

a /B * ` M Qi

R 3 k 9

_ û ~ 2 t B Q M b b m ` H T m B b b

K Qi ` B + 2 / m 7 2 m

2 i b m ` H 2 b K + ? B M 2 b T ` Q

/ û p 2 H Q T T 2 ` + 2 i i 2 T m B b b

h 1 s h 1 ~ G A " _ 1

§ ~ S _ h A * A S h A P L a ~ G A " _ 1 a

~~3 m ` H m b B 7 ` H 2~~ k 8 Q ? i k y k R

S 2 ` b Q M M B ; M Q ` 2 [m 2 H + ? H 2 m ` T 2 m i i ` 2 H

K Q m p 2 K 2 M i - [m ö 2 H H 2 T Q b b / 2 K K 2 m M 2 ; `

K Q i ` B + 2 ~ , H 2 b K + ? B M 2 b " p T 2 m ` - m D Q m ` / ö

2 M b Q M i m M 2 T ` 2 m p 2 T ` H M i 2 " i Q m b H 2 b v 2

* ö 2 b i " H + ? H 2 m ` [m 2 / Q B p 2 M i i ` 2 i i ` B # m

K Q m p 2 K 2 M i b [m B 7 ` T T 2 M i M Q b ` 2 ; ` / b b m ` H

2 H H 2 [m 2 b Q M i / m 2 b H 2 b ; B i i B Q M b / 2 H ö i K

b B Q M / 2 b M m ; 2 b - H + ? m i 2 / 2 b T H m B 2 b 2 i / 2 b

H 2 b + Q m ` M i b / ö 2 m [m B b B H H Q M M 2 M i H b i

/ Q M i H ö ? Q K K 2 2 b i T ` p 2 M m " 2 K T H Q v 2 ` T Q r

k a /B * `MQiX_ B 3 2 0 B K M b b m ` H T m B b b M + 2 K Q

m M 2 7 B # H 2 T ` i B 2 ~ c 2 M } M H 2 b i ` 2 K # H 2 I
û ` m T i B Q M b p Q H + M B [m 2 b - ` 2 + Q M M B b b 2
+ ? H 2 m ` X

* ö 2 b i / M b + 2 i B K K 2 M b 2 ` û b 2 ` p Q B ` [m 2
T m B b 2 ` H 7 Q ` + 2 K Q m p M i 2 M û + 2 b b B ` 2
M i m ` 2 - 2 M M Q m b Q z ` M i / 2 i Q m i 2 b T ` i b
M Q m b / Q M M û H 7 + m H i û / 2 7 B ` 2 M W i `
2 M i Q m b H B 2 m t H + ? H 2 m ` 2 i H T m B b b M
H b m B i 2 X . û p 2 H Q T T 2 ` + 2 i i 2 T m B b b M + 2 -
m b ; 2 - i 2 H 2 b i H ö Q # D 2 i / 2 b K + ? B M 2 b " 7 2

G ö û i m / 2 / 2 + 2 b K + ? B M 2 b 2 b i / m T H m b ?
B K T Q ` i M + 2 2 b i B K K 2 M b 2 - H 2 m ` 2 K T H Q B
D Q m ` b X 1 H H 2 b T ` B b b 2 M i / 2 b i B M û 2 b " T
` û p Q H m i B Q M / M b H 2 K Q M / 2 + B p B H B b û X
2 t T H Q B i 2 M Q b K B M 2 b - 7 B i K Q m p Q B ` M Q
T Q ` i b 2 i M Q b ` B p B ` 2 b - 7 Q ` ; 2 H 2 7 2 ` - 7 I Ö
H 2 b ; ` B M b - } H 2 2 i Q m ` / B i M Q b û i Q z 2 b - i
T 2 b M i b 7 ` / 2 m t - 2 i + X 1 H H 2 b 2 K # H 2 / 2 p Ö
/ 2 K Q i 2 m ` m M B p 2 ` b 2 H 2 i Q # i 2 M B ` H T ` û 7
/ 2 b M B K m t - H 2 b + ? m i 2 b / ö 2 m 2 i H 2 b + Q r
b m ` H 2 T ` 2 K B 2 ` / 2 + 2 b K Q i 2 m ` b - H ö p M i ;
b m ` H 2 b / 2 m t m i ` 2 b - H ö p M i ; 2 B M T T ` û
b ö 2 K T H Q v 2 ` 2 M i Q m b i 2 K T b 2 i 2 M i Q m b H B
b Q m z ` B ` / ö B M i 2 ` ` m T i B Q M / M b b Q M i ` p B

a B [m 2 H [m 2 D Q m ` H 2 b T 2 ` 7 2 + i B Q M M 2 K
" 7 2 m b ö û i 2 M / 2 M i b b 2 x H Q B M T Q m ` H ` 2
2 M û i # H B b b 2 K 2 M i 2 i 2 M + Q K # m b i B # H 2 - 2
[m H B i û b / û b B ` # H 2 b - 2 i 7 2 ` T ` 2 M / ` 2 m t
2 b b Q ` / Q M i B H b 2 ` B i / B { + B H 2 / 2 T ` û p Q B `

LQM b2mH2K2Mi- 2M 2z2i- mM KQi2m` TmE
 KQ/2- [m2 HöQM T2mi b2 T`Q+m`2` Qmi` MbT
 bm#biBim2 mt KQi2m`b/ûD` 2M mb ;2`c K Bb
 mt `ib QM QM Hö TTHB[m2 mM2 2ti2MbBQM
 K K2 +`û2` /2b `ib 2MiB `2K2Mi MQmp2 mtX

G2 b2`pB+2 H2 THmb bB;M Hû [m2 H K +
 `2M/m ` Hö M;H2i2``2 2bi b Mb +QMi`2/Bi /
 Hö2tTHQB iBQM /2 b2b KBM2b /2 ?QmBHH2- /
 2i [mB K2M Ĩ Bi /2 böûi2BM/`2 2MiB `2K2Mi
 H /B{+mHiû iQmDQm`b +`QBbb Mi2 /2b ûTr
 Hö2ti` +iBQM /m ~~RXPM T2mi {`K2`~~ ~~RXPM T2mi {`K2`~~ 2i`2 bm` H2 b2+
 ` M; H2b b2`pB+2b `2M/mb `H 7 #`B+ iBQM /
 ?QmBHH2- Qz2`i2 p2+ #QM/ M+2 2i bm#biB
 KQK2Mi QM +2mt@+B +QKK2Mĭ B2Mi ` böûTm
 K +?BM2b TmBbb Mi2b /2 iQmi2b 2bT +2b /Q
 K +?BM2 `72m T2`KBb Qm 7 +HBBiû Hömb ;

G2 72` 2i H2 72m bQMi- +QKK2 QM b Bi- H2
 bQmiB2Mb /2b `ib Kû+ MB[m2bX AH Mö2tBbi
 M;H2i2``2 mM ûi #HBbb2K2Mi /öBM/mbi`B2
 M2 bQBi 7QM/û2 bm` Hömb ;2 /2 +2b ;2Mib
 2KTHQB2 p2+ T`Q7mbBQMX 1MH2p2` mDQm

~~RXPM~~ T2mi {`K2` [m2 Hö2ti` +iBQM /2 H ?QmBHH2
 M;H2i2``2 /2TmBb HöBMp2MiBQM /2b K +?BM2b `72
 T`ûb /2 K K2 /2 Hö2ti` +iBQM /m +mBp`2- /2 Höûi BM 2
 T`Q/mBi BH v mM /2KB@bB +H2 T` H K +?BM2 `7
 /ö M;H2i2``2 b2`ûT i2 mDQm`/ö?mB bm` H2b KBM2b /
 MQmp2 m KQM/2- KBM2b /QMi Hö2tTHQB iBQM /û+HB
 T`BM+BT H2K2Mi ` + mb2 /2 HöBMbm{b M+2 /2b KQi2
 ûTmBb2K2Mib 2i ` Hö2ti` +iBQM /2b KBM2` BbX

b 2 b K + ? B M 2 b " p T 2 m ` - + 2 b 2 ` B i H m B - i 2
 2 i H 2 7 2 ` ~ c + 2 b 2 ` B i i ` B ` i Q m i 2 b b 2 b b Q
 ` m B M 2 ` i Q m b b 2 b K Q v 2 M b / 2 T ` Q b T û ` B i û ~
 + 2 i i 2 T m B b b M + 2 + Q H Q b b H 2 X G / 2 b i ` m
 [m ö 2 H H 2 ` 2 ; ` / 2 + Q K K 2 b Q M T H m b 7 2 ` K 2
 T 2 m i @ i ` 2 K Q B M b 7 m M 2 b i 2 X

G M p B ; i B Q M b ? ` 2 2 i ` T B / 2 / 2 b # • i B K
 T 2 m i i ` 2 ` 2 ; ` / û 2 + Q K K 2 m M ` i 2 M i B ` 2 K 2
 m t K + ? B M 2 b " 7 2 m X . û D " + 2 i ` i T 2 ` K B b
 / 2 + Q K K m M B + i B Q M b T ` Q K T i 2 b 2 i ` û ; m H
 / 2 K 2 ` - b m ` H 2 b ; ` M / b ~ 2 m p 2 b / 2 H ö M + B
 + Q M i B M 2 M i X A H T 2 ` K B b / 2 T ` + Q m ` B ` ,
 b m p ; 2 b - Q M M ; m ` 2 Q M T Q m p B i " T 2 B
 T 2 ` K B b / 2 T Q ` i 2 ` H 2 b 7 ` m B i b / 2 H + B p
 T Q B M i b / m ; H Q # 2 Q M B H b 2 m b b 2 M i û i û i i 2
 M M û 2 b X G M p B ; i B Q M / m 2 m t K + ? B M 2
 2 M [m 2 H [m 2 b Q ` i 2 H 2 b m M 2 b / 2 b m i ` 2 b H
 H Q B M i B M 2 b X 1 H H 2 i 2 M / " ` û m M B ` 2 M i ` 2
 H i 2 ` ` 2 + Q K K 2 b ö B H b ? # B i B 2 M i i Q m b m
 . B K B M m 2 ` 2 M 2 z 2 i H 2 i 2 K T b - H 2 b 7 i B ; m 2 b
 H 2 b / M ; 2 ` b / 2 b p Q v ; 2 b - M ö 2 b i @ + 2 T b #
 / B b i M + 2 b

k X L Q m b / B b Q M b / B K B M m 2 ` H 2 b / M ; 2 ` b / 2 b p Q v ; 2 b
 H ö 2 K T H Q B / 2 H K + ? B M 2 " 7 2 m b m ` m M M p B ` 2 Q
 [m 2 H ö Q M b ö 2 b i # 2 m + Q m T 2 t ; û ` û b - B H b b Q M i + Q
 H 7 + m H i û / 2 b 2 i 2 M B ` i Q m D Q m ` b b m ` m M 2 ` Q m i 2
 / 2 ` û b B b i 2 ` " H ö 2 z Q ` i / 2 b p 2 M i b H Q ` b [m ö B H b T Q m b
 + - i 2 b - + Q M i ` 2 H 2 b # b @ 7 Q M / b Q m + Q M i ` 2 H 2 b û + n

G /û+Qmp2`i2 /2b K +?BM2b " 72m /?-
 THmT `i /2b Bmp2MiBQMb ?mK BM2b- b M Bb
 T`2b[m2 BM7Q`K2b- 2bb Bb [mB QMi ûiû ii`
 T2`bQMM2b 2i /QMi QM M2 +QMM Wi T b #B
 mi2m`X *ö2bi m`2bi2 KQBMb / Mb +2b T`2K
 +QMbBbi2 H T`BM+BT H2 /û+Qmp2`i2- [m2 /
 M2K2Mib bm++2bbB7b [mB QMi K2Mû H2b K
 Höûi i QM MQmb H2b pQvQM b mDQm`/ö?mB
 mi Mi /2 /Bbi M+2 2Mi`2 H2b T`2KB2`b TT`
 /ûp2HQTtû H 7Q`+2 2tT MbBp2 /2 H p T2m`
 +im2HH2b- [mö2Mi`2 H2 T`2KB2` /2 m [m2 H
 7Q`Kû 2i H2 p Bbb2 m /2 ? mi #Q`/X

aB Hö?QMM2m`/ömM2 /û+Qmp2`i2 TT`iB2
 2HH2 +[mBb iQmi bQM ++`QBbb2K2Mi- iQ
 K2Mib- +2i?QMM2m` M2 T2mi i`2 B+B`27mbû
 a p2`v- L2r+QK2M- aK2 i?QM- H2 +ûH #`2 q
 h`2p2iB+F 2i [m2H[m2b mi`2b BM;ûMB2m`b
 pû`Bi #H2b +`û i2m`b /2 H K +?BM2 " 72m`
 2Mi`2 H2m`b K BMb iQmb b2b /2;`ûb bm++2bb
 M2K2MiX AH 2bi M im`2H- m`2bi2- [mömM2
 M Bbb M+2 2i bm`iQmi b2 /ûp2HQTt2- b2 T2`
 #2bQBM bö2M 7 Bi H2 THmb BKTû`B2mb2K2M

