y°  
f ° 11° UxZ\_uanl Z'Vj| {n'tn| x'ValbX-y{Z'WaxZ'VM' UZ'aZju\_ j°AZMwaZy'k M'xZ| x| 'tn| x'Vj| M'abyaZxVnl fZi bZi VZ°

" 2 ° \*µ" I A° k Nj'VM' UZ'M'ZMj', M' {n'Vnl {NW' y{M'°@ | | u'nx'Vnk k | | bM{bnl 'Muyb'\_tn| x{Z'WaxZ'n\_Zxy{aZk °°° k M'Njn, '  
'xn| u'nx'nl Z'nl 'nl Z{Z. {b ` Vnk k | | bM{bnl °°° b' by'M' Zk Zx ZI Vt, Z| x Z'tn| {n'Vj| °

@° J \*3' 5?2 "ž @°'annj'EnMx'k ZZ{b' y'MZ'aZjX'k nl {ajt' M'X'UMZI {y'MZ, ZjVnk Z {n'M{Zi X°A'k ZyMIX'jnVn| y'MZ'u| UjbyaZX'  
b {aZ'H M|yaMM' x| y'MIX'nl {aZ'yVannj, ZUy'fZ°°° I MZI X'My'uny{ZX'M'yVannj'UZ'\_nxZ'Z'Wak ZZ{b ` °°°\_tn| MZ' | | MjZ' {n'  
M{Zi X'S{MIZ' {k Z' {n'xZ'Nk xZunx'y\_njnn, b ` Z'Wak ZZ{b ` °°

G51 " J5B? \*ž " @ 53I " ?3@°\_tn| 'aMfZ' My| ` Zy{bnl S'nx, M| {n'yaMIZ' M' bZMx'MhI VZx| SujZMjZ'Xn°°°\_tn| 'aMfZ' MhI VZx|  
xZ' Mx'b ` {aZ' VjMyxnnk SujZMjZ'XbV| y'f, b'a{aZ' {Z'WaxZ'\_by{ 'MIX{aZi 'b| ZZZXZSXbV| y'f, b'a{aZ' ux'b' Vn'fM'

\*3G51G" 2 " 3A° A) 52 " ° { {aZ'Zi X'n\_ {aZ'XM', aZi 'tn| x'ValbX'\_by{ yZzy'tn| SyZ{ M'ßZX' MZ, k b| {Zy{ 'n'yaMIZ {aZ'XM°t' aZM'  
{aZ'UMI uMI {n' Z{aZxSyb| {aZ'XNj'ujMI ZxSyamZ ZfZi {YSM'X° bZ'Zi Vn| xMZk ZI {°°°Z'Nk xZ' | jMj' {n'tn| x'ValbX'SZ'fZi M|Zx'tn| x'  
ValbX'jZM' y'an, {n'xZ'Nk°AMIZ' ux'XZ'b' 'tn| x'ValbX-y' MWnk ujbyak ZI {y°ž byujM' uMI Zxy'MIX'Nk, nx' x'MaZx{aM|\_b' b' M' M°

<°A°5°\_MZi {AZMwaZx'5x' M'ßM{bnl 'Äy'M' xn| u'n\_Nk| j{y'k ZZ{b ` {n' Z{aZx{ 'n'Zi aMIVZ {aZ'ZX| Vn|bnl NjZ. uZxZi VZ'n\_n| xy{| XZI {y'  
, b'a'yuzVb|ZfZi {yS' bZjX{xbyS\_ | | XxM' b' Su| x'ValbX' ` Zw' b'k ZI {°AaZ' <A5, bji'uxn' n{Z' M'X'y| uunx{ jZM' b' M'IX'U'Zxynl Nj'  
'xn, {a'MIX'VM' UZ'M' xZM'jZM' b ` Z. uZxZi VZ'\_nx'UMZI {y'My, Zjj° H ZI ZZX' | fVj| Z'f'nj| | {ZZxy, an'aZju, b'a'n| x'yuzVb|y'  
uxn'fZy°t' nl y'XZx'yaM' `tn| xy| bji'Ny'Mk-A5'f'nj| | {ZZx°°° | | n| | VZk ZI {y'UMn| {aZ'nx' M'ßM{bnl , bji UZ'uxn'fXZX{n'Nj'UMZI {y°



J ="; 9B 9F 5@8 =GHF =7H DC@=7 =9G 5B 8 B CH=79GÀ

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ž byxbf 3n(bZy@ |jj Xbyxbf unjbt MlX | uxMZYMZ MfMjZ nI {aZ Xbyxbf, ZUyqZ M, M {nk MjX^nx }

Gž "5 @B?G" 11 3I " " 3ž " 1"† A?53† 2 53 A5? \*3( 'ž \*@A?† A <51† J 'äbBÜPÜÜ "

H Ml {nk M@vannj ž byxbf by M {anxbZx\_nx {aZ | yZ n\_fXZn y| xFZbjMlVZ MlX ZjZV{xnl b/k nI lqnxb ` ZW luk Zl {Mj fMl | yVannj yqZy {axn | an | {aZ ž byxbf MlX nI yVannj U| yZy {n uxnfXZ MjMZ yVannj Zl fbnI k Zl {a^ V{nl yUzAMfMxMZ UZb ` k nI lqnxZX MlX xZVnxZX^ Xk b byxMInxy MZ Mjyn Ml {anxbZx {n | yZ unx{MljZ fXZn Vnk ZxMj, aZl xZyuni Xb ` {n b VxZl {y^ I t uZxynI , an {MlZy Nw{nl {n UjnM Sk n fZSnxMj {Zx {aZ jnVMl nI MlXpnx fZ, b ` M ` jZ n\_MfXZn Vnk ZxMyaMj UZ y| UfZV {n XbyMujb Mf Nw{nl a