J H;`û H2b i` p mt /2 iQmb ;2M`2b 2Mi`2T
 K +?BM2b " 72m- K H;`û Höûi i b iBb7 Bb M
 mDQm`/ö?mB T`p2Mm2b- H2m`i?ûQ`B2 2bi
 H2b 2bb Bb /ö KûHBQ` iBQM i2Miûb bm`2HH2
 T`2b[m2 m ? b`/X

e a /B * `MQiX_R320BQM b b m` H T m B b b M +2 K Q

G ö Q M b Q m p 2 M i ; B i û H [m 2 b i B Q M / 2
b M +2 K Q / 2 B H +2 +? H 2 m` 2 b i H B K B i û 2 - Q m b
Q` M 2 b ~ c b B H 2 b T 2` 7 2 + i B Q M M 2 K 2 M i b T
" 7 2 m Q M i m M i 2` K 2 b b B ; M # H 2 - i 2` K 2 [n
+ ? Q b 2 b 2 K T + ? 2 / 2 / û T b b 2` T` [m 2 H [m 2 K
Q m b B m + Q M i` B` 2 + 2 b T 2` 7 2 + i B Q M M 2 K 2
/ ö m M 2 2 t i 2 M b B Q M B M / û } M B 2 X G ö Q M m b
2 i H ö Q M + ? 2` + ? 2 2 M + Q` 2 m D Q m` / ö ? m B - b
; 2 M i b T` û 7 û` # H 2 b " H p T 2 m` / ö 2 m T Q m
T 2 m` K Q i` B + 2 / m 7 2 m ~ c b B H ö B` i K Q b T ? 0
M 2 T` û b 2 M i 2` B i T b - " + 2 i û ; ` / - / 2 ; ` M / b
M Q m b T` Q T Q b Q M b / 2 b Q m K 2 i i` 2 B + B + 2 b [r
` û ~ û + ? B X

G 2 T ? û M Q K M 2 / 2 H T` Q / m + i B Q M / m K Q
+ ? H 2 m` M ö T b û i û + Q M b B / û` û b Q m b m M
; û M û` H X P M H ö + Q M b B / û` û b 2 m H 2 K 2 M i
/ Q M i H M i m` 2 2 i H 2 K Q / 2 / ö + i B Q M M 2 H m
/ 2 T` 2 M /` 2 i Q m i 2 H ö û i 2 M / m 2 / Q M i B H 2 b i b
T` 2 B H H 2 b K + ? B M 2 b H 2 T ? û M Q K M 2 b 2 i` C
i` Q M [m û - B M + Q K T H 2 i ~ c B H / 2 p B 2 M i / B { + B
T` B M + B T 2 b 2 i / ö û i m / B 2` b 2 b H Q B b X

S Q m` 2 M p B b ; 2` / M b i Q m i 2 b ; û M û` H B
H T` Q / m + i B Q M / m K Q m p 2 K 2 M i T` H + ?
+ Q M + 2 p Q B` B M / û T 2 M / K K 2 M i / ö m + m M K 0

j X L Q m b M Q m b b 2` p Q M b B + B / 2 H ö 2 t T` 2 b b B Q M T r
/ û b B ; M 2` H ö 2 z 2 i m i B H 2 [m ö m M K Q i 2 m` 2 b i + T # H 2
T 2 m i i Q m D Q m` b i` 2 b b B K B H û " H ö û H û p i B Q M / ö r
? m i 2 m` ~ c B H - + Q K K 2 Q M b B i - T Q m` K 2 b m` 2 H
K m H i B T H B û T` H ? m i 2 m` / Q M i B H 2 b i + 2 M b û û H 2

;2Mi T `iB+mHB2`~c BH 7 mi ûi #HB` /2b ` E
 THB+ #H2b- MQM b2mH2K2Mi ⁹mK KBb?BM2b
 iQmi2 K +?BM2 " 72m BK ;BM #H2- [m2HH2 [
 bi M+2 KBb2 2M ¾mp`2 2i [m2HH2 [m2 bQBi H
 QM ;Bbb2 bm` 2HH2X

G2b K +?BM2b [mB M2 `2İQBp2Mi T b H2m`
 H +? H2m`- +2HH2b [mB QMi TQm` KQi2m` H
 Qm /2b MBK mt- mM2 +?mi2 /ö2 m- mM +Qm`
 T2mp2Mi i`2 ûim/Bû2b Dmb[m2 / Mb H2m`b k
 T `H i?ûQ`B2 Kû+ MB[m2X hQmb H2b + b bQM
 KQmp2K2Mib BK ;BM #H2b bQMi bQmKBb " /2
 Mû` mt bQHB/2K2Mi ûi #HBb 2i TTHB+ #H2b
 i M+2X *ö2bi H" H2 + ` +i `2 /ömM2 i?ûQ`B2
 b2K#H #H2 i?ûQ`B2 K M[m2 ûpB/2KK2Mi TQm
 " 72mX PM M2 H TQbbû/2` [m2 HQ`b[m2 H2b
 bB[m2 b2`QMi bb2x ûi2M/m2b- bb2x ;ûMû` H
 +QMM Wi`2 " Hö p M+2 iQmb H2b 2z2ib /2 H
 /ömM2 K MB `2 /ûi2`KBMû2 bm` mM +Q`Tb [m

LQmb bmTTQb2`QMb / Mb +2 [mB p bmBp`
 b M+2 m KQBMb bmT2`}+B2HH2 /2b /Bp2`b2
 TQb2Mi mM2 K +?BM2 " p T2m` Q`/BM B`2X B
 BMmiBH2 /ö2tTHB[m2` +2 [m2 +ö2bi [m2 7Qv
 HBM/`2 " p T2m`- TBbiQM- +QM/2Mb2m`- 2i+)

⁹XLQmb /BbiBM;mQMb B+B H K +?BM2 " p T2m` /2 H
 2M ;ûMû` H~, +2HH2@+B T2mi 7 B`2 mb ;2 /ömM ;2M
 p T2m` /ö2 m Qm /2 iQmi mi`2- TQm` `û HBb2` H TmB
 H +? H2m`X

G T`Q/m+iBQM /m KQmp2K2Mi / Mb H
 p T2m` 2bi iQmDQm`b ++QKT ;Mû2 /ömM
 H [m2HH2 MQmb /2pQM b }t2` Hö ii2MiBQM
 2bi H2`ûi #HBbb2K2Mi /öû[mBHB#`2 / Mb
 /B`2 bQM T b b ;2 /ömM +Q`Tb QM H i2KTû
 KQBMb ûH2pû2 " mM mi`2 QM 2HH2 2bi TH
 i@BH 2M 2z2i / Mb m M2 K +?BM2 " p T2m
 +iBpBiû~\ G2 + HQ`B[m2- /ûp2HQTTû / M
 /2 H +QK#mbiBQM- i` p2`b2 H2b T `QBb /2
 /QMM2` M B b b M + 2 " /2 H p T2m`- böv BM
 bQ`i2X *2HH2@+B- Hö2Mi` WM Mi p2+ 2H
 H2 +vHBM/`2- QM 2HH2`2KTHBi m M Q{+2
 / Mb H2 +QM/2Mb2m`- QM 2HH2 b2 HB[mû
 Hö2 m 7`QB/2 [mB böv`2M+QMi`2X Gö2 m
 bö2KT`2 /QM+ 2M /2`MB2``ûbmHi i /m +
 T`H +QK#mbiBQMX 1HH2 böû+? mz2 T
 H p T2m`- +QKK2 bB 2HH2 2?i ûiû TH +û
 H2 7Qv2`X G p T2m` Mö2bi B+B [mömM K
 H2 + HQ`B[m2~c 2HH2`2KTHBi H2 K K2
 +? mz ;2 /2b # BMb T`H p T2m`- " Hö2t+
 H2 + b QM MQmb bQKK2b bQM KQmp2K2Mi
 GöQM`2+QMM Wi7 +BH2K2Mi- / Mb H2b
 p2MQMb /2 /û+`B`2- H2`ûi #HBbb2K2Mi
 + HQ`B[m2- bQM T b b ;2 /ömM +Q`Tb THm
 " m M +Q`Tb THmb 7`QB/X G2 T`2KB2` /2 +
 #`?Hû /m 7Qv2`- H2 b2+QM/ 2bi Hö2 m /2
 `ûi #HBbb2K2Mi /öû[mBHB#`2 /m + HQ`B[
 bB +2 Mö2bi +QKTH i2K2Mi- /m KQBMb 2M
 T`i- Hö B` #`?Hû- T`b pQB``2KTHB bQ

2Mp2HQTtû H +? m/B`2- böû+? TT2 T`H
 mM2i2KTû`im`2#B2MKQBM/`2[m2+2HH2[r
 T`Hö2z2i/2H+QK#mbiBQM~c2i-/ömi`2
 +QM/2Mb2m`-T`b pQB`HB[mû}ûH pT2m`
 K+?BM2 p2+mM2i2KTû`im`2bmTû`B2m`2
 pBiTTQ`iû2X

G T`Q/m+iBQM/2H TmBbb M+2KQi`B+2
 /MbH2bK+?BM2b`pT2m`-MQM`mM2+QM
 /m+HQ`B[B2- bQM i`MbTQ`i/ömm+Q`Tb+?
 +Q`Tb7+Q2/bi@`@/B`2`bQM`ûi#HBbb2K2M
 û[mBHB#`2bmTTQbû`QKTmT`[m2H[m2+m
 mM2+iBQM+?BKB[m2-i2HH2[m2H+QK#mb
 mi`2XLQmbp2``QMb#B2Mi-i[m2+2T`BM+E
 `iQmi2K+?BM2Kbb22MKQmp2K2MiT`H`
 .öT`b+2T`BM+BT2-BH M2bm{iTb-TQm
 bM+2`H TmBbb M+2KQi`B+2-/2T`Q/mB`2
 BH7mi2M+Q`2b2T`Q+m`2`/m7`QB/~c bM
 b2`BiBMmiBH2X1i2M2z2i-bBHöQM M2`2M
 bQB[m2/2b+Q`Tb mbbB+?m/b[m2MQb7
 T`pB2M/`Bi@QM`+QM/2Mb2`H pT2m`~\C
 QM mM27QBb[mö2HH2 m`BiT`BbM BbbM
 T b+`QB`2[m2HöQM T?i- BMbB[m2+2H b
 +2`iBM2bK⁸-+?BM2b2i2`/MbHöiKQbT?`2~
 KQbT?`2M2H`2+2p`BiTbXAHM2H`2i

8X*2`iBM2bK+?BM2b`?mi2T`2bbbBQM`2D2ii2MiH
 HöiKQbT?`2- mHB2m/2H+QM/2Mb2`~,QM H2b2K
 K2Mi/MbH2bHB2mtQM BHb2`Bi/B{+BH2/2b2T`C
 /ö m7`QB/2bm{bMiTQm`QTû`2`H+QM/2Mb iBQM

Ry a /B * `MQiXÖ-2k8X Mb bm` H TmBbb M+2 KQ

+im2H /2b +?Qb2b- [m2 T `+2 [möBH`2KT
/ömM p bi2 +QM/2Mb2m`- T `+2 [möBH b2 i
` im`2 THmb 7`QB/2~, mi`2K2Mi BH 2M b2
Qm THmi-i BH 2M b2` B^eiX/ö p M+2 b im`û
S `iQmi QM BH 2tBbi2 mM2 /Bzû`2M+2
T `iQmi QM BH T2mi v pQB` `ûi #HBbb2K
+ HQ`B[m2- BH T2mi v pQB` mbbB T`Q/r
KQi`B+2X G p T2m` /ö2 m 2bi mM KQv2M
TmBbb M+2- K Bb 2HH2 Mö2bi T b H2 b2m
H M im`2 T2mp2Mi i`2 2KTHQvûb ``+2i m
bmb+2TiB#H2b /2 +? M;2K2Mib /2 pQHmK2
/2 /BH i iBQM b bm++2bbBp2b T` /2b Hi2
2i /2 7`QB/~c iQmb bQMi + T #H2b /2 p B
+? M;2K2Mib /2 pQHmK2- +2`i BM2b `ûbB
p2HQT T2` BMbB H TmBbb M+2 KQi`B+2X

eXGö2tBbi2M+2 /2 Hö2 m ``Höûi i HB[mB/2- /KBb
TmBb[m2 b Mb 2HH2 H2b K +?BM2b ``p T2m` M2 TQr
bmTTQb2 Hö2tBbi2M+2 /ömM2 T`2bbBQM + T #H2
b2 p TQ`Bb2`- T `+QM bû[m2Mi /ömM2 T`2bbBQM
H i2MbBQM /2 H p T2m`- 2m û; ``/ ``H i2KTû` im`
T`2bbBQM Möûi Bi T b 2t2`+û2 T` Hö B` iKQbT?
``HöBMbi Mi mM2 [m MiBiû /2 p T2m` /ö2 m bm{b
bm` 2HH2@K K2- 2i BH 7 m/` Bi iQmDQm`b bm`KQ
`2D2i2` H p T2m` /2b K +?BM2b / Mb H MQmp2HH
û[mBp m/` Bi ûpB/2KK2Mi ``bm`KQMi2` H i2MbBQM
T` b b +QM/2Mb iBQM 2z2+imû2 T` H2b KQv2Mb
aB mM2 i2KTû` im`2 i` b@ûH2pû2`û;M Bi ``H bm
+QKK2 BH M2 T` Wi T b /Qmi2mt [mö2HH2 `;M2
iQmi2b H2b 2 mt/2 HöP+û M 2tBbi2` B2Mi2M p T2
2i BH M2 bö2M`2M+QMi`2` Bi m+mM2 TQ`iBQM ``H