^ I t b \_nxk Ml nI nU{Ml ZX \_nxk fXZn y| xFZbjMlVZ jZV{xnl b/k nI lqnxb ` yty{Zk yk M nI j† UZ | yZ {n y| uunx{ {aZ nxXZjt nuZxMl n\_ {aZ @vannj ž byxbf {y yVannj y MlX Mj bZySMlX\_nxjM Zl\_nxVZk Zl {u| xunyZySMlXl n{ \_nxMl t n{aZxU| xunyZy^ y y| VaSxZVnxXb ` ynU{Ml ZX {axn | a {aZ | yZ n\_fXZn y| xFZbjMlVZ jZV{xnl b/k nI lqnxb ` ZW luk Zl {k M UZ | yZ Mj Z fXZl VZ b Ml t XbyMujb Mf uxnvZZXb ` ySMk b byxMl fZ uxnvZZXb ` nxVtk b NjuxnvZZXb ` Sy| UfZV {n l nMlX unjbt MlX xZ | jMl nI y^ | x{aZxSy| Va xZVnxXb ` yk M UZVnk Z MuM{ n\_My{ | XZl {fY ZX| VMl nI xZVnxXnxy{M\_k Zk UZxq uZxynI | Zj \_bZ^

?ZVnxXb ` yn\_y{ | XZl {y, bj UZ {xZMZX Mj Vnl \_bZl {bY† nI yZw Zl {† SUZVM yZ {aZ l nMlX by Un | X Ut H byVnl yb < | ulq?ZVnxXy @Ml | Z MlX {aZ` M l† X| VMl nI Mj? b a {y MlX < x fW† V {ž " ? < ASvnuZy n\_fXZn xZVnxXb ` yVnl {Ml b ` uZxynI Mj bZl {b bMjZ b \_nxk Ml nI Mln | {y{ | XZl {y yaMj l n{ UZ xZjZMjZ X Z.VZu{ {n yVannj n\_bMjy, lq a jZ lqtk MZ ZX| VMl nI Mj b {ZxZy{y^ < MZl {ynx ` | MlX Ml yn\_k b nx y{ | XZl {y SMlX y{ | XZl {y, an MZ Zb a ZZl {Uä A† ZMj n\_MZ nxnjXZxS, an MZ VaMl ZX, lq a XbyMujb Mf fMjMl nI yk M fZ, xZjZ Ml {unx{nl yn\_Ml t fXZn xZVnxXb ` xZjMZX {n {aZ VaMl ZS| unI , xq Zl xZw Zyl {n {aZ U| bXb ` ux b VauNjS uxnfXZx {aM fZ, b ` {aZ xZVnxXb ` XnZyl n{ fMjMjZ @M Z MlXpnx` ZZX Mj jM l bZ^ {aZ ux fW† xb a {yn\_Ml t n{aZx y{ | XZl {y, anyZ tk MZy MduZM nI {aZ xZVnxXb ` A

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AaZ l nMlX xZVn l bZy {aM {aZ k by| yZ n\_Xx| y by MyZxnl | yuxnUjZk , lq a jZ NjSua ty b Mj SMlX yn VdYtk uj b Ml nI y\_nx {aZ Zl {bZ yVannj Vnk k | l l† AaZ l nMlX uxna b lqy {aZ | yZ Suny Zyytl Svnl VZ Nj k Zl {Snx Xbyxbf | nI n\_Ml t Xx| ` MlX Ml t Xx| ` uMl MäaZl Nj b Ml Ml t {k Z nI ž byxbf uxnuX{† nx Ml Ml t ž byxbf {xZjMZX ZfZl {^ Aaby b Vj | XZy Mj XMI ` Zxn | yVnl {xnjZX y| Uy{Ml VZy Mj yn XZy b l MZX MlX uxna b lqZ X Ut H byVnl yb y{Ml | ZSNj VaZk b Mjy, ab a xZjZ MjZ {n . b fMInxy SMj Nj Mnanj b UZ fZ xM Zy SMl t uxZy Vx b {nl nx uMlZl { Xx| ` SZ.VZu{ {anyZ\_nx, ab a uZxk by b {n | yZ b yVannj a M UZZl ` xMl {ZX u| xy | Ml {n l nMlX unjbt fSEj nni Mj b Zy ESMl Mlnj b y{Znx b y SMlX Ml t n{aZx b jZ` Mj y| Uy{Ml VZ yn XZy b l MZX MlX uxna b lqZ X Ut jM a

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AaZ l nMlX n\_ X| VMl nI by Vnk k lq ZX {n uxnfXb ` y{ | XZl {y Sy{M SMlX fby nxy, lq a M {n UMWn MlX yk ni Zl xZZ Zl fbnI k Zl {a^ An UMWn b Ml t \_nxk by uxna b lqZ X nI ž byxbf uxZk by Zyb ž byxbf fZab jZyS, lq ab Ml t b Xnnx\_Nw b t n, l ZX nxjZ MjZX nI Vnl {xMl {ZX\_nx Ut {aZ ž byxbf {SMlX | yZ {n uxnfXZ ZX| VMl nI nxj b Ml t yZ x fVZy {n ValjXxZl MlX Ml Mj ž byxbf {yuni ynxZX ZfZl {y^ Aaby b Vj | XZy U| {by l n{ jtk lq ZX {n yk ni ZjZy {n UMWn Sv b Mj Sv b MZ {Zy Subw Zl {n UMWn Sv aZ, b ` {n UMWn Syl | \_SMl t n{aZx k Ml {Zx nx y| Uy{Ml VZy {aM Vnl {Ml {n UMWn Sv b MlX lq b {n uMlZy | yZ {n xnj Vb MZ {Zy MlXpnx {aZ yk ni b ` n\_ZjZV{xnl b VSE fMInx f n{ aZx y| Uy{q | Z\_nxk yn\_Vb MZ {Zy Sv n fZ Vb MZ {Zy MlX Ml t n{aZx j b a Z X yk ni b ` XZ fVZy\_nx U| x b ` {n UMWn nx Ml t n{aZx y| Uy{Ml VZ^

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AaZ l nMlX uxna b lqy { | XZl {y \_nxk uny Zyyb ` Sy{nx b ` Sk Ml b ` Snx | yb ` Ml ZMnl b Ml t yZ {b ` {aM by | | XZx {aZ Vnl {xnj MlX y| uZx fVnl n\_ {aZ ž byxbf \_nx {aZ u| xunyZ n\_yVannj Ml b fZy Ml uxnfZX MlX Ml {anxbZx Ut {aZ ž byxbf {b Vj | Xb ` SU | {l n{ jtk lq ZX {n S uxnuX{† jZ MjZX Sn, l X Snx Vnl {xMl {ZX\_nx Ut {aZ ž byxbf {SMj Vannj yuni ynxZX ZfZl {Snx b Ml byxbf fZab jZS {n {aZ Z. Zl { uZxk lq ZX Ut jM a