``2 Kûi HHB[m2- T ` 2t2KTH2- Hi2`M iBp2
 2i `27`QB/B2- m;K2Mi2 2i /BKBMm2 /2 HQM
 KQmpQB` /2b +Q`Tb }tûb " b2b 2ti`ûKBiûbX I
 i2`M iBp2K2Mi +? mzû 2i `27`QB/B m;K2Mi2
 pQHmK2 2i T2mi p BM+`2 /2b Q#bi +H2b THmb
 QTTQbûb " b /BH i iBQMX IM ~mB/2 û`B7Q`K
 /2 +? M;2K2Mib +QMbB/û` #H2b /2 pQHmK2 T
 /2 i2KTû` im`2~ , böBH 2bi `2M72`Kû / Mb mM
 i2MbB#H2- i2HH2 [mömM +vHBM/`2 KmMB /öm
 /2b KQmp2K2Mib /ömM2 ;` M/2 ûi2M/m2X G2
 iQmb H2b +Q`Tb bmb+2TiB#H2b /2 T bb2` " H
 Hö H+QQH- /m K2`+m`2- /m bQm7`2- 2i+X- TC
 K K2 Q{+2 [m2 H p T2m` /ö2 mX *2HH2@+B-
 +? mzû2 2i `27`QB/B2- T`Q/mB` Bi /2 H TmB
 H K MB `2 /2b ; x T2`K M2Mib- +ö2bi@ " @/B
 `2iQm`M2` " Höûi i HB[mB/2X G THmT `i /2 -
 ûiû T`QTQbûb- THmbB2m`b K K2 QMi ûiû 2bb
 bQBi Dmb[möB+B b Mb bm++ b`2K `[m #H2X
 LQmb pQMb 7 BipQB` [m2- / Mb H2b K +?B
 TmBbb M+2 KQi`B+2 2bi /m2 " mM`ûi #HBbb2
 / Mb H2 + HQ`B[m2~ , +2H HB2m- MQM b2i
 K +?BM2b " p T2m`- K Bb mbbB TQm` iQmi2
 +ö2bi@ " @/B`2 TQm` iQmi2 K +?BM2 /QMi H2
 KQi2m`X G +? H2m` M2 T2mi ûpB/2KK2Mi i
 /2 KQmp2K2Mi [mö2M p2`im /2b +? M;2K2Mib
 /2 7Q`K2 [mö2HH2 7 Bi bm#B` mt +Q`Tb~c +
 M2 bQMi T b /mb " mM2 +QMbi M+2 /2 i2KTû
 #B2M " /2b Hi2`M iBp2b /2 +? H2m` 2i /2 7`G
 û+? mz2` mM2 bm#bi M+2 [m2H+QM[m2- BH 7

Rk a /B * `MQiXÜ-2k8X Mb bm` H TmBbb M+2 KQ

+? m/[mö2HH2~cTQm`H `27`QB/B`-BH7
PM T`2M/ Mû+2bb B`2K2Mi /m + HQ`B[m2
+Q`Tb TQm`H2 i` MbK2ii`2 m b2+QM/ T
bm#bi M+2 BMi2`Kû/B B`2X *ö2bi H" `ûi
i` p BHH2` " `ûi #HB`- Höû[mBHB#`2 /m +
AH 2bi M im`2H /2 b2 7 B`2 B+B +2ii2 [m
`B2mb2 2iBKTQ`i Mi2~, G TmBbb M+2 KQ
2bi@2HH2 BKKm #H2 2M [m MiBiû- Qm p`
/QMi QM 7 Bi mb ;2 TQm`H `û HBb2` p2+
Kû/B B`2- +?QBbB2 +QKK2 bmd2i /ö +iBQ
AH 2bi +H B` [m2 +2ii2 [m2biBQM M2 T
TQm`mM2 [m MiBiû /2+^dHQ`Bp2`/QMMû2
i2KTû` im`2b ûi Mi û; H2K2Mi /QMMû2X G
2t2KTH2- /ömm +Q`Tb - K BMi2Mm " H i2
2i /ömm mi`2 +Q`Tb "- K BMi2Mm " H i2KTû
/2K M/2 [m2HH2 [m MiBiû /2 TmBbb M+2 K
T`H2 i` MbTQ`i /ömm2 TQ`iBQM /QMMû2
2t2KTH2 +2HH2 [mB 2bi Mû+2bb B`2 TQm`
/2 ;H +2V /m T`2KB2` /2 +2b +Q`Tb m b2+C
bB +2ii2 [m MiBiû /2 TmBbb M+2 KQi`B+2
HBKBiû2- bB 2HH2 p`B2 p2+ H bm#bi
`û HBb2`- bB H p T2m` /ö2 m Qz`2 " +2i û;

^dXLQmb Dm;2QM b BMmiBH2 /ö2tTHB[m2`B+B +2 [
+ HQ`B[m2 Qm [m MiBiû /2 +? H2m`U+ `MQmb 2KT
H2b /2mt 2tT`2bbBQM bV- MB /2 /û+`B`2 +QKK2Mi Q
T`H2 + HQ`BK i`2X LQmb Mö2tTHB[m2`QM b T b
[m2 +? H2m`H i2Mi2- /2;`û /2 i2KTû` im`2- +? H2m
H2 H2+i2m` /QBi i`2 7 KBHB `Bbû p2+ +2b 2tT`2
i` Biûb ûHûK2Mi B`2b /2 T?vbB[m2 Qm /2 +?BKB2X

/ö p Mi ;2 [m2 H p T2m` /ö H+QQH- /2 K2`+m
 T2`K M2Mi Qm [m2 iQmi2 mi`2 bm#bi M+2X
 LQmb 2bb B2`QMb /2 `ûbQm/`2 +2b [m2biE
 mb ;2 /2b MQiBQMb T`û+û/2KK2Mi ûi #HB2bX
 GöQM `2K `[mû THmb ? mi +2 7 Bi ûpB/2
 K K2- Qm [mB /m KQBMb /2pB2Mi b2MbB#H
 `û~û+?Bi mt +? M;2K2Mib /2 pQHmK2 Q++ b
 +? H2mS`~iQmi QM BH 2tBbi2 mM2 /Bzû`2M+2
 `im`2- BH T2mi v pQB` T`Q/m+iBQM /2 TmE
 _û+BT`Q[m2K2Mi T`iQmi QM HöQM T2mi +QM
 TmBbb M+2- BH 2bi TQbbB#H2 /2 7 B`2 M W
 /2 i2KTû` im`2- BH 2bi TQbbB#H2 /öQ++ bBQ
 /öû[mBHB#`2 / Mb H2 + HQ`B[m2X G T2`+mb
 /2b +Q`Tb M2 bQMi@BHb T b 2M 2z2i /2b K
 H2m` i2KTû` im`2- /2 H 7 B`2 ``Bp2` bTQM
 /2;`û THmb ? mi [m2 +2HmB /2b +Q`Tb 2MpB`
 +QMbû[m2Mi /2 T`Q/mB`2 mM2 `mTim`2 /öû[
 + HQ`B[m2- H`QM 2tBbi Bi mT` p Mi +2i û[
 mM 7 Bi /ö2tTû`B2M+2 [m2 H i2KTû` im`2 /2b
 böûH p2 T` H +QKT`2bbBQM 2i bö # Bbb2 T
 oQBH` mM KQv2M +2`i BM /2 +? M;2` H i2K
 +Q`Tb 2i /2 `QKT`2 Höû[mBHB#`2 /m + HQ`B[
 [möQM H2 pQm/` p2+ H K K2 bm#bi M+2X G
 2KTHQvû2 /ömM2 K MB `2 BMp2`b2 /2 +2HH2
 / Mb H2b K +?BM2b ` p T2m`- T2mi mbbB
 +QKK2 mM KQv2M /2 `QKT`2 Höû[mBHB#`2 /m
 bö2M +QMp BM+`2- BH bm{i /2 `û~û+?B` ii2M
 MB `2 /QMi b2 /ûp2HQT2 H TmBbb M+2 KQi
 /2 b +? H2m` bm` H p T2m` /ö2 mX *QM+2pC

2i " 2Mi`2i2Mmb +? +mM " mM2 i2KTû` i
 +2HH2 /2 ûi Mi THmb ûH2pû2 [m2 +2HH2
 +Q`Tb- mt[m2Hb QM T2mi /QMM2` Qm 2M
 b Mb 7 B`2 p `B2` H2m` i2KTû` im`2- 72`G
 /2mt`ûb2`pQB`b BM/û}MBb /2 + HQ`B[m2X
 T`2KB2` 7Qv2` 2i H2 b2+QM/`û7`B;û` MiX

aB HöQM p2mi /QMM2` M Bbb M+2 " /2 H
 T ` H2 i` MbTQ`i /ömm2 +2`i BM2 [m MiB
 +Q`Tb m +Q`Tb "- HöQM TQm`` T`Q+û/
 bmBp Mi2~ ,

RđKT`mMi2` /m + HQ`B[m2 m +Q`Tb T
 /2 H p T2m`- +ö2bi@"@/B`2 7 B`2 `2KT
 7QM+iBQMb /m 7Qv2`- Qm THmi-i /m
 H +? m/B `2- / Mb H2b K +?BM2b Q`/B
 bmTTQb2`QMb B+B [m2 H p T2m` T`2M
 i2KTû` im`2 K K2 /m +Q`Tb X

kêG p T2m` v Miûiû`2İm2 / Mb mM2 + T +
 i2HH2 [mömM +vHBM/`2 KmMB /ömm TBb
 HmK2 /2 +2ii2 + T +Biû 2i T ` +QMbû[m2
 H p T2m`X BMbB ` `û}û2- 2HH2 /2b+2M
 /2 i2KTû` im`2- +QKK2+2H ``Bp2 TQm`
 ûH biB[m2b~ , /K2iiQMb [m2 H ` `û7 +i
 Dmb[mö m TQB Mi QM H i2KTû` im`2 /2p
 +2HH2 /m +Q`Tb "X

jê*QM/2Mb2` H p T2m` 2M H K2ii Mi 2M -
 +Q`Tb "- 2i 2M 2t2`İ Mi 2M K K2 i2KTb
 T`2bbbBQM +QMbi Mi2- Dmb[mö" +2 [mö2
 HB[mû}û2X G2 +Q`Tb " `2KTHBi B+B H2`
 iBQM / Mb H2b K +?BM2b Q`/BM B`2b- p

[möBH +QM/2Mb2 H p T2m` b Mb b2 K H2`
 +? M;2` HmB@K K2 /2X2KTû` im`2
 G2b QTû` iBQMb [m2 MQmb p2MQMb /2 /û+`
 i`2 7 Bi2b / Mb mM b2Mb 2i / Mb mM Q`/`2 B
 Mö2KT +? Bi /2 7Q`K2` /2 H p T2m` p2+ H2
 +Q`Tb "- 2i " H i2KTû` im`2 /2 +2 +Q`Tb- /2 H
 /2 K MB `2 " HmB 7 B`2 +[mû`B` H i2KTû` i
 - 2M}M /2 H +QM/2Mb2` T ` bQM +QM i +i p

3XPM böûiQMM2` T2mi@ i`2 B+B [m2 H2 +Q`Tb " b2 i`C
 i2KTû` im`2 [m2 H p T2m` TmBbb2 H +QM/2Mb2`~, I
 Mö2bi T b`B;Qm`2mb2K2Mi TQbbB#H2`c K Bb H THm
 i2KTû` im`2 /ûi2`KBM2` H +QM/2Mb iBQM- +2 [mB br
 H Dmbi2bb2 /2 MQi`2` BbQMM2K2MiX *ö2bi BMbB [
 /Bzû`2MiB2H- BH bm{i [m2 HöQM TmBbb2 +QM+2pQB`
 BM/û}MBK2Mi`û/m+iB#H2b T `` TTQ`i mt[m MiBiûb
 H2b û[m iBQMb- TQm` +[mû`B` H +2`iBim/2 /m`ûbmH
 G2 +Q`Tb " +QM/2Mb2 H p T2m` b Mb +? M;2` HmB
 Tû` im`2~, +2H `ûbmHi2 /2 MQi`2 bmTTQbBiBQMX LQ
 +2 +Q`Tb ûi Bi K BMi2Mm " mM2 i2KTû` im`2 +QMbi Mi
 H2 + HQ`B[m2 " K2bm`2 [m2 H p T2m` H2 HmB 7Qm`M
 i`Qmp2 H2 Kûi H /m +QM/2Mb2m` HQ`b[m2 Đ H °

Re a /B * `MQiXûR-2kBX Mb bm` H TmBbb M+2 KQ

+Q`Tb- 2i +2H 2M +QM iBMm Mi H +QKT`
HB[mû7 +iBQM +QKTH i2X

S `MQb T`2KB `2b QTû` iBQMb- BH v
T`Q/m+iBQM /2 TmBbb M+2 KQi`B+2 2i i` M
/m +Q`Tb m +Q`Tb " ~c T `H2b QTû` iB
v " H 7QBb /ûT2Mb2 /2 TmBbb M+2 KQi
+ HQ`B[m2 /m +Q`Tb " m +Q`Tb X J Bb bB
2i /ö mi`2 bm` H K K2 [m MiBiû /2 p T2m
7 Bi m+mM2 T2`i2 MB /2 TmBbb M+2 KQi`
H [m MiBiû /2 TmBbb M+2 KQi`B+2 T`Q/m
+ b b2` û; H2 " +2HH2 [mB m` ûiû /ûT2Mb
2i H [m MiBiû /2 + HQ`B[m2 T bbû2- / Mb
+Q`Tb m +Q`Tb " b2` û; H2 " H [m MiB
/ Mb H2 b2+QM/- /m +Q`Tb " m +Q`Tb -
TQm`` Bi7 B`2 mM MQK#`2 BM/û}MB /öQT
/2 +2 ;2M`2 b Mb [möBH v 2?i2M bQKK2 MB
T`Q/mBi2- MB + HQ`B[m2 T bbû /ömM +Q`

P`- böBH 2tBbi Bi /2b KQv2Mb /ö2KTH
T`û7û` #H2b " +2mt /QM iMQmb pQMb 7
/B`2 böBH ûi Bi TQbbB#H2- T ` [m2H[m2
/2 7 B`2 T`Q/mB`2 m + HQ`B[m2 mM2 [m
KQi`B+2 THmb ;` M/2 [m2 MQmb M2 Hö p
T`2KB `2 bû`B2 /öQTû` iBQMb- BH bm{`
TQ`iBQM /2 +2ii2 TmBbb M+2 TQm` 7 B`2
Kûi?Q/2 [mB pB2Mi /ö i`2 BM/B[mû2- H2 +
" m +Q`Tb - /m `û7`B;û` Mi m 7Qv2`- TC
+?Qb2b / Mb H2m` ûi i T`BKBiB7 2i b2 K2ii`
/2 `2+QKK2M+2` mM2 QTû` iBQM 2MiB `2K
T`2KB `2 2i BMbB /2 bmBi2~ , +2 b2` Bi H