AaZ {Zxk E, ZMnl E k ZMly Ml t n UfZV, ab a Sb {aZ k Ml Zx b , ab a lq by | yZxSly b {Zl XZX {n UZ | yZxSnx by xZuxZyZl {ZxSly Vn MjZ n\_b j b {b ` yZxnl | yUnXb† aMk nx uxnuX{† Xnk MZSMj, Zj Mj Zl XMI ` Zxb ` {aZ aZ Mj {a MlX yMZ {† n\_uZxynI y^ H ZMnl y b Vj | XZS

A

U| {MzI n{jt k tZX {nS bZMk yjb V| Xb` SU| {I n{jt k tZX {nS bZMk yMj XZ b ZX` Ua B@a a`aYUjMjPAs | I yn\_Mi+{tuZ`  
aMjnzfZxSb V| Xb` NkMIX` Mj`un, ZxZX` | I yz, aZ{aZxjnMZX nx| I jnMZXASi I bZySy| UZV{ {n {aZ`Z.VZu{bml yUZjn, AxMjxyS  
tga | | MZXUjMZYsV| UySjZVxbV, ZMni ySk Z{MjV i | V jZySk M{bMjMjy, ZMni ySNk k | I tbnl SMIX.Z.ujnybZy`

AaZ`z by{xbV` Xk b by{XMInx, bjj xZ ZxMI t y| XZ| {, an fbnjMZY{aby unjbt {n {aZ y| XZ| {-yUMZ| {ynx` | MxMjyMIX k M`Mjn k MIZ`  
MkZ\_xxy|{n jM` ZI`\_nxVZk ZI {aAaZ y| XZ| {k M`Mjn UZ`y| UZV{ {n XbVubj b Mt`NW{bml S| u {n MIX`b V| Xb` `Z.u| jytb` a`

^ I t y| XZ| {, an aMj xZMjnl {n UZjZfZ`{aM`MuZxynl` aMj`nx, bjj fbnjMZ {aby unjbt yaMj`xZunx` {n {aZ`z by{xbV` Xk b by{XMInx`{aZ`  
y| uZxYbnxn`{aZ`NW{bft tk k ZXbMjZ`aAaZ`xZunx`{yan| jX`b V| XZ`Mj k | Va XZ{Mj`Mj unyubjZ Vnl VZl b` {aZ`uZxynl` yAb`fnjZXS{aZ`  
ZMni S{aZ`jnVMl n`{aZ`uZxynl` yASMIX`an, {aby`b`\_nxk` Mlml`, Mj`nU{NB`ZX`3n y| XZ| {by`{n`Vnl`\_xnl` {aZ`uZxynl` unyZyYb`  
{aZ`, ZMni S| {Mj`M\_k`Zk UZx`aMj`{aZ`nu{bml`\_n`Vnl`\_xnl` {b` {aZ`uZxynl` b`{aZ`y{M\_k`Zk UZxUZjZfZy{aZ`xji`\_n`b`h`xt`{n`yZ`\_nx`  
n{aZ`xy`b`k`b`tk`Mj`nx`b`tk`k`ZXbMjZ`NW{bml`by`I`ZVzyMt`{n`uxZfZl`{b`h`xt`{n`Mi`+`uZxynl` a`

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@vannj`<xnuZx{t`

AaZ`EnMx`n`" X| VMlml` aMj`VaM` ZX`yVannj`Mj`{anx`tZy, tga {aZ`xZyuni`yubj`n`\_yMZ` | Mx`b` {aZ`yMZ`{t`MIX`, Zjj`UZb` `n`{aZ`  
y| XZ| {y`b` {aZ`b`VMZ`@`| XZ| {y`yaMj` | n`{aMfZ`M`Z.uZV{Mlml`\_n`uxb`NW`b` jnV`ZxySXZy`ySnxn`{aZ`yVannj`uxnuZx{t`Mj`{aZ`MZ`  
y| UZV{ {n`xM`Xnk` yZM`VaZy`Ut`yVannj`Mj`{anx`tZy`

<Zxynl`Mj`<xnuZx{t`

AaZ`EnMx`xZVn` I bZy`{aM`{aZ`uxb`NW`n`\_y| XZ| {ynx`aby`aZ`UZjnl` `b` `yk`M`I`n`{UZ`fbnjMZX`Ut` | I`xZMjnl` MjZ`yZM`Va`M`IX`yZb`oxZ`  
M`IX`XbZV`y`{aM`I`n`y| XZ| {UZ`yZM`VaZ`X`, tgan`{xZMjnl` MjZ`y| yub`bml` {aM`{aZ`yZM`Va`, bjj`{|`x`|`u`Z`f`XZ`I`VZ`{aM`{aZ`y| XZ| {aMj`  
fbnjMZX`nx`by`fbnjMl` `Ztga`Zx`MuM`{b|`jM`jM`\_nx`MuM`{b|`jM`x`jZ`n`\_{aZ`yVannj`a`

^ I t {ab` `n| I`X`b` {aZ`Vn| xyZ`n`MjZM`Va`u| xy| Ml`{ {n`{aby`unjbt`, abVa`Vnl`y{t`| ZY`Z`f`XZ`I`VZ`n`Mj`fbnjMlml`\_n`MuM`{b|`jM`jM`\_nx`  
yVannj`x| jZ`nx, abVa`ZI`XM` `Zxy`{aZ`yMZ`{t`nx`aZMj`{a`n`Mi`+`uZxynl` `yaMj`UZ`yZb`x`M`IX`uxnuZxjt`VMj`n`ZX`\_nx| yZ`Mj`Z`f`XZ`I`VZ`b`  
Ml`uxnuZM`@`bZ`X`tZ`k`y`yaMj`UZ`xZ`|`x`Z`X`{n`{aZ`n, I`Z`x`b`{aZ`tZ`k`y`k`M`UZ`jM`\_||`jjt`unyyZyZ`X`Ut`{aZ`n, I`Z`x`@`bZ`X`tZ`k`y`{aM`  
k`M`I`n`{jM`\_||`jjt`UZ`unyyZyZ`X`Ut`{aZ`n, I`Z`xy`aMj`UZ`{|`x`Z`X`nfZ`x`{n`jM`\_Zi`\_nxVZk`Zi`{a`

AaZ`EnMx`Mj`{anx`tZy`{aZ`| yZ`n`\_yuZVb`j`+{xNB`ZX`Xn`y`{n`XZ`ZV`{aZ`uxZyZl`VZ`\_Xx|`y`MIX`XZ`f`VZ`ynl`yVannj`uxnuZx{t`, aZl`  
Mj`{anx`bZ`X`b`M`X`f`M`VZ`Ut`{aZ`z`by{xbV` Xk b by{XMInxS.Z.VZu`b`Zk`Zx`Zl`Vt`y| Mlml`ySnx`by`u| xy| Ml`{ {n`Mm|`x`{n`XZ`Xinx`, MxMl`{a`

@Bz`3A`<?`G`+`J` `3z`<`?`3A`1`+`+`@@A5`\*3`5?2`°`A\*53`1z`\*A?`1 A`<51`J`YBUa`

<MzI`{y`aMfZ`{aZ`xb`a`{n`b`yuZV{S|`unl`xZw`Zy{SMI`+`b`y{x`V{bml`Mj`k`MZXb`jy| yZ`X`Mj`uM`{n`{aZ`ZX|`VMlml`MjV`x`b|`j|`k`n`\_{aZ`  
y| XZ| {a`AaZ`uMzI`{, bjj`aMfZ`MWZy`{n`{aZ`b`y{x`V{bml`Mj`k`MZXb`jy, tga`b`MxZMjnl`MjZ`uZx`n`\_`{tk`Z`Mf`Z`x`{aZ`xZw`Zy`by`xZVZ`bZ`X`  
Ut`{aZ`U|`b`X`b` `uxb`VouMj`P`AaZ`{Zx` `b`y{x`V{bml`Mj`k`MZXb`jy`k`ZMl`y`b`y{x`V{bml`Mj`Vnl`Zl`{ {aMj`by`uxn`f`XZ`X`{n`Mj`{|`XZ|`{SxZ`Mxj`Zyyn`  
tgy`\_nxk`Msb`V|`Xb` `uxb`{ZX`MIX`xZuzZyZl`{Mlml`Mj`k`MZXb`jySMl`Xb`f`by| Mj`k`MZXb`jy`MIX`k`MZXb`jy`b`ZjZV`xnl`b`nx`Xb`tMj`\_nxk`y`  
Zy| Va`Mj`k`MZXb`jy`MWZy`b`jZ`{axn|`a`{aZ`1`Zxl`Zl`A`AaZ`{Zx`XnZyl`n`{b`V|`XZ`MNXZk`b`{Zy`{ynx`Mjy`Zy`k`Zl`{y`

+53A?5G`?`@`1`\*@B`@\*3`A)` `+`1`@@552`1z`\*A?`1 A`<51`J`YBU`

AaZ`EnMx`xZVn` I bZy`{aM`Mvnl`xyZ`n`\_y| Xt`nxVZx`{NB`b`y{x`V{bml`Mj`k`MZXb`jy`k`M`Vnl`{NB`Vnl`Zl`{M`X`pnx`NW{bftZy`{aMj`ynk`Z`  
uMzI`{y`b`X`n`UzV{bml`MjZ`a`\*`Mf`Z`x`VMZ`\_||`jSuZxynl`Mj`xZfZ, n`\_{aZ`uxn`x`Nk`jZyynl`y`M`X`pnx`k`MZXb`jy`SMuMzI`{b`Xb`MZY`{n`{aZ`  
yVannj`{aMj`Ztga`Zx`Vnl`Zl`{nx`NW{bftZy`Vnl`j`b`y, tga`aby`aZ`xZj`b`bml`yUZjZ`ynx`f`Mj`Z`y`y`Zk`S{aZ`yVannj`, bjj`anl`nx`Ml`x`tZ`Zl`  
xZw`Zy`\_nx`aby`aZ`x`V`b`X`{n`UZ`Z.V`yZ`X`\_nxk`uM`{b|`jM`Vj`MjyZy`\_nx`yuZVb`Z`X`xZMjnl`y`aAaZ`y| XZ| {San, ZfZxS, bjj`n`{UZ`Z.V`yZ`X`  
\_nxk`uM`{b`V`Ml`b` `b`{aZ`Vn| xyZ`nx`NW{bftZy`k`M`IX`MZX`Ut`{aZ`@`MZ`MIX`, bjj`UZ`uxn`f`XZ`X`Mj`Zxl`Ml`bZ`jZMl`b` `NW{bftZy`X|`xb` `{tk`Zy`  
n`\_uMzI`{xZw`Zy`{ZX`MjyZl`VZy`H`b`a`M`a`U`Ua`y`a`P`U`a`

`nx`{aZ`uxb`NW`n`\_y| XZ| {y, anyZ`uMzI`{y`xZw`Zy`{aMj`{aZ`+`I`n`{MIZ`uM`{b` `{aZ`uM`{b|`jM`Vj`Mjy`uZx`n`\_nx`yuZVb`Z`X`xZMjnl`y`ux`n`x`  
MxMl`Zk`Zl`{y, bjj`UZ`k`MZX`\_nx`{aZ`y| XZ| {yA`n` `n`{n`Mj`uZx`f`Y`Z`jn`VMlml`, aZxZ`| I`XZx`{aZ`y| uZx`f`y`bml`\_n`Mj`{M\_k`Zk`UZx`{aZ`  
y| XZ| {yA, bjj`UZ`uxn`f`XZ`X`, tga`{aZ`Mj`Zxl`MZ`jZMl`b` `NW{bftZy`X|`xb` `{aZ`xZw`Zy`{ZX`MjyZl`VZ`+`nk`uj`NB`{y`Ut`y| XZ| {ynx`{aZ`  
u| Uj`b`xZ`Mx`b` `Mi`+`y| Va`Vn| xyZ`n`\_y| Xt, bjj`UZ`aMj`XZ`b`Mvnx`Ml`VZ, tga`EnMx`<njbt`aUBU`