H2 KQmp2K2Mi T2`Tûim2H- K Bb mM2 +`û iB
 7Q`+2 KQi`B+2 b Mb +QMbQKK iBQM MB /2
 [m2H[m2 mi`2 ;2Mi [m2 +2 bQBiX IM2 b2K#H
 2bi iQmi@`"@7 Bi +QMi` B`2 mt B/û2b`2İm2H
 mt HQBb /2 H Kû+ MB[m2 2i /2 H b BM2 T?
 2bi BM /K Bb B#H2Bi /QM+ +QM+H H B B K2

NXPM Q#D2+i2` T2mi@ i`2 B+B [m2 H2 KQmp2K2Mi
 KQMi`û BKTQbbB#H2 T` H2b b2mH2b +iBQMb Kû+ M
 i`2 T b HQ`b[möQM 2KTHQB2 HöBM~m2M+2 bQBi /2
 HöûH2+i`B+Biû`c K Bb T2mi@QM +QM+2pQB` H2b T?
 2i /2 HöûH2+i`B+Biû +QKK2 /mb " mi`2 +?Qb2 [mö" /
 [m2H+QM[m2b /2 +Q`Tb- 2i +QKK2 i2Hb M2 /QBp2Mi@
 mt HQBb;ûMû` H2b /2 H Kû+ MB[m2`L T Q B @ QM T
 i2`B Qm2 iQmi2b H2b i2Mi iBp2b 7 Bi2b TQm` T`Q/mB`
 T2`Tûim2H T` [m2H[m2 KQv2M [m2 +2 bQBi QMi ûiû BM
 HöQM Mő2bi D K Bb T`p2Mm " T`Q/mB`2 mM KQmp2K
 T2`Tûim2H- +ő2bi@`"@/B`2 mM KQmp2K2Mi [mB b2 +QM
 Hiû` iBQM / Mb H2b +Q`Tb KBb 2M ¾mp`2 TQm` H2`û
 GöQM `2;`/û [m2H[m27QBb Hö TT`2BH ûH2+i`QH
 oQHi V +QKK2 + T #H2 /2 T`Q/mB`2 H2 KQmp2K2Mi T
 +?2`+?û " `û HBb2` +2i2 B/û2 2M +QMbi`mBb Mi /
 T`ûi2M/m2b BM Hiû` #H2bX J Bb- [mQB [m2 HöQM Bi
 iQmDQm`b ûT`Qmpû /2b /ûiû`BQ` iBQMb b2MbB#H2b
 ûiû bQmi2Mm2 T2M/ Mi mM +2`i BMi2KTb p2+ [m2H[m
 Gö ++2TiBQM ;ûMû` H2 2i T?B K Q m p 2 K B M i 2 2 2 K Q i
 Tûim2H Bi +QKT`2M/`2- MQM T b b2mH2K2Mi mM KQmp
 iB#H2 /2 b2 T`QHQM;2` BM/û}MBK2Mi T` b mM2 T`2
 `2İm2- K Bb Hö +iBQM /ömm TT`2BH- /ömm bb2K#
 + T #H2 /2 +`û2` H TmBbb M+2 KQi`B+2 2M [m MiBiû
 /2 iB`2`bm++2bbBp2K2Mi /m`2TQB iQmb H2b +Q`Tb /2
 i`Qmp B2Mi THQM;ûb- /2 /ûi`mB`2 2M 2mt H2 T`BM+BT2
 2M}M /2 TmBb2` 2M HmB@K K2 H2b 7Q`+2b Mû+2bb

R3 a /B * `MQiXÜR-2kBX Mb bm` H TmBbb M+2 KQ

/2 TmBbb M+2 KQi`B+2 `ûbmHi Mi /2 Hö2
2bi mbbB H2 K tBKmK /2 TmBbb M+2 KQi`
[m2H[m2 KQv2M [m2Q+2bb/QBM M2`QMb- m
#B2Mi~i mM2 b2+QM/2 /ûKQMbi` iBQM TH
i?ûQ` K2X *2HH2@+B M2 /QBi i`2 +QMbB
T2`İmX UoX T ;X kNVX

PM 2bi 2M /`QBi /2 MQmb 7 B`2- m bmd2
[mB pB2Mi /ö i`2 ûMQM+û2- H [m2biBQM b
H2 b2Mb /K KCKmK [m2H bB;M2`2+QMM V
[m2 +2 K tBKmK 2bi ii2Bmi~\ " [m2H bB;M
i@QM bB H p T2m` 2bi 2KTHQvû2 H2 TH
TQbbB#H2 " H T`Q/m+iBQM /2 H TmBbb M

SmBb[m2 iQmi`ûi #HBbb2K2Mi /öû[mB
`B[m2 T2mi i`2 H + mb2 /2 H T`Q/m+iBQ
KQi`B+2- iQmi`ûi #HBbb2K2Mi /öû[mBHB
T`Q/m+iBQM /2 +2ii2 TmBbb M+2 /2p` i`2
mM2 pû`Bi #H2 T2`i2~ , Q`- TQm` T2m [m
QM bö T2`+2p` [m2 iQmi +? M;2K2Mi /2 i
Mö2bi T b /? " mM +? M;2K2Mi /2 pQHmK
T2mi i`2 [mömM`ûi #HBbb2K2Mi BMmiB
H2 + HQyB [m2+QM/BiBQM Mû+2bb B`2 /m

HömMBp2`b iQmi 2MiB2`- TQm` T`QHQM;2`- TQm`
bQM KQmp2K2MiX h2HH2 b2` Bi mM2 pû`Bi #H2 +
KQi`B+2X aB 2HH2 ûi Bi TQbbB#H2- BH b2` Bi B
H2b +Qm` Mb /ö2 m 2i /ö B`- / Mb H2b +QK#mbiB
KQi`B+2`c MQmb 2M m`BQMb` MQi`2 /BbTQbBiBQ
QM MQmb TQm``BQMb TmBb2` " pQHQMîûX

RyXLQmb M2 bmTTQbQMb B+B m+mM2 +iBQM +?BK
2M mb ;2 TQm` `û HBb2` H TmBbb M+2 KQi`B+2 /

/QM[möBH M2 b2 7 bb2 / Mb H2b +Q`Tb 2KTH
H TmBbb M+2 KQi`B+2 /2 H +? H2m` m+mM
i2KTû` im`2 [mB M2 bQBi /? " mM +X M;2K2M
_û+BT`Q[m2K2Mi- iQmi2b H2b 7QBb [m2 +2i
`2KTHB2- H2 K tBKmK b2` ii2BMiX

*2 T`BM+BT2 M2 /QBi D K Bb i`2 T2`/m /2
+QMbi`m+iBQM /2b K +?BM2b " 72m`c BH 2M
K2Mi H2X aB HöQM M2 T2mi T b HöQ#b2`p2`
7 mi /m KQBMb bö2M û+ `i2` H2 KQBMb TQbb

hQmi+? M;2K2Mi /2 i2KTû` im`2 [mB Mö2bi
+? M;2K2Mi /2 pQHmK2 Qm " mM2 +iBQM +?M
[m2 T`QpBbQB`2K2Mi MQmb bmTTQbQM b M2
B+BV 2bi Mû+2bb B`2K2Mi /? m T bb ;2 /B`2
/ömM +Q`Tb THmb Qm KQBMb û+? mzû " mM
*2 T bb ;2 HB2m T`BM+BT H2K2Mi m +QMi
i2KTû` im`2b /Bp2`b2b~ , mbbB mM T`2BH
i`2 ûpBiû mi Mi [m2 TQbbB#H2X AH M2 T2n
+QKTH i2K2Mi- b Mb /Qmi2`c K Bb BH 7 mi /m
bQ`i2 [m2 H2b +Q`Tb KBb 2M +QMi +i H2b mM
/Bz `2Mi T2m 2Mi`2 2mt /2 i2KTû` im`2X

GQ`b[m2 MQmb pQM b bmTTQbû iQmi` Hö?
/ûKQMbi` iBQM- H2 + HQ`B[m2 /m +Q`Tb 2K
/2 H p T2m`- +2ii2 p T2m` ûi Bi +2Mbû2 T`2M
" H i2KTû` im`2 K K2 /m +Q`Tb ~ , BMbB H

+?BKB[m2 [mB b2 T bb2 / Mb H2 7Qv2` 2bi mM2 +iBQ
T`ûHBKBM B`2- mM2 QTû` iBQM /2biBMû2- MQM " T`Q
/2 H TmBbb M+2 KQi`B+2- K Bb " `QKT`2 Höû[mBHB
" T`Q/mB`2 mM2 /Bzû`2M+2 /2 i2KTû` im`2 [mB /QBi 2
M Bbb M+2 m KQmp2K2MiX

ky a /B * `MQiX~~U-32t9X~~MB b m` H TmBbb M+2 KQ

Mö p Bi HB2m [mö2Mi`2 /2b +Q`Tb /2 i2KTû
+? M;2K2Mi /2 i2KTû` im`2 ``Bpû 2Mbmbi
ûi Bi /? ``H /BH i iBQM- T ``+QMbü[m2Mi
/2 pQHmK2~c 2M}M H +QM/2Mb iBQM bö
+QMi +i /2 +Q`Tb /2 i2KTû` im`2b /Bp2`b2
2M 2t2`İ Mi mM2 T`2bbBQM +QMbi Mi2 bm
+QMi +i p2+ H2 +Q`Tb "/2 K K2 i2KTû` im
+QM/BiBQM b /m K tBKmK b2 i`Qmp B2Mi /
pû`Biû H2b +?Qb2b M2 T2mp2Mi T b b2 T b
+QKK2 MQmb Hö pQM b bmTTQbûX SQm` /
/m + HQ`B[m2 /ö mM +Q`Tb ``Hö mi`2- BH 7
2t+ b /2 i2KTû` im`2~c K Bb +2i 2t+ b T2m
mbbB T2iBi [möQM H2 pQm/` ~c QM T2mi
MmH 2M i?ûQ`B2- b Mb [m2 TQm` +2H
T2`/2Mi`B2M /2 H2m` 2t +iBim/2X

GöQM T2mi 7 B`2 ``MQi`2 /ûKQMbi` iBQ
THmb`û2HH2- [m2 pQB+B~,

GQ`b[m2 HöQM 2KT`mMi2 /m + HQ`B[m2
/QMM2`M Bbb M+2 ``/2 H p T2m`- 2i [m2
2Mbmbi2 +QM/2Mbû2 T`bQM +QMi +i p2
2KTHQvû2 ``H 7Q`K2` 2i [m2 HöQM bmTT
i2KTû` im`2 /m +Q`Tb b2 i`Qmp2- ``H }M
``H i2KTû` im`2 /m +Q`Tb ``~c 2HH2 bö2bi
p2mi`2+QKK2M+2`mM2 QTû` iBQM b2K#H
bB HöQM p2mi /ûp2HQT T2`mM2 MQmp2HH
KQi`B+2 p2+ H2 K K2 BMbi`mK2Mi- p2+ I
BH 7 mi /ö #Q`/`ûi #HB`H2b +?Qb2b / Mb
BH 7 mi`2M/`2 ``Hö2 m H2 /2;`û /2 i2KTû`
/ö #Q`/X *2H T2mi b2 7 B`2 b Mb /Qmi2

BKKû/B i2K2Mi 2M +QMi +i p2+ H2 +Q`Tb ~
 HQ`b +QMi +i 2Mi`2 /2b +Q`Tb /2 i2KTû` im`
 T2`i2 /2 TmBbb M+2, BQi/Bp22M/` Bi BKTQbbb
 /ö2tû+mi2` HöQTû` iBQM BMp2`b2- +ö2bi@`
 M2` m+Q`Tb H2+ HQ`B[m2 2KTHQvû` ûH2p
 /m HB[mB/2X

*2ii2 /B{+mHiû T2mi i`2 H2pû2 2M bmTTG
 7û`2M+2 /2 i2KTû` im`2 2Mi`2 H2 +Q`Tb 2i
 BM}MBK2Mi T2iBi2~c H [m MiBiû /2 +? H2m`
 `2TQ`i2` H2 HB[mB/2` b i2KTû` im`2 T`2KB
 BM}MBK2Mi T2iBi2 2i Mû;HB;2 #H2`2H iBp2
 2bi Mû+2bb B`2 TQm` /QMM2` M Bbb M+2` H
 iQmDQm`b }MB2X

G T`QTQbBiBQM- b2 i`Qmp Mi /ö BHH2m`b
 H2 + b QM H /Bzû`2M+2 2Mi`2 H2b i2KTû` i
 +Q`Tb 2bi BM}MBK2Mi T2iBi2- b2` 7 +BH2K2

R X*2 ;2M`2 /2 T2`i2 b2`2M+QMi`2 / Mb iQmi2b H2b
 p T2m`~, 2M 2z2i- Hö2 m /2biBMû2` HBK2Mi2` H +? m
 THmb 7`QB/2 [m2 Hö2 m [mB v 2bi /ûD` +QMi2Mm2`
 2HH2b mM`ûi #HBbb2K2Mi BMmiBH2 /öû[mBHB#`2 /
 +QMp BM+` BTK22M BQ`B2`ûi #HBbb2K2Mi /öû[mBH
 2Mi` WM2 mM2 T2`i2 /2 TmBbb M+2 KQi`B+2- bB Hö
 2?i ûiû TQbbbB#H2 /öû+? mz2` T`û H #H2K2Mi Hö2 m
 Hö2KTHQv Mi +QKK2 2 m /2 +QM/2Mb iBQM / Mb mM2
 ++2bbQB`2- QM HöQM 2?i 7 Bi mb ;2 /2 H p T2m`iE
 +? m/B`2 2i QM H +QM/2Mb iBQM b2 7?i QTû`û2` m
 BMi2`Kû/B B`2 2Mi`2 +2HH2 /2 H +? m/B`2 2i +2HH
 T`BM+BT HXG 7Q`+2T`Q/mBi2 T`H T2iBi2 K +?BM2
 /ûT2Mb2 /2 +? H2m`- TmBb[m2 iQmi2 +2HH2 [mB 2?i û
 `2Mi`û2 / Mb H +? m/B`2 p2+ Hö2 m /2 +QM/2Mb iBQ

kk a /B * `MQiX_ R-32tBXQ Mb bm` H TmBbb M+2 KQ

;ûMû` HX 1M 2z2i- böBH bö ;Bbb Bi/2 7 B
KQi`B+2 T ` H2 i` MbTQ`i /m + HQ`B[m2
+Q`Tb w- H i2KTû` im`2 /2 +2 /2`MB2` +
/Bzû`2Mi2 /2 +2HH2 /m T`2KB2`- QM BK ;
/2 +Q`Tb "- *- .- 2i+X- /2 i2KTû` im`2b B
2Mi`2 +2HH2b /2b +Q`Tb - w- 2i +?QBbB
[m2 H2b /Bzû`2M+2b /2 " "- /2 " " *- 2i+X-
BM}MBK2Mi T2iBi2bX G2 + HQ`B[m2 ûK M
" w [mö T` b pQB` T bbû T ` H2b +Q`Tb "
T` b pQB` /ûp2HQTtû / Mb +? +mM /2 b
K tBKmK /2 TmBbb M+2 KQi`B+2X G2b QT
b2` B2Mi B+B iQmi2b TQbbB#H2b- 2i H2`
ky /2pB2M/` Bi`B;Qm`2mb2K2Mi TTHB+ ;
.ö T` b H2b MQiBQM b ûi #HB2b Dmb[mö
+QKT`2` p2+ bb2x /2 Dmbi2bb2 H TmB
H +? H2m` " +2HH2 /ömm2 +?mi2 /ö2 m~
mM K tBKmK [m2 HöQM M2 T2mi T b /ûT b
bQBi /ömm2 T `i H K +?BM2 2KTHQvû2 " `.
Hö2 m- 2i [m2HH2 [m2 bQBi /2 Hö mi`2 H
" `2+2pQB` Hö +iBQM /2 H +? H2m`X G
/ömm2 +?mi2 /ö2 m /ûT2M/ /2 b ? mi2m` 2
/m HB[mB/2~c H TmBbb M+2 KQi`B+2 /2
mbbB /2 H [m MiBiû /2 + HQ`B[m2 2KTHQ
TQm`` Bi MQKK2`- /2 +2 [m2 MQmb TT2
H ? mi2m` /2 b^{Rk} +öa b2 @ " @/B`2 /2 H /Bzû

RkG K iB `2 B+B i` Biû2 ûi Mi iQmi@ " @7 Bi MQm
7Q`+ûb /ö2KTHQv2` /2b 2tT`2bbBQM b 2M+Q`2 BMm
i`2 T b iQmi2 H +H `iû /ûbB` #H2X

i2KTû` im`2 /2b +Q`Tb 2Mi`2 H2b[m2Hb b2 7
 + HQ`B[m2X . Mb H +?mi2 /ö2 m- H TmBbb
 `B;Qm`2mb2K2Mi T`QTQ`iBQMM2HH2 " H /B
 2Mi`2 H2`ûb2`pQB` bmTû`B2m` 2i H2`ûb2`p
 H +?mi2 /m + HQ`B[m2- H TmBbb M+2 KQ
 b Mb /Qmi2 p2+ H /Bzû`2M+2 /2 i2KTû` im
 +Q`Tb +? m/ 2i H2 +Q`Tb 7`QB/~c K Bb MQmb
 2bi T`QTQ`iBQMM2HH2 " +2ii2 /Bzû`2M+2X L
 2t2KTH2- bB H +?mi2 /m + HQ`B[m2 /2 Ryyê "
 Qm KQBMb /2 TmBbb M+2 KQi`B+2 [m2 H +?
 + HQ`B[m2 /2 8yê " yêX *ö2bi mM2 [m2biBQM
 T`QTQbQMb /ö2t KBM2` THmb i` /X

LQmb HHQMb /QMM2` B+B mM2 b2+QM/2 /
 H T`QTQbBiBQM 7QM/ K2Mi H2 ûMQM+û2 T
 +2ii2 T`QTQbBiBQM bQmb mM2 7Q`K2 THmb
 M2 Hö pQMb 7 Bi +B @/2bbmbX

GQ`b[mömm ~mB/2 ; x2mt 2bi` TB/2K2Mi +
 i2KTû` im`2 böûH p2~c 2HH2 bö # Bbb2 m +
 2bi` TB/2K2Mi /BH iûX *ö2bi H" mM /2b 7 E
 +QMbi iûb T` Hö2tTû`B2M+2~ , MQmb H2 T`2
 /2 MQi`2 /ûKQM~~ix~~` iBQM

RjXG2b 7 Bib /ö2tTû`B2M+2 [mB T`Qmp2Mi H2 KB2mt H
 i2KTû` im`2 /2b ; x T` H +QKT`2bbBQM Qm H /BH i
 bmBp Mib~ ,

Rö # Bbb2K2Mi /m i?2`KQK i`2 TH +û bQmb H2`û
 K +?BM2 TM2mK iB[m2 QM HöQM 7 Bi H2 pB/2X *2i
 i` b@b2MbB#H2 bm` H2 i?2`KQK i`2 /2 "2;m2i~ , B
 /2H" /2 9y " 8y /2;`ûbX G2 Mm ;2 [mB b2 7Q`K2 / Mb +

b2K#H2 /2pQB` i`2 i`B#mû " H +QM/2Mb iBQM
 + mbû2 T ` H2 `27`QB/Bbb2K2Mi /2 Hö B`X
 kêGöBM~ KK iBQM /2 Hö K /Qm / Mb H2b #`B[m2ib
 [mB bQM i- +QKK2 QM b Bi- /2 T2iBib +Q`Tb /2 T
 ûT`Qmp2` " Hö B` mM2 +QKT`2bbBQM` TB/2`c
 jêGö # Bbb2K2Mi /mi?2`KQK i`2 TH +û / Mb mM2 +
 pQB` +QKT`BKû /2 Hö B` - QM H2 H Bbb2 û+? "
 /ö mM`Q#BM2i`c
 9êG2b`ûbmHi ib /ö2tTû`B2M+2 bm` H pBi2bb2 /m
 7 Bi pQB` [m2- TQm` bQmK2ii`2 2t +i2K2Mi +
 i?ûQ`B2 2i m + H+mH- BH 7 HH Bi /K2ii`2 Hö
 T ` mM2 +QKT`2bbBQM bm#Bi2X
 G2 b2mH 7 Bi [mB TmBbb2 i`2 QTTQbû " +2mt@+E
 JJX : v@Gmbb + 2i q2Hi2`- /ûM`Bi22bmB #2bbB[m2
 /2 +?B`BM2 T2iBi2 Qmp2`im`2 v Mi ûiû 7 Bi2 " mM
 /ö B` +QKT`BKû- 2i H #QmH2 /ö mM i?2`KQK i`2
 m +Qm` Mi /ö B` [mB bQ`i Bi T ` +2ii2 Qmp2`im`2-
 /ö # Bbb2K2Mi b2MbB#H2 / Mb H2 /2;`û /2 i2KTû`
 i?2`KQK i`2X
 GöQM T2mi /QMM2` " +2 7 Bi /2mt 2tTHB+ iBQM
 /2 Hö B` +QMi`2 H2b T `QBb /2 HöQmp2`im`2 T `
 /ûp2HQT T2 T2mi@ i`2 /2 H +? H2m` 2M [m MiBiû
 pB2MiiQm+?2`BKKû/B i2K2Mi H #QmH2 /mi?2`KQ
 i`2- T ` bQM +?Q+ +QMi`2 +2ii2 #QmH2- Qm THmi-
 [möBH 2bi 7Q`+û /2 T`2M/`2 " b `2M+QMi`2- mM2
 [möBH p Bi / Mb H2 `û+BTB2Mi- " T2m T` b +QKK
 böûH p2- +QMi`2 mM Q#bi +H2 }t2- m@/2bbmb /2
 G2 +? M;2K2Mi /2 i2KTû` im`2 Q++ bBQMû / Mb
 +? M;2K2Mi/2 pQHmK2 T2mi i`2`2; ` /û+QKK2 Höm
 BKTQ`i Mb /2 H T?vbB[m2- " + mb2 /2b MQK#`2mb2
 2Mi` WM2- 2i 2M K K2 i2KTb +QKK2 HömM /2b THm
 2i " K2bm`2` T ` /2b 2tTû`B2M+2b /û+BbBp2bX AH
 THmbB2m`b +B`+QMbi M+2b /2b MQK HB2b bBM;r

aB- HQ`b[mömm ; x bö2bi ûH2pû /2 i2KTû`
 /2 H +QKT`2bbBQM- HöQM p2mi H2 ` K2M2
 im`2 T`BKBiBp2 b Mb 7 B`2 bm#B` " bQM pQH
 +? M;2K2Mib- BH 7 mi HmB 2MH2p2` /m + HQ`
 TQm`` Bi mbbB i`2 2MH2pû " K2bm`2 [m2 H
 bö2tû+mi2- /2 K MB `2 " +2 [m2 H i2KTû` i
 `2bi•i+QMbi Mi2X .2 K K2- bB H2 ; x 2bi ` `û]
 ûpBi2` [möBH M2 # Bbb2 /2 i2KTû` im`2 2M
 mM2 +2`i BM2 [m MiBiû /2 + HQ`B[m2X LQm
 + HQ`B[m2 2KTHQvû / Mb +2b Q++ bBQM b QM
 +? M;2K2Mi /2 i2KTû` im`2- + HQ`B[m2 /? m
 /2 pQHmK2X *2ii2 /ûMQKBM iBQM MöBM/B[m
 `B[m2 TT `iB2MM2 m pQHmK2- BH M2 HmB
 [möBH Mö TT `iB2Mi " H T`2bbBQM- 2iTQm`
 #B2M TT2Hû + HQ`B[m2 /? m +? M;2K2Mi /2
 B;MQ`QM b [m2HH2b HQBb BH bmbi`2H iBp2h
 pQHmK2~ , BH 2bi TQbbB#H2 [m2 b [m MiBiû
 H M im`2 /m ; x- bQBi p2+ b /2MbBiû- bQBi
 ` im`2X Gö2tTû`B2M+2 M2 MQmb `B2M TT`

Lö2bi@+2 T b m `27`QB/Bbb2K2Mi /2 Hö B` T ` H
 7 mi ii`B#m2` H2 7`QB/ /2b `û;BQM b bmtû`B2m`2b /
 G2b ` BbQM b /QMMû2b Dmb[möB+B TQm` 2tTHB[m2`
 7 Bi BMbm{b Mi2b~ , QM /Bi [m2 Hö B` /2b `û;BQM b
 T2m /2 +? H2m` `û~û+?B2 T ` H i2`2- 2i` vQMM Mi H
 2bT +2b +ûH2bi2b- /2p Bi T2`/2 /m + HQ`B[m2- 2i[m2
 /2 bQM `27`QB/Bbb2K2Mi~c K Bb +2ii2 2tTHB+ iBQM b
 HöQM `2K `[m2 [mö` û; H2 ? mi2m` H2 7`QB/ ` ;M2 mb
 p2+ THmb /öBMi2MbBiû bm` H2b TH BM2b ûH2pû2b [i
 KQMi ;M2b- Qm [m2 / Mb H2b T `iB2b /ö iKQbT? `2 ûH

ke a /B * `MQiX R-3k9X Mb bm` H TmBbb M+2 KQ

2HH2 MQmb TT`Bb b2mH2K2Mi[m2 +2 +
2M[m MiBiû THmb Qm KQBMb ;` M/2 T `H
~mB/2b ûH biB[m2bX

*2ii2 MQiBQM T`ûHBKBM B`2 ûi Mi TQb
~mB/2 ûH biB[m2- /2 Hö B` iKQbT?û`B[m
72`Kû / Mb mMp Bbb2 #+/y;XBM/KB[m2 /öm
/B T?` ;K2 KQ#BH2 Qm TûBiQM 2M Qmi`2
/2mt +Q`Tb - "- 2Mi`2i2Mmb +? +mM " mM
+QMbi Mi2- +2HH2 /2 ûi Mi THmb ûH2pû
};m`QMb@MQmb K BMi2M Mi H bmBi2 /2b
i`2 /û+`Bi2b~ ,

RêQMi +i /m +Q`Tb p2+ Hö B` `2M72`Kû
#+/Qm p2+ H T `QB /2 +2ii2 + T +Biû-
bmTTQb2`QMbi` MbK2ii`2 7 +BH2K2Mi
b2 i`Qmp2 T ` +2 +QMi +i " H i2KTû` ir
+Q`Tb +72bi H TQbBiBQM +im2HH2 /m
kêG2 TBbiQM böûH p2 ;` /m2HH2K2Mi- 2i
TQbB2XQM +QMi +i iQmDQm`b HB2m 2
2i Hö B`- [mB b2 i`Qmp2 BMbB K BMi2M
+QMbi Mi2 T2M/ Mi H ``û7 +iBQMX G2
H2 + HQ`B[m2 Mû+2bb B`2 TQm` K BMi2
i2KTû` im`2X

jêG2 +Q`Tb 2bi ûHQB;Mû- 2i Hö B` M2 b
+QMi +i p2+ m+mM +Q`Tb + T #H2 /2 H
HQ`B[m2~c H2 TBbiQM +QMiBMM2 +2T2I
T bb2 /2 H T27BiBQM B?BQM B` b2 `û}
b Mb`2+2pQB` /2 + HQ`B[m2- 2i b i2KT
AK ;BMQMb [mö2HH2 bö # Bbb2 BMbB