<B`E`1`1`?`>`B`@`A`S`B`(` `@`A`53`S`5?`+`52`<1`\*3A`@`1z`\*A?`1 A`<51`J`aUBU`

^ I t`b`Xb`b`| Mj`y`SaMf`b` `MjZ`t`tk`MZ`b`{ZxZy`{b`{aZ`y`{M`Suxn`x`Nk`y`M`IX`nuZx`Mlml`yn`\_{aby`z`by{xbV` yaMj`aMfZ`{aZ`xb`a`{n`uxZyZl`{M`  
xZw`Zy`{Sy|` `Zy`{bml`Snx`Vnk`uj`NB`{n`{aZ`z`by{xbV`MIX`{aZ`EnMx`a`y`by`{aZ`XZy`bZ`n`\_{aZ`EnMx`{n`Mx`xZy`Mi`+`y| Va`k`Mf`{Zy`{axn|`a`  
XbZV`{Sb`\_nxk`Mj`XbV|`y`bml`y`MIX`n`{aZ`xk`ZMl`y`a`y`by`n`j`+`, aZl`Mf`{Zk`u`y`Ml`b`\_nxk`Mj`XZyyn|`{bml`\_Mj`{aMj`k`nxZ`\_nxk`Mj`uxn`VZ`X`xZy`

yaNj UZ yZx<sup>a</sup> ( ZI ZxNj tSxZw Zy(ySy) ` Zy(tnl ySnxVnk ujn<sup>b</sup> {yXZWab` {aZ`EnMx`nx`EnMx`k Zk UZxy`yaNj UZ`xZ`ZxxZX`{n`{aZ`  
ž by(xb/` Xk b by(xMnx`nxVnl ybXZxMl<sup>a</sup> " I t b XbFb| NjuxZyZl {b` y| Va Mk M{Zx`yaNj UZ`uxn`fXZX` , l<sup>a</sup> Mnut`n\_{aZ`\_j`j`unjbt<sup>a</sup>

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AaZ`EnMx`n`\_X| Vm|l<sup>a</sup> byVnk k l{ZX`{n`uxn`fXb` `M` Zw`NjZX| Vm|l<sup>a</sup> Njnuunx{| I l{t`\_nx`Mj`y{| XZl {y`b` {aZ`ž by(xb/`<sup>a</sup>AaZ`EnMx`XnZy`  
l n{`XbVxk b MZ`nl {aZ`UyNj`y`n`xWZ`SVnjnx`SxZj`b`l S| M|l<sup>a</sup> Nj`nx`b` SMI`VZy`{x`SvXZ`X`Sux` I MI`Vt`Sk` M{t`Njy`{M|`y`SuM`Zl`{Njy`{M|`y`S`  
yZ`\_l`Nj`nx`Zl`{M|l<sup>a</sup> SyZ`\_Sž`b`Vj| Xb` `xMly` Zl`XZx`y`{M|`y`S`Va`M` Z`n`\_yZ`\_nx` Zl`XZx`bXZl`{l{t`A`Snx`uat`y`b`Nj`Sk` Zl`{Nj`SZk`n`{nl`Nj`Snx`jZ`M`b`  
Xb`Nj`b`l{t`ž`E`xn`{ZV`{ZX`j`Nj`yZy`E`A`b` M`l`n`\_l{y`y`{| XZl {uxn`xM` M`X`Nj`{b`f`ž`y`<sup>a</sup>

?Zunx{b` <xnVZX| xZy`

@| XZl {y`SuM`Zl`{y`M`X`Nj`n`{aZ`x`k` Zk` UZxy`n`\_{aZ`@`annj`ž by(xb/` Vnk`k` | I l{t`M`Z`Zl`Vn|`xM`Z`X`{n`uxn`k` u|j`t`xZunx`{y|`yuZV`{ZX`  
f`onj`M|l<sup>a</sup> y`n`\_{aby`unjbt`{n`M`{Z`M`W`Z`x`n`x`M`k` b` by(xMnx`<sup>a</sup> I t {Z`M`W`Z`x`n`x`M`k` b` by(xMnx`<sup>a</sup> an`xZV`b`Zy`y|`Va`M`nk`ujN<sup>b</sup> {yaNj`\_l`ž`l` , l<sup>a</sup>  
{aZ`ž by(xb/`-y`t`nk`ujN<sup>b</sup> VZ`5`\_b`Z`x`M`aby`aZ`x`\_by`{nuunx`{| I l{t`@`| XZl {y`<sup>a</sup> an`UZj`ž`fZ`{aZ`t`a`M`Z`UZZl`\_XZl`l`Z`X`Zw`Nj`N`W`Zy`y`{n`ž by(xb/`  
Z`X| Vm|l<sup>a</sup> Nj`nuunx`{| I l{t`Zy`Sb` M`k` Ml` Zx`b` Vnl`y`b`{Zl`{ , l<sup>a</sup> {aby`unjbt`k` M`b` l{b`M`Z`M`nk`ujN<sup>b</sup> {M`X`{aZ`b`fZy`{b`M|l<sup>a</sup> `uxn`VZy`y`{aM`by`  
yZ`\_nx`{a`U`Z`n`<sup>a</sup>† l{b`M`b` `M`nk`ujN<sup>b</sup> { , l{t`l`n`{N`f`Z`y`Z`j`t`M`Z`V`{aZ`Vnk`ujN<sup>b</sup> b` `b`Xb`Fb|`Nj`y`u`M`{b`w`M|l<sup>a</sup> `b`Z`X| Vm|l<sup>a</sup> Nj`nx`  
Z`\_x`M`V`x`b`|`j`N`uxn`x`M`k`y`|`I`J`Zy`y`{aZ`Vnk`ujN<sup>b</sup> b` `b`Xb`Fb|`Nj`k`M`Zy`{aZ`Vnk`ujN<sup>b</sup> {k`Nj`b`l`n`y`j`t`nx` , l<sup>a</sup> i`l`n` , jZ`X`Z`{aM`l`y`\_Nj`yZ`<sup>a</sup>