+2H2 /m +Q`Tb ~", +2 KQK2Mi H2 TBbiQ
 Q++mT2 H T QbBiBQM
 9 G ö B` 2bi KBb 2M +QMi +i p2+ H2 +Q`Tb
 +QKT`BKû T `H2`2iQm` /m TBbiQM- [m2 H
 H TQbB?BQM TQbB/B*QM B` `2bi2 +2T2M/ M
 " mM2 i2KTû` im`2 +QMbi Mi2- " + mb2 /2 b
 p2+ H2 +Q`Tb " m[m2H BH + /2 bQM + HQ`
 8 G 2 +Q`Tb " 2bi û+ `iû- 2i HöQM +QMiBMM2
 /2 Hö B` - [mB- b2i`Qmp Mi HQ`b BbQHû- b
 im`2X G +QKT`2bbBQM 2bi +QMiBMMû2 Dm
 Bi +[mBb H i2KTû` im`2 /m +Q`Tb X G2 T
 T2M/ Mi +2 i2KTb /2 H/" TQbTQbB/BQM
 e G ö B` 2bi`2KBb 2M +QMi +i p2+ H2 +Q`Tb
 `2iQm`M2 /2 H BTQbBTQbB/BQM i2KTû@
 ` im`2 /2K2m`2 BMP `B #H2X
 d G Tû`BQ/2 /û+`Bi2 bQmb H2 MQ~j b2`2M
 bm++2bbBp2K2Mi H2b Tû`BQ/2b 9- 8- e- j
 8- BMbB /2 bmBi2X
 . Mb +2b /Bp2`b2b QTû` iBQMb- H2 TBbiQM
 THmb Qm KQBMb ;` M/ /2 H T`i /2 Hö B` `2
 H2 +vHBM/`2~c H 7Q`+2 ûH biB[m2 /2 +2i
 + mb2 /2b +? M;2K2Mib /2 pQHmK2 [m2 /2b +?
 i2KTû` im`2~c K Bb HöQM /QBi`2K `[m2` [mö
 +ö2bi@" @/B`2 TQm` /2b TQbBiBQMb b2K#H
 i2KTû` im`2 b2i`Qmp2 THmb ûH2pû2 T2M/ Mi
 /2 /BH i iBQM[m2 T2M/ Mi H2b KQmp2K2Mib /
 S2M/ Mi H2b T`2KB2`b- H 7Q`+2 ûH biB[m2 /
 /QM+ THmb ;` M/2 2i T` +QMbû[m2Mi H [m
 b M+2 KQi`B+2 T`Q/mBi2 T` H2b KQmp2K2M

k3 a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

2bi THmb +QMbB/û` #H2 [m2 +2HH2 [mB
T`Q/mB`2 H2b KQmp2K2Mib /2 +QKT`2bbB
iB2M/` mM 2t+û/ Mi /2 TmBbb M+2 KQi`B
QM TQm`` /BbTQb2` TQm` /2b mb ;2b [m
MQmb /QM+ b2`pB /2 K +?BM2 " 72m~cM
2KTHQvû /2 H K MB `2 H THmb p Mi ;2m
M2 bö2bi 7 Bi m+mM`ûi #HBbb2K2Mi BM
H2 + HQ`B[m2X

hQmi2b H2b QTû` iBQMb +B@/2bbmb /û
2tû+miû2b / Mb mM b2Mb 2i / Mb mM Q`/
;BMQMb [mö T` b H bBtB K2 Tû`BQ/2- +ö
ûi Mi ``Bpû` H 27QMBH2QMbb2`2p2MB`" H
Bf2i [mö2M K K2 i2KTb QM K BMiB2MM2
p2+ H2 +Q`Tb ~, H2 + HQ`B[m2 7Qm`MB T
H bBtB K2 Tû`BQ/2- `2iQm`M2` " b bQm
+Q`Tb - 2i H2b +?Qb2b b2 i`Qmp2`QM i /
ûi B2Mi " H }M /2 H Tû`BQ/2 +BM[mB K2
QM û+ `i2 H2 +Q`Tb - 2i [m2 HöQM 7 bb2
/2272M / H i2KTû` im`2 /2 Hö B` /û+`QWi`
/2;`ûb [mö2HH2 bö2bi ++`m2 T2M/ Mi H`
2i /2pB2M/` +2HH2 /m +Q`Tb "X GöQM T
+QM iBMm2` mM2 bmBi2 /öQTû` iBQMb BMP
pQM b /ö #Q`/ /û+`Bi2b~ , BH bm{i /2 b2`
K K2b +B`+QMbi M+2b 2i /ö2tû+mi2` TQm
mM KQmp2K2Mi /2 /BH i iBQM m HB2m /ö
+QKT`2bbBQM- 2i`û+BT`Q[m2K2MiX

G2`ûbmHi i /2b T`2KB`2b QTû` iBQM b
/m+iBQM /ömm2 +2`i BM2 [m MiBiû /2 Tm
H2 i` MbTQ`i /m + HQ`B[m2 /m +Q`Tb

`ûbmHi i /2b QTû` iBQMb BMP2`b2b 2bi H +
H TmBbb M+2 KQi`B+2 T`Q/mBi2- 2i H2 `2iC
/m +Q`Tb " m +Q`Tb ~ , /2 bQ`i2 [m2 +2b /2
/öQTû` iBQMb bö MMmH2Mi- b2 M2mi` HBb2
Hömm2 Hö mi`2X

GöBKTQbbbB#BHBiû /2 7 B`2 T`Q/mB`2 m +
iBiû /2 TmBbb M+2 KQi`B+2 THmb ;` M/2 [m2
2M pQMb Q#i2Mm2 T` MQi`2 T`2KB `2 bmb
2bi K BMi2M Mi 7 +BH2 " T`Qmp2`X 1HH2 b2
mM` BbQMM2K2Mi 2MiB `2K2Mi b2K#H #H2 "
pQMb 7 Bi mb ;2 T ;X kyX G2 ` BbQMM2K2M
B+B mM /2;`û /ö2t +iBim/2 /2 THmb~ , Hö B` /
b2`pQMb TQm` /ûp2HQTt2` H TmBbb M+2 KC
" H }M /2 +? [m2 +2`+H2 /öQTû` iBQMb- T`û+
QM BH b2i`Qmp Bi /ö #Q`/- i M/Bb [möBH Mö2
7 Bi /2 K K2 TQm` H p T2m` /ö2 m- BMbB [m
`2K` [mX

RXLQmb bmTTQbQMb BKTHB+Bi2K2Mi / Mb MQi`2 /ûK
HQ`b [mömm +Q`Tb ûT`Qmpû /2b +? M;2K2Mib [m2H+
mM +2`i BM MQK#`2 /2 i` Mb7Q`K iBQMb BH 2bi` K2M
" bQM ûi i T`BKBiB7- +ö2bi@`@/B`2 " +2i ûi i +QMbB/û
/2MbBiû- " H i2KTû` im`2- m KQ/2 /ö ;`û; iBQM- MQm
/Bb@D2- [m2 +2 +Q`Tb b2i`Qmp2 +QMi2MB`H K K2 [
[möBH +QMi2M Bi /ö #Q`/- Qm mi`2K2Mi- [m2 H2b [m
#bQ`#û2b Qm /û; ;û2b / Mb b2b /Bp2`b2bi` Mb7Q`K iE
K2Mi +QKT2Mbû2bX *2 7 Bi Mö D K Bb ûiû`ûpQ [mû2M
/ö #Q`/ /KBb b Mb`û~2tBQM 2i pû`B}û 2Mbmbi2 / Mb
T`H2b 2tTû`B2M+2b /m + HQ`BK i`2X G2 MB2`-+2 b2
H i?ûQ`B2 /2 H +? H2m`- " H [m2HH2 BH b2`i /2 # b

jy a /B * `MQiX_ B320BQM b b m` H T m B b b M+2 K Q

L Q m b p Q M b + ? Q B b B H ö B ` i K Q b T ? û ` B [K 2 M i [m B / 2 p B i / û p 2 H Q T T 2 ` H T m B b b M + H 2 m ` ~ c K B b B H 2 b i û p B / 2 M i [m 2 H 2 b ` B b Q H 2 b K K 2 b T Q m ` i Q m i 2 m i ` 2 b m # b i M + 2 ; T Q m ` i Q m i m i ` 2 + Q ` T b b m b + 2 T i B # H 2 / 2 + ` i m ` 2 T ` / 2 b + Q M i ` + i B Q M b 2 i / 2 b / B H i i + 2 [m B + Q K T ` 2 M / i Q m b H 2 b + Q ` T b / 2 H M i Q m b + 2 m t [m B b Q M i T ` Q T ` 2 b " ` û H B b 2 ` H / 2 H + ? H 2 m ` X B M b B M Q m b b Q K K 2 b + Q T ` Q T Q b B i B Q M ; û M û ` H 2 [m 2 p Q B + B ~ ,

G T m B b b M + 2 K Q i ` B + 2 / 2 H + ? H 2 m ` 2 b ; 2 M i b K B b 2 M ¾ m p ` 2 T Q m ` H ` û H B b 2 ` ~ c l m M B [m 2 K 2 M i T ` H 2 b i 2 K T û ` i m ` 2 b / 2 b + Q b 2 7 B i 2 M / 2 ` M B 2 ` ` û b m H i i H 2 X ` M b T Q ` i

A H 7 m i b Q m b @ 2 M i 2 M / ` 2 B + B [m 2 + ? + m / û p 2 H Q T T 2 ` H T m B b b M + 2 K Q i ` B + 2 i i 2 B M 2 H H 2 2 b i b m b + 2 T i B # H 2 X * 2 i i 2 + Q M / B i B Q M + Q K K 2 M Q m b H ö p Q M b ` 2 K `[m û T H m b ? m H 2 b + Q ` T b m + m M + ? M ; 2 K 2 M i / 2 i 2 K T û ` i r " m M + ? M ; 2 K 2 M i / 2 p Q H m K 2 - Q m - + 2 [m B 2 m i ` 2 K 2 M i 2 t T ` B K û 2 - b ö B H M ö v D K B b / 2 + Q ` T b / 2 i 2 K T û ` i m ` 2 b b 2 M b B # H 2 K 2 M i / B z

G 2 b / B p 2 ` b 2 b K û i ? Q / 2 b / 2 ` û H B b 2 ` H T T 2 m p 2 M i i ` 2 T ` B b 2 b / ö B H H 2 m ` b - b Q B i / b i M + 2 b / B p 2 ` b 2 b - b Q B i / M b H ö 2 K T H Q B /

i ? û Q ` B 2 / 2 H + ? H 2 m ` m ` B 2 M i # 2 b Q B M / 2 H ö 2 t S H m b B 2 m ` b 7 B i b / ö 2 t T û ` B 2 M + 2 T ` B b b 2 M i ` T 2 m H ö û i i + i m 2 H / 2 + 2 i i 2 i ? û Q ` B 2 X

" /2mt ûi ib /Bzû`2Mib- T ` 2t2KTH2- /ömM ;
/2MbBiûb /Bzû`2Mi2bX

*2+B MQmb +QM/mBi M im`2HH2K2Mi " /2b
`2bb Mi2b bm` H2b ~mB/2b û`B7Q`K2b~c`2+
K M2`QMi /ö BHH2m`b " /2 MQmp2 mt`ûbmH
b M+2 KQi`B+2 /2 H +? H2m`- 2i MQmb /QMM
/2 pô`B}2` / Mb [m2H[m2b + b T `iB+mHB2`b
7QM/ K2Mi H2 +B@^{R9}2bmb ûMQM+û2

GöQM`2K`[m2` 7 +BH2K2Mi [m2 MQi`2 /ü
2?i ûiû bBKTHB}û2 2M bmTTQb Mi H2b i2KTû`
2i " 7Q`i T2m /Bzû`2Mi2b 2Mi`2 2HH2bX H
K2Mib /m TBbiQM b2 i`Qmp Mi 7Q`i T2m ûi2M/
Tû`BQ/2b j 2i 8- +2b Tû`BQ/2b 2mbb2Mi Tm
b Mb BM~m2M+2 b2MbB#H2 bm` H T`Q/m+iB
KQi`B+2X IM 7Q`i T2iBi +? M;2K2Mi /2 pQHm
2M 2z2i TQm` T`Q/mB`2 mM 7Q`i T2iBi +? M;2
` im`2- 2i +2 T2iBi +? M;2K2Mi /2 pQHmK2 2b
" +~iû /2 +2HmB /2b Tû`BQ/2b 9 2i e- /QMi H
BHHBKBiû2X

aB HöQM bmTT`BK2 H2b Tû`BQ/2b j 2i 8 / M
` iBQMb +B@/2bmb /û+`Bi2- 2HH2 b2`û/mB
RēQMi +i /m ; x`2M7#2+Kû; 2MV p2+ H2 +Q`Tb
- T bb ;2 /m TBb/2QM7/2
kâúHQB;M2K2Mi /m +Q`Tb - +QMi +i /m ; x`
#27p2+ H2 +Q`Tb "-`2iQm2 2M7#2+Kû; 2MV p2+ H2 +Q`Tb
2M7#2+Kû; 2MV p2+ H2 +Q`Tb

RXLQmb bmTTQb2`QMb- / Mb +2 [mB p bmBp`2- H2 H
/2b /2`MB2`b T`Q;` b /2 H T?vbB[m2 KQ/2`M2- 2M+2
bm#bi M+2b ; x2mb2b 2i H +? H2m`X

jk a /B * `MQiX_ B 3 2 0 BQM b b m` H T m B b b M+2 K Q

jêúHQB;M2K2Mi /m +Q`Tb "- +QMi +i /m ;
- T b b ;2 /m T B b /2 Q M 7 +2ö 2bi@ " @ /B`2`2M
H2K2Mi /2 H Tû`BQ/2 T`2KB `2- B M b B
G T m B b b M+2 K Qi`B+2`û b m Hi Mi2 /2 H ö 2
i B Q M b R- k- b 2`û p B /2 K K 2 Mi H /B z û`2 M+2
T`Q /m Bi2 T `H ö 2 t T M b B Q M /m ; x i M /B b [
i 2 K T û`im`2 /m +Q`Tb - 2i +2 H H 2 [m B 2 bi
+Q K T`B K 2`+2 ; x i M /B b [m ö B H b 2 i`Q m p 2
/m +Q`Tb " X

a m T T Q b Q M b [m 2 H 2 b Q T û`i B Q M b R- k
b m` /2 m t ; x /2 M i m`2 b +? B K B [m 2 b /B z û`
b Q m b H K K 2 T`2 b b B Q M- b Q m b H T`2 b b
T`2 t 2 K T H 2 ~ , +2 b /2 m t ; x b 2 +Q K T Q`i 2`Q
H ö m M +Q K K 2 H ö m i`2 / M b H 2 b K K 2 b +B`-
/B`2 [m 2 H 2 m`b 7 Q`+2 b 2 t T M b B p 2 b- T`B K E
2 H H 2 b- /2 K 2 m`2`Q M i i Q m D Q m`b û ; H 2 b- [
p`B i B Q M b /2 p Q H m K 2 2 i /2 i 2 K T û`im`2-
p`B i B Q M b b Q B 2 Mi H 2 b K K 2 b /2 T`i 2 i /ö
û p B /2 K K 2 Mi /2 b H Q B b /2 J`B Q i i 2 2 i /2 J J
2 i . Hi Q M- H Q B b +Q K K m M 2 b " i Q m b H 2 b
2 i 2 M p 2`im /2 b [m 2 H H 2 b H 2 b K K 2 b`T T Q
i Q m b +2 b ~ m B /2 b 2 Mi`2 H 2 p Q H m K 2- H 7
i 2 K T û`im`2 X

S m B b [m 2 /2 m t ; x /B z û`2 Mi b- T`B b " H
i m`2 2 i b Q m b H K K 2 T`2 b b B Q M- /Q B p 2 Mi
+Q K K 2 H ö m i`2 / M b H 2 b K K 2 b +B`+Q M b
7 Bi b m # B`" i Q m b /2 m t H 2 b Q T û`i B Q M b
B H b /2 p`Q M i /Q M M 2`M B b b M+2 " /2 b [m M
K Qi`B+2 û ; H 2 b X P`+2 H b m T T Q b 2- /ö T

7QM/ K2Mi H2 [m2 MQmb pQMb ûi #HB2- Hö
[m MiBiûb û; H2b /2 + HQ`B[m2- +ö2bi@`@/B
H [m MiBiû /2 + HQ`B[m2 T bbû2 /m +Q`Tb
H K K2- bQBi[m2 HöQM QT `2 bm` HömM /2b
QT `2 bm` Hö mi`2X

G [m MiBiû /2 + HQ`B[m2 T bbû2 /m +Q`Tb
" 2bi ûpB/2KK2Mi +2HH2 [mB 2bi #bQ`#û2 T
bQM 2ti2MbBQM /2 pQHmK2- Qm +2HH2 [m2
2Mbmbi2 T `H +QKT`2bbBQMX LQmb bQKK2
ûi #HB`H T`QTQbBiBQM bmBp Mi2~ ,

GQ`b[mömm ; x T bb2- b Mb +? M;2` /2 i2
/ömm pQHmK2 2i /ömm2 T`2bbBQM /ûi2`KBI
pQHmK2 2i " mM2 mi`2 T`2bbBQM û; H2K2Mi
[m MiBiû /2 + HQ`B[m2 #bQ`#û2 Qm # M/QM
H K K2- [m2HH2 [m2 bQBi H M im`2 /m ; x -
bmD2i /ö2tXû`B2M+2

aQBi- T `2t2KTH2- mM HBi`2 /ö B` " H i
Ryyê 2i bQmb H T`2bbBQM mM2 iKQbT? `2~
H2 pQHmK2 /2 +2i B` 2i [möQM p2mBHH2 H
i2KTû` im`2 Ryyê- BH 7 mi Hmb 7Qm`MB` mM
/2 +? H2m`X P` +2ii2 [m MiBiû b2` T`û+Bbû
bB- m HB2m /öQTû`2` bm` Hö B`- QM QT `2
+ `#QMB[m2- bm` Hö xQi2- bm` Hö?v/`Q; M2
/ö2 m- /ö H+QQH- +ö2bi@`@/B`2 bB HöQM /C
HBi`2 /2 +2b ; x T`Bb " H i2KTû` im`2 Ryyê
T`2bbBQM iKQbT?û`B[m2X

AH 2M b2` Bi /2 K K2- / Mb mM b2Mb BMp2`
/2 /Qm#H2` H2 pQHmK2 /2b ; x- QM H2`û/mBb
H +QKT`2bbBQMX

j9 a /B * `MQiX_R320BQM b b m` H T m B b b M + 2 K Q

G [m MiBiû /2 +? H2m` [m2 H2b ~mB/2
; ;2Mi Qm #bQ`#2Mi / Mb H2m`b +? M;2K
Mö D K Bb ûiû K2bm`û2 T ` m+mM2 2tT
2tTû`B2M+2 [mB Qz`B` Bi b Mb /Qmi2 /2 ;`
K Bb BH 2tBbi2 mM2 /QMMû2 [mB 2bi ` T2
TQm` MQmb` , +2ii2 /QMMû2 ûiû 7Qm`M
/m bQM`c 2HH2 Kû`Bi2 #2 m+QmT /2 +QM
H `B;m2m` /2b +QM b B /û` iBQM b T ` H2b[n
` Höûi #HB`X oQB+B 2M [mQB 2HH2 +QM b

Gö B` iKQbT?û`B[m2 /QBi böûH2p2` /
HQ`b[möBH ûT`Qmp2 T ` H +QKT`2bbBQM
/2 pQHmK2 /2 ~~R~~fRRe

G2b 2tTû`B2M+2b b m` H pBi2bb2 /m bQ
/ Mb Hö B` bQmb H T`2bbBQM dey KBHHB
H i2KTû` im`2 eê- +ö2bi b2mH2K2Mi` +2b
[m2 /QBi b2` TTQ`i2` MQi`2 /QMMû2X LQr
+2T2M/ Mi TQm` THmb /2 7 +BHBiû ` H i2K
/Bz `2 T2mX

Gö B` +QKT`BKû /2 RfRRe- 2i ûH2pû T `
7 `2 /2 Hö B` û+? mzû /B`2+i2K2Mi /2 iê [m
G2 pQHmK2 T`BKBiB7 ûi Mi b mTTQbû o-
RfRRe H2`û/mBi ` o RfRRe oX

R~~X~~JX SQBbbQM- ` [mB +2ii2 /QMMû2 2bi /m2-
bö ++Q`/2 bb2x #B2M p2+ H2`ûbmHi i /ö mM2 ;
*HûK2Mi 2i .ûbQ`K2b b m` H `2Mi`û2 /2 Hö B` / Mb
/ Mb Hö B` mM T2m` `û}ûX 1HH2 bö ++Q`/2 mbbE
p2+ +2`i BM`ûbmHi i i`Qmpû T ` JJX : v@Gmbb +
H MQi2 T ;X 8NXV

Göû+? mz2K2Mi /B`2+i bQmb T`2bbBQM +
 /ö T` b H ` ;H2 /2 JX : v@Gmbb +- m;K2Mi2
 /2 Hö B` /2 Rfked /2 +2 [möBH b2` Bi " yê~ ,
 /ömm2 T `i`û/mBi m pQHmK2 o~ RfRRe~ o~ c
 2bi TQ`iû " o~Y~Rfked~oX

G /Bzû`2M+2 2Mi`2 H2b [m MiBiûb /2 +? H2
 Hö B` / Mb Hömm 2i Hö mi`2 + b 2bi ûpB/2KK
 2KTHQvû2 " HöûH2p2` /B`2+i2K2Mi /2 Rê~ ,
 [m MiBiû /2 +? H2m` [m2 Hö B` #bQ`#2` Bi
 pQHmK2 o~ RfRee~o m pQHmK2 o~Y~Rfked~c
 " +2HH2 [mB 2bi Mû+2bb B`2 TQm` HöûH2p2`

AK ;BMQM b K BMi2M Mi [mö m HB2m /öû+?
 bQmKBb " mM2 T`2bbBQM +QMbi Mi2 2i TQR
 HB#`2K2Mi- QM H2`2M72`K2 / Mb mM2 + T +
 2i [mö2M +2i ûi i- QM Hmb 7 bb2 +[mû`B` Rê
 Gö B` BMbB û+? mzû /2 Rê M2 /Bzû`2` /2 H
 /2 RfRRe [m2 T ` bQM pQHmK2 THmb ;` M/ /2
 bB /QM+ H [m MiBiû /2 +? H2m` [m2 Hö B`
 T ` mM2 `û/m+iBQM /2 pQHmK2 /2 RfRRe 2bi
 [möBH 2tB;2` Bi TQm` böûH2p2` /2 Rê +2MiB
 +QMbi MiX *QKK2 H2b /Bzû`2M+2b 2Mi`2 H2
 RfRRe o- o- 2i o Y Rfked o- bQM i T2iBi2b `2i

mt pQHmK2b 2mt@K K2b- QM T2mi`2; `/2`
 /2 +? H2m` #bQ`#û2b T ` Hö B`- 2M T bb M
 /2 +2b pQHmK2b m b2+QM/- 2i /m T`2KB2`
 +QKK2 b2MbB#H2K2Mi T`QTQ`iBQMM2HH2b
 pQHmK2~ , HöQM b2 i`Qmp2 /QM+ +QM/mBi " û
 bmBp Mi2~ ,

je a /B * `MQiX_R320BQM b bm` H TmBbb M+2 KQ

G [m MiBiû /2 +? H2m` Mû+2bb B`2 TQ
Hö B` bQmb T`2bbBQM +QMbi Mi2 2bi` H
Mû+2bb B`2 TQm` ûH2p2` /2 Rê H2 K K2
+QMbi Mi- / Mb H2` TTQ`i /2b MQK#`2b

RfRRe Y Rfked` RfRRe

Qm #B2M 2M KmHiBTHB Mi /2 T`i 2i /ö mi`
H2` TTQ`i /2b MQK#`2b ked Y RRe` kedX

*ö2bi /QM+ H` H2` TTQ`i [mB 2tBbi2 2M
Hö B` TQm` H +? H2m` bQmb T`2bbBQM +
bQmb pQHmK2 +QMbi MiX aB H T`2KB`2 /
2bi 2tT`BKû2 T` HömMBiû- Hö mi`2 b2` 2t
kedfUkedYRReV Qm` T2m T` b y-dyy`c H
y-dyy Qm y-jyy 2tT`BK2` ûpB/2KK2Mi H
+? H2m` /2biBMû2` T`Q/mB`2 Hö m;K2Mi
Hö B` HQ`b[möBH 2bi û+? mzû /2 Rê bQmb

.ö T` b H HQB /2 JJX : v@Gmbb + 2i .
m;K2Mi iBQM /2 pQHmK2 b2` Bi H K K2
mi`2b ; x`c /ö T` b H2 i?ûQ` K2 /ûKQMi`
+? H2m` #bQ`#û2 T` /2b m;K2Mi iBQM b
2bi H K K2 TQm` iQmb H2b ~mB/2b ûH biB
/QM+ +QM/mBib` ûi #HB` H T`QTQbBiBQ

G /Bzû`2M+2 2Mi`2 H +? H2m` bTû+B}[
+QMbi Mi2 2i H +? H2m` bTû+B}[m2 bQmb
H K K2 TQm` iQmb H2b ; x

AH 7 mi`2K`[m2` B+B [m2 iQmb H2b ;
T`Bb bQmb H K K2 T`2bbBQM- H T`2bb
T` 2t2KTH2- 2i [mö2M Qmi`2 H2b +? H2m
K2bm`û2b T` TTQ`i mt pQHmK2bX

_B2M M2 MQmb 2bi THmb Bbû K B Mi2M Mi
 mM2 i #H2 /2b +? H2m`b bTû+B}[m2b /2b ; x
 +QMbi Mi- /ö T` b H +QMM Bbb M+2 /2 H2m
 +B}[m2b bQmb T`2bbBQM +QMbi Mi2X LQmb T
 i #H2- /QM i H T`2KB `2 +QHQQMM2 2bi H2 `û
 `B2M+2b /B`2+i2b /2 JJX .2H `Q+?2 2i"û` `/- b
 bTû+B}[m2 /2b ; x bQmKBb " H T`2bbBQM iK
 /QM i H b2+QM/2 +QHQQMM2 2bi +QKTQbû2 /2
 T`2KB `2 /BKBMmûb /2 y-jyyX

h #H2 /2 H +? H2m` bTû+B}[m2 /2b ; x

| | | |
|------------------|---|--------------------------------|
| LPJa .1a : wX | *? HX bTû+X bQmb T`2bbBQM +QMbi Mi2X | HX bTû+X bQmb HX bTû+X bQmb |
| B` iKQbT?û | B[m2 | R-yyy y-dyy |
| : x ?v/`Q; M2 | | y-Nyj y-eyj |
| +B/2 + `#QM | B[m2 | R-k83 y-N83 |
| Ptv; M2 | | y-Nde y-edde |
| xQi2 | | R-yyy y-dyy |
| S`QiQtv/2 /ö | xQi2 | R-j8y R-y8y |
| : x QHû} Mi | | R-88j R-k8j |
| Ptv/2 /2 + `#QM2 | | R-yj9 y-dj9 |