AaZ`EnMx`XZy`b`l`M`Zy`{aZ`\_n`j`n` , b` `b`Xb`Fb|`Nj`{n`yZ`x`fZ`M`y`{aZ`ž by(xb/`-y`t`nk`ujN<sup>b</sup> VZ`5`\_b`Z`y`E`j`5`-y`A`i`5`-y`M`Z`xZy`unl`y`b`jZ`\_nx`  
V`nn`X`b`M|l<sup>a</sup> `\_{aZ`ž by(xb/`f`y`Z`\_nx`{y`{n`Vnk`ujt` , l<sup>a</sup> {aZ`M`u`j`b`M`U`j`Z`\_Z`X`Z`x`Nj`M`X`@`M`Z`j`M`y`M`X`xZ`\_|`j`M|l<sup>a</sup> y`Sb`Vj|`Xb` `\_{aZ`ž by(xb/`f`y`  
X|`{t`{n`N`X`x`Zy`y`b` M`uxn`k` u|`M`X`Zw`l`l`M`U`j`Z`k` Ml` Zx`M`l`t`b`w`l`b`Z`y`n`x`Vnk`ujN<sup>b</sup> {y`xZ` M`X`b` `Xb`Vxk` b`M|l<sup>a</sup> `nx`Zw`Nj`N`W`Zy`y`<sup>a</sup>AaZ`t`5`-y`  
Nj`n`fZ`x`b`|`{aM`uxn`Z`l`n`{b`Z`n`\_l`nl`Xb`Vxk` b`M|l<sup>a</sup> `nx`Ab`jZ`\*\*n`\_{aZ`" k`Z`x`b`M`y` , l<sup>a</sup> ž by`Nj`b`l{t`ž`y` V`{j`y`N`k` Zl`XZ`X`S`A`l`jZ`G`M`X`G`\*  
n`\_{aZ`t`b`f`?`b`a`{y` V`{n`\_U`a`a`S`A`l`jZ`\*`n`\_{aZ`" X| Vm|l<sup>a</sup> " k`Zl`Xk`Zl`{ " V`{n`\_U`a`a`Y`S`Z`V`{nl` `a`U`b`n`\_{aZ`?`Za`M`b`l{t`M|l<sup>a</sup> " V`{n`\_U`a`a`P`j`y`  
N`k` Zl`XZ`X`S`b`y`uxn`f`XZX`{n`y`{| XZl {y`S`{aZ`b`u`M`Zl`{y`Sy`{M`\_k` Zk` UZxy`S`M`X`{aZ`" Zl`Z`x`Nj`u|`U`j`b`<sup>a</sup>

ž ZU`<xZk`n`

<M`i`y`b`X`@`annj`" <x`b`V`u`Nj`  
H`M`{n`k`M` xZM`@`annj`ž by(xb/`  
ääá`@`|`{a`i`N`k`U`x`X`Z`@`xZ`Z`{`  
H`M`{n`k`M`\$`H`\*`ä`B`ä`ä`Y`  
ž`ä`Y`U`A`ä`ä`ä`a`U`U`Y`  
ux`Zk`n`Xl` , M`{n`k`M`U`Y`<sup>a</sup> , b`|`y`

/Zl`l`b`Z`x`/`nal`y`nl`

H`M`{n`k`M`b`a`@`annj`" <x`b`V`u`Nj`  
H`M`{n`k`M` xZM`@`annj`ž by(xb/`  
ääá`@`|`{a`i`N`k`U`x`X`Z`@`xZ`Z`{`  
H`M`{n`k`M`\$`H`\*`ä`B`ä`ä`Y`  
ž`ä`Y`U`A`ä`ä`ä`a`U`U`Y`  
h`mal`y`nl`h`i` , M`{n`k`M`U`Y`<sup>a</sup> , b`|`y`

\*1`fZy`{b`M|l<sup>a</sup> M`X`t`nk`ujN<sup>b</sup> {<xnVZX| xZ`

AaZ`t`5`yaNj`b`fZy`{b`M`Z`M`l`Vnk`ujN<sup>b</sup> {y`U`xn|`a`{| I`XZx`{aby`unjbt<sup>a</sup>A`axn|`an|`{`{aZ`Vn|`xyZ`n`\_{aZ`uxn`VZy`y`M`y`XZy`Vx`b`Z`X`aZ`x`b`S`{aZ`  
t`5`yan|`j`X`i`Z`Zu`{aZ`u`M`{l`ž`y`b`\_n`k`Z`X`n`\_{aZ`y`{M|`y`n`\_{aZ`b`fZy`{b`M|l<sup>a</sup> M`X`{aZ`XZ`V`y`b`l`k`M`b` `uxn`VZy`y`<sup>a</sup> j`j`Vnk`ujN<sup>b</sup> {y`k`|`y`  
b`Vj|`XZ`{aZ`\_n`j`n` , b` `b`\_n`k`M|l<sup>a</sup> {n`{aZ`Z`\_Zl`{l`{b`y`Nj`Nj`M`U`j`Z`@`N`X`Zy`V`x`b`{nl`n`\_{aZ`Nj`Z`\_Z`X`f`onj`M|l<sup>a</sup> S`{aZ`b`XZl`{l{t`n`\_{aZ`b`Xb`Fb|`Mj`y`<sup>a</sup>  
U`Z`j`ž`fZ`X`{n`a`M`Z`Zl`\_M`Z`X`b`S`nx`{n`U`Z`Nj`{b`Z`j`t`Zl`\_M`b` `b`S`Vnl`X|`V`{b`f`onj`M|l<sup>a</sup> n`\_{aby`unjbt`f`S`b`M`l`t`M`X`Z`{M`Z`X`XZy`V`x`b`{nl`n`\_{aZ`  
\_M`{y`|`unl` , ab`a`{aZ`Vnk`ujN<sup>b</sup> {b`y`U`Nj`Z`" M`X`M`j`y`{n`\_un`Zl`{b`j`l` , l<sup>a</sup> Z`y`yZ`y`<sup>a</sup>

AaZ`EnMx`xZy`z`x`fZy`{aZ`x`b`a`{`{n`b`fZy`{b`M`Z`M`X`xZy`n`j`fZ`M`nk`ujN<sup>b</sup> {n`x`xZunx`{n`\_xZ` M`X`j`Zy`y`n`\_ , aZ`{aZ`x`{aZ`k`Zk`UZx`n`\_{aZ`@`annj`  
ž by(xb/` Vnk`k` | I l{t`nx`{ab`X`u`M`{t`V`anny`Zy`{n`u`|`xy|`Zy`{aZ`Vnk`ujN<sup>b</sup> {<sup>a</sup>AaZ`EnMx`Nj`n`xZy`z`x`fZy`{aZ`x`b`a`{`{n`a`M`Z`{aZ`Vnk`ujN<sup>b</sup> {  
b`fZy`{b`M|l<sup>a</sup> Vnl`X|`V`{ZX`U`t`M`Z`\_Z`{Zl`Nj`u`Z`xynl`b`M`W`n`X`M`V`Z` , l<sup>a</sup> {aby`unjbt`nx`b`y|`Va`n`{aZ`x`k`Ml`Zx`Nj`XZ`Zk`Z`X`M`u`x`n`u`x`b`M`Z`U`t`  
{aZ`EnMx`<sup>a</sup>

\*XXl{t`nl`Nj`@`annj`ž by(xb/` V`{nl`

\*\_{aZ`Z`f`X`Zl`VZ`y|`Zy`{y`{aM`M`l`Vnl`X|`V`{M`byy|`Z`f`onj`M`Zy`M`l`n`{aZ`x`unjbt`Zy`n`\_{aZ`EnMx`S`b`M`X`k`Z`S`n`x`Zw`b`Zy`k`M`X`M`n`x`t`  
xZunx`{b` `| I`XZx`{aZ`t`ab`X`xZl`f`y`t`n`XZ`ž`@`V`B`ä`ä`ä`U`\$`H`by`@`M`<sup>a</sup>S`{aZ`t`5`nx`ž by(xb/` " Xk`b`by(xMnx`yaNj`{M`Z`y|`Va`N`X`b`l`n`Nj`Nj`{nl`y`Nj`  
l`ZV`Zy`M`t`M`X`M`u`x`n`u`x`b`M`Z`| I`XZx`{aZ`V`b`v|`k`y`{M`VZy`S` , ab`a`k`M`b`Vj|`XZ`M`X`Zunx`{`n`{aZ`M`u`x`n`u`x`b`M`Z`y`n`V`b`j`y`Z`x`f`Z`M`X`p`n`j`M`  
Zl`\_nx`Zk`Zl`{M`Zl`Vt`Va`N`k`Z`X` , l<sup>a</sup> xZy`unl`y`b`l{t`ž`\_nx`a`M`X`j`b` `y|`Va`b`fZy`{b`M|l<sup>a</sup> y`<sup>a</sup>

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\*1`n`x`Z`x`{n`uxn`f`XZ`M`u`x`n`u`x`b`M`Z`Z`X| Vm|l<sup>a</sup> Nj`y`Z`x`f`Zy`M`X`uxn`x`M`k`b`k`b`S`{aZ`EnMx`n`\_X| Vm|l<sup>a</sup> k`|`y`{V`h`j`ZV`{S`x`Z`{N`b`S`M`X`|`yZ`  
b`\_n`k`M|l<sup>a</sup> M|nl`{`b`Xb`Fb|`Nj`y`{| XZl {y`<sup>a</sup>@`k`|`j`{M`Z`n|`y`j`S`{aZ`EnMx`xZ`Vn`l`b`Z`y`{aZ`l`Z`X`{n`y`M`Z`|`N`X`y`{| XZl {y`-u`x`b`Nj`t`M`X`xZy`{b`  
N`W`Zy`y`{n`y`{| XZl {y`-u`Z`xynl`Nj`t`b`XZl`{b`b`M`U`j`Z`b`\_n`k`M|l<sup>a</sup>

5l`j`t`E`X`b`Z`V`{n`x`t`b`\_n`k`M|l<sup>a</sup> E`xZ` M`X`b` `M`y`{| XZl {yaNj`UZ`xZ`Z`M`Z`X`{n`M`l`t`u`Z`xynl`n`x`u`M`{t`S`n`{aZ`x`{aM`{aZ`y`{| XZl {n`x`aby`aZ`x`  
u`M`Zl`{S` , l<sup>a</sup>n`{`|`{aZ` , x`l`{Zl`Vnl`yZl`{n`\_{aZ`u`M`Zl`{S`\_VZ`u`{M`y`uxn`f`XZX`U`t`M`u`j`b`M`U`j`Z`j`M`<sup>a</sup>@| XZl {x`V`x`x`y`yaNj`UZ`M`Nj`M`U`j`Z`nl`j`t`{n`  
y`{| XZl {y`M`X`{aZ`b`u`M`Zl`{y`S`Z`j`b`b`jZ`y`{| XZl {y`S`Zy`b`l`M`Z`X`y`annj`n`\_b`b`j`y` , an`a`M`Z`M`Z`l`k`M`Z`Z`X| Vm|l<sup>a</sup> Nj`b`{Z`x`Zy`{b`{aZ`b`\_n`k`M|l<sup>a</sup> S`nx`{n`n`{aZ`

b XbX| Nynxnx Ml bMl yMyuzk t{ZXUtJM @| XZI {EXbZV(nxt b \_nXk Mlml k M Vnl {N E a y| XZI {I M Z E a uan{n xMa t a uM(bMlml b n bMl) t xZVn l bZx MW(bfzzyM X yunx y z aZb a{ M Xpnx, Zb a{Sb Mk Zk UZxn\_Ml MajZ{b{ZnK a XZ xZyM X M Xy xZVZbZX a

<MZI {yM X Zj b bJZ y| XZI {y k M xZ yZ {n Njn, {aZ EnM X {n XbYjnyZ M t nxNj n\_y| Va EXbZV(nxt b \_nXk Mlml E| unl , x{ZI l n{bMlml {n {aZ EnM X, t a b \_n| xZZI UBAXMyM{Z x xZVZb{ n\_{aZ z by(xb{ Xk b by(xMnx y M l | Nj u| Uj b/ l n{bZ nxZI xnjjk ZI { n\_{aZ y| XZI {b {n {aZ z by(xb{ b\_y| Va ZI xnjjk ZI {nW| xyM{Zx{aZ M l | Nj u| Uj b/ l n{bZ a I t uMZI {nx Zj b bJZ y| XZI {aM xZ yZy {n Njn, XbYjny| xZ n\_XbZV(nxt XM M{aM uM(bMlM Zy b Z. xM V| x b/ jM X MW(bfzzyk | y{ Vnk uJ Z Z nX YBP U U a <MZI { M l n, jZ X Zk ZI {n\_? bi M X ? Zj Z M Z S, a b Va b V| X Z Y M j k t M l ml n l {aZ xZ yM {n XbYjnyZ XbZV(nxt b \_nXk Mlml nU{N X X X| x b {aZ Vn| xyZ n\_{aZ y| XZI {y uM(bMlml b Z. xM V| x b/ jM X MW(bfzzy a

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**Redgranite Elementary School 4K-5th Grade Student Supply Lists**  
**Wautoma School District 2020-21**

**4 year old Kindergarten - Room 114**

- Backpack(bring everyday/label with name)
- Non-marking Velcro shoes-MUST KEEP AT SCHOOL
- Headphones(no earbuds)-MUST KEEP AT SCHOOL
- 2 Boxes of Crackers
- 1 Set of spare clothes to keep at school  
(Labeled in ziploc bag, replace as needed)
- 1 bottle white glue
- 3 glue sticks
- Non-marking velcro athletic shoes-keep at school
- 1 box gallon ziploc bags
- 1 box kleenex

**Kindergarten - Room 120**

- Large Backpack (bring everyday)
- Non-marking velcro athletic shoes-keep at school
- Headphones(no earbuds)-keep at school
- 5x8" School box
- 1 Pair of Scissors
- 6 #2 pencils
- 1 Pink Eraser
- 2 Dry Erase Markers (EXPO-low odor)
- 2 Boxes of Crayons (24-count)
- 1 Box of Markers (washable)
- 12 Glue Sticks
- 4 Pocket Folders
- 2 Spiral Notebooks
- 2 Boxes of Kleenex / Facial Tissue
- 4 Boxes of Crackers (Send 1 each quarter)
- 1 Box of Snack Size Ziploc bags-boys
- 1 Box of Sandwich Size Ziploc bags-girls
- 1 Set of spare clothes to keep at school

**1st Grade - Room 125**

- Large Backpack(bring everyday)\*No binders
- Non-marking athletic shoes-keep at school
- Headphones (no earbuds)-keep at school
- 5 x 8" School box
- 1 Pair of scissors
- 6 #2 Sharpened Pencils
- 1 Pink eraser
- 24-count box crayons with 8 basic colors
- 12 Glue sticks
- 2 bottles of glue
- 4 Pocket folders- label with child's name
- 2 Spiral notebooks
- 2 Boxes of Kleenex / Facial Tissue
- 4 Boxes of crackers (Send 1 each quarter)
- 1 Box of 1 or 2 gallon size Ziploc bags
- Set of extra clothes to keep at school
- Optional- Markers and colored pencils

**2nd Grade - Room 115**

- Large Backpack (bring everyday)\*No binders
- Non-marking athletic shoes-keep at school
- Headphones-keep at school
- 5 x 8" School box
- 1 Pair of scissors
- 10 #2 Pencils-replace as needed
- 1 Pink Eraser
- 4-Black EXPO Markers (fine tip)
- 24-count box crayons
- 12-count box Colored pencils
- 10-count box of markers
- 6 Glue sticks and 1 Bottle of glue
- 4 Pocket folders
- 3 Spiral notebooks - wide ruled
- 1 Package (3\*3) Post it notes
- 2 Boxes of Kleenex
- 4 Boxes of crackers (Send 1 each quarter)
- 1 Box of quart size Ziploc bags-boys
- 1 Box of gallon size Ziploc bags-girls

### 3rd Grade - Room 126

- Large Backpack (bring everyday) \*\*No binders
- Non-marking athletic shoes-keep at school
- 1 Pair of headphones-keep at school
- 5x8" Plastic School Box
- 1-Pair of Scissors
- 1-Box of 12 #2 Ticonderoga Yellow Pencils (replace as needed)
- 2-Pink Erasers
- 4-Black EXPO Markers (fine tip)
- 1-Black Sharpie Marker (fine tip)
- 2-Highlighters
- 1-24-Count Box of Crayons
- 2 Boxes of Kleenex
- 2-Wide-Ruled Spiral Notebooks
- 1-Two Pocket Folder
- 1-Composition Notebook
- 1-Package of Post-It Notes (3x3)

### 4th Grade Supply List - Room 127

- 1 Large Backpack (bring everyday)
- Non-marking athletic shoes-keep at school
- Headphones-keep at school
- 5\*8" School box or zipper pencil pouch
- 1 Pair of scissors
- Several pencils (replace as needed)
- 1 Pink eraser
- 4-6 Dry erase markers (thin tip-pencil size)
- 1 Highlighter
- Dry Eraser (or markers with eraser tips)
- Colored pencils and/or crayons
- 1 large bottle of glue
- 5 Folders
- 4 Notebooks (wide ruled)
- 1 package of post it notes
- 2 Boxes of Kleenex

### 5th Grade - Room 128

- Large Backpack (bring everyday)  
-No Trapper Keepers/Binders
- Non-marking athletic shoes-keep at school
- 1 Pair of headphones-keep at school
- 1 fabric, softshell Zipper pencil pouch
- 1 Pair adult size 8" Scissors
- 24 - #2 Pencils (replace as needed)
- 2 Pink erasers
- 1 Black Sharpie marker
- 1 Highlighter (replace as needed)
- 1 Box crayons
- 1 Box colored pencils
- 1 Pack of glue sticks - replace as needed
- 3 Pocket folders
- 4 Notebooks wide ruled
- 2 Composition notebooks
- 1 Pack of loose leaf paper OR graph paper
- 2 Packages (3\*3) Post it notes
- 3 Boxes of Kleenex

### OPEN HOUSE

**4K only Tuesday, August 25th 3-5 P.M.**  
**K-5 Wednesday, August 26th 4-5 P.M.**

Stop in by Redgranite school to meet your teachers and classmates, bring your school supplies to your room and tour the school.

**Redgranite Elementary School 4K-Grade 5**  
**513 Bonnell Ave**  
**Redgranite, WI 54970**  
**P. 920.566.2357**  
**F. 920.566.0490**  
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