G2b MQK#`2b /2 H T`2KB `2 +QHQQMM2 2i+2r
 bQM i B+B` TTQ`iûb " H K K2 mMBiû- " H +?
 /2 Hö B` iKQbT?û`B[m2 bQmb T`2bbBQM +QM
 G /Bzû`2M+2 2Mi`2 +? [m2 MQK#`2 /2 H T
 HQMM2 2i H2 MQK#`2 +Q`2bTQM/ Mi /2 H

j3 a /B * `MQiX_R320BQM b b m` H T m B b b M+2 K Q

+QMbi Mi2- H2 ` TTQ`i 2Mi`2 +2b MQK#`
`B #H2~ , BMbB- H2 ` TTQ`i 2Mi`2 H +?
; x bQmb T`2bbBQM +QMbi Mi2 2i H +? H
pQHmK2 +QMbi Mi p `B2 HQ`b[möQM T bb2
LQmb pQM b p m [m2 Hö B`- HQ`b[möBH
T`2bbBQM b m#Bi2 /2 RfRRe /2 bQM pQHmK
mi`2b ; x T ` m M2 +QKT`2bbBQM b2K#H #
m b b B /2 i2KTû` i m`2~ , BHb /QBp2Mi böûH
û; H2K2Mi 2M` BbQM B Mp2`b2 /2 H2m` +?
pQHmK2 +QMbi MiX 1M 2z2i- H `û/m+iBQ
T ` ?vTQi? b2 iQmDQm`b H K K2- H [m
/m2 " +2ii2`û/m+iBQM /QBi i`2 m b b B iQm
T ` +QM b û[m2Mi /QBi T`Q/mB`2 m M2 ûHûp
/ûT2M/ Mi2 b2mH2K2Mi /2 H +? H2m` bTû
H2 ; x T ` b b +QKT`2bbBQM- 2i ûpB/2KK
p2`b2 /2 +2ii2 +? H2m` bTû+B}[m2X AH MQ
7Q`K2`H i #H2 /2b ûHûp iBQM b /2 i2KTû`
; x- TQm` m M2 +QKT`2bbBQM /2 RfRReX
G pQB+B~ ,

h #H2 m /2 HöûHûp iBQM /2 i2KTû` i m`2 /
/2 H +QKT`2bbBQM

| | |
|-------------------|---|
| LPJa .1a : wX | úHûp iBQM /2 i2KTX TQm mM2 `û/m+iX /2 pQHmK2 / RfRReX |
| B` iKQbT?û`B[m2 | R-yyy |
| : x?v/`Q; M2 | R-Rey |
| +B/2 + `#QMB[m2 | y-djy |
| PtB; M2 | R-yj8 |
| xQi2 | R-yyy |
| S`QiQtB/2 /ö xQi2 | y-eed |
| : x QHû} Mi | y-883 |
| PtB/2 /2 + `#QM2 | y-N88 |

IM2 MQmp2HH2 +QKT`2bbBQM /2 RfRRe U/n
 ûH p2` Bi2M+Q`2- +QKK2 QMH2 p2`` #B2Mi-
 /2 +2b; x /ömm2 [m MiBiû "T2mT` b û; H2 " H
 K Bb BH Mö2M b2` Bi T b /2 K K2 /ömm2 i`Q
 [m i`B K2- /ömm2 +2MiB K2 +QKT`2bbBQM T
 +Biû /2b; x TQm` H +? H2m` +? M;2 p2+ H2
 2bi i` b@TQbbB#H2 [mö2HH2 +? M;2 mbbB

LQmb HHQMb K B Mi2M Mi /û/mB`2 /2 H T
 Mû` H2 ûMQM+û2 T ;X j3- mM b2+QM/i?ûQ` K
 +QKTHûK2Mi " +2HmB [mB pB2Mi /ö i`2 /ûKQM

AK ;BMQMb [m2 H2 ; x `2M72`Kû / Mb H +
 /`B[m2+U};X kv bQBii` MbTQ`iû /öMö+ö /ö T +
 U};X jv- /öû; H2 ? mi2m`- K Bb /2 # b2 /Bzû`
 ûi2M/m2~, +2 ; x m;K2Mi2` /2 pQHmK2- /B
 /2MbBiû 2i /2 7Q`+2 ûH biB[m2 / Mb H2` TT
 /2mt pQHm#K2b ö#XöZömi " H T`2bbBQM iQi

9y a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

2t2`+û2 bm` +? [m/2 T B 2iH2 b2` H K K2
T`i2i/ö mi`2- + `H bm`7 +2 /2 +2b TBbi
/B`2+i2 /2b pQHmK2bX

amTTQbQM b [m2 HöQM 2tû+mi2 bm` H2
ö#ö+H 2b QTû` iBQM b /û+`Bi2b T ;X jN-
+2Mbû2b 7 Bi2b bm` H2 ;#x-/ 2 M272i`@ ü@2/B
bmTTQbQM b [m2 HöQM+/Q/K2 M K Qm T B K 2Q/Mb
û; mt 2M KTHBim/2 " +2 m/t [mö Qb H Qm B 7
Q++mT2` bm++2bbBp2 K+2MöQ H 2 b TTQbB / BQ D
" +/ 2 2ö7Q` 2bTQM/2 M22b m ö2M K K2 i2KT
QM 7 bb2 bm#B` m ; x- T `H2 KQv2M /2b
"- H2b K K2b p `B iBQM b /2 i2KTû` im`2
ûi Bi`2M72`#K/ 2Mö2zQ`iiQi H 2t2`+û bm`
b2 i`Qmp2` i`2- / Mb H2b /2mt + b- iQm
mt BMbi Mb +Q` 2bTQM/ MbX *2H `ûbm
H HQB /2 J^R B, QIM22z2i H2b /2MbBiûb /2b
+QM b2`p Mi iQmDQm`b 2Mi`2 2HH2b H2b

R XG HQB /2 J `BQii2- bm` H [m2HH2 MQmb MQmb 7
MQi`2 /ûKQMbi` iBQM- 2bi m M2 /2b HQBb T?vbB[m2
1HH2 b2`pB /2 # b2 " THmbB2m`b i?ûQ`B2b pû`B}
[mB pû`B}2Mi " H2m` iQm` H2b HQBb bm` H2b[m2H
T2mi+Bi2` 2M+Q`2 +QKK2 pû`B}+ iBQM T`û+B2mb
2i mbbB /2 +2HH2 /2 JJX : v@Gmbb + 2i . HiQM-
BMi2`p HH2 /2 i2KTû` im`2- H2b 2tTû`B2M+2b /2 J
UoQ~~WM~~ H2b /2 T?vbB[m2- 2tûp` B2B RB 23- iQK2 d-
RkkXV PM T2mi+Bi2` 2M+Q`2 /2b 2tTû`B2M+2b T
. pv 2i 6 ` / vX

G2b i?ûQ` K2b [m2 MQmb /û/mBbQM b B+B M2 b2
2t +ib bB QM H2b TTHB[m Bi?Q`b /2 +2`i BM2b H
bQBi /2 i2KTû` im`2~, BHb M2 /QBp2Mi i`2`2; `û

/2b TQbBiBQMb b2K#H #H2b /2b TBbiQMb- 2
 ûi Mi iQmDQm`b û; H2b /2 T `i 2i /ö mi`2- H
 iQi H2b 2t2`+û2b bm` H2b TBbiQMb +QMb2`
 K K2` TTQ`i 2Mi`2 2HH2bX aB +2` TTQ`i 2b
 [m2H+QM[m2- +2HmB /öû; HBiû- H2b T`2bbB
 û; H2bX

*QKK2 /ö BHH2m`b H2b KQmp2K2Mib /2b /2
 /2b KTHBim/2b û; H2b- H TmBbb M+2 KQi`
 T `i 2i /ö mi`2 b2` ûpB/2KK2Mi H K K2` , /
 /QBi +QM+Hm`2- /ö T` b H T`QTQbBiBQM /2
 H2b [m MiBiûb /2 +? H2m` 2KTHQvû2b /2 T `i
 H2b K K2b- +ö2bi@`@/B`2 [möBH T bb2 /m +
 H K K2 [m MiBiû /2 +? H2m` / Mb H2b /2mt +

G +? H2m` 2KT`mMiû2 m +Q`Tb 2i`2M/m
 Mö2bi mi`2 +?Qb2 [m2 H +? H2m` #bQ`#û2 T
 /m ; x 2i /û; ;û2 2MbmBi2 T `b +QKT`2bb
 bQKK2b /QM+ +QM/mBib `ûi #HB` H2i?ûQ` K

GQ`b[mömm ~mB/2 ûH biB[m2 T bb2 b Mb +
 Tû` im`2 /m pQHmK2 l m pQHmK2 o- 2i [mö
 [m MiBiû TQM/û` #H2 /m K K2 ; x T bb2 bQr
 i2KTû` im`2 /m pQHmK2 lö m pQHmK2 oö- bB
 lö " oö b2 i`Qmp2 H2 K K2 [m2 H2` TTQ`i /2
 [m MiBiûb /2 +? H2m` #bQ`#û2b Qm /û; ;û2
 Hö mi`2 + b b2`QMi û;XH2b 2Mi`2 2HH2b

*2i?ûQ` K2 T2mi i`2 ûMQM+û /ömm2 mi`2
 pQB+B` ,

/ Mb H2b HBKBi2b QM H2b HQBb /2 J `BQii2 2i /2 JJX
 . HiQM bQMi 2HH2b@K K2b +QMbi iû2bX

9k a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

GQ`b[mömm ; x p `B2 /2 pQHmK2 b Mb
Tû`im`2- H2b [m MiBiûb /2 +? H2m` #bQ
T` +2 ; x bQM i 2M T`Q ;`2bbBQM `Bi?KûiB
b2K2Mib Qm H2b `û/m+iBQMb /2 pQHmK2
T`Q ;`2bbBQM ;XQKûi`B[m2

GQ`b[m2 HöQM +QKT`BK2 mM HBi`2 /ö
i2KTû`im`2 Ryê- 2i [möQM H2 `û/mBi`
/û ; ;2 mM2 +2`i BM2 [m MiBiû /2 +? H2m`
b2 i`Qmp2` iQmDQm`b H K K2 bB HöQM`
pQHmK2 /2 Rfk HBi`2` Rf9 /2 HBi`2- /2 Rf
BMbB /2 bmBi2X

aB m HB2m /2 +QKT`BK2` Hö B`QM H2 T
` k HBi`2b- 9 HBi`2b- 3 HBi`X- 2i+X- BH 7
[m MiBiûb /2 +? H2m` iQmDQm`b û ; H2b
i2KTû`im`2 m K K2 /2 ;`ûX

*2+B`2M/ 7 +BH2K2Mi` BbQM /2 H i2K
H [m2HH2 T`pB2Mi Hö B`T`mM2 +QKT`2
[m2 +2ii2 i2KTû`im`2 bm{i TQm` 2M~ KK2
K K2 TQm` [m2 Hö B` /2pB2MM2 HmKBM2
TQm` mM BMbi Mi H +? H2m` bTû+B}[m2
K H ;`û H2b +? M ;2K2Mib /2 pQHmK2 2i /2
i2KTû`im`2 +`QWi` 2M T`Q ;`2bbBQM `Bi
`û/m+iBQMb /2 pQHmK2 2M T`Q ;`2bbBQM ;
i Mi /2 +2ii2 /QMMû2- 2i /K2ii Mi[mömm /2
/ Mb H i2KTû`im`2 +Q`2bTQM/` mM2 +
RfRRe- QM ``Bp2` 7 +BH2K2Mi` +QM+H

" RfR9 /2 bQM pQHmK2 T`BKBiB7 /QBi böûH2p
 /2;`ûbm{b MiTQm`2M~ ^{R2}KK2`HöK /Qm
 GöûHûp iBQM /2 i2KTû`im`2 /QBi i`2 ûpB
 +Q`2THmb+QMbB/û`#H2bBH +T +Biû /2H
 /2pB2Mi KQBM/`2 " K2bm`2 [m2 bQM pQHmK2
 +ö2bi +2 [mB 2bi T`ûbmK #H2- 2i +ö2bi K K2
 `ûbmHi2`/2b 2tTû`B2M+2b /2 JJX .2H `Q+?22
 + HQ`B[m2 bTû+B}[m2 /2 Hö B`T`Bb " /Bp2`b2

^{R3}XGQ`b[m2 H2 pQHmK2 2bi `û/mBi /2 RfRRe- +ö2bi@
 /2pB2Mi RR8fRRe /2 +2 [möBH ûi Bi /ö #Q`/- H i2KT
 /2 R /2;`ûX
 IM2 MQmp2HH2`û/m+iBQM /2 RfRRe TQ`i2 H2 pQHm
 H i2KTû`im`2 /QBi böûH2p2`/ömm MQmp2 m /2;`ûX
 T`h`û/m+iBQMb T`2BH2b- H2 pQHmK2 /2pB2Mi
 i2KTû`im`2 /QBi bö it2ûH2pX2 /2
 aB HöQM TQb2 ~~4RRR8fRRe~~ ^{4RRR8fRRe}im2 HöQM T`2MM2 H2b HQ;
 /2 T`i2i /ö mi`2- QMi`Qmp2

t 4 jyyê 2MpB`QMX

aB HöQM TQb2 ~~4RRR8fRRe~~ ^{4RRR8fRRe}im2

t 4 3yêX

*2 [mB KQMi`2 [m2 Hö B`+QKT`BKû /2 KQBiBû böûH p
 hQmi +2+B 2bi bm#Q`/QMMû " Hö?vTQi? b2 [m2 H +
 /2 Hö B`M2 +? M;2 T b [mQB[m2 H2 pQHmK2 /BKBMm2
 H2b`BbQMb 2tTQbû2b +B@ T`b T ;2b 83 2i eR- QM
 bTû+B}[m2 /2 Hö B`+QKT`BKû /2 KQBiBû +QKK2`û/mB
 /2 dyy " eRe- BH 7 mi KmHiBTHB2`H2 MQK#`2 3yê T`
 TQ`i2 " NyêX

H2 JûKQB`2 BKT`BMM M2bH/2b+i?BKB 38-
T ;X dk- kk9XV

G2b /2mt i?ûQ` K2b ûMQM+ûb T ;X 9R
}b2Mi TQm` +QKT `2` 2Mi`2 2HH2b H2b [m
#bQ`#û2b Qm /û; ;û2b / Mb H2b +? M;2K2I
~mB/2b ûH biB[m2b- [m2HH2b [m2 bQB2Mi
H M im`2 +?BKB[m2 /2 +2b ~mB/2b- TQm`
bQB2Mi iQmb T`Bb 2i K BMi2Mmb " mM2 +2
BMP `B #H2- K Bb +2bi?ûQ` K2b M2 7Qm`I
/2 +QKT `2` 2Mi`2 2HH2b H2b [m MiBiûb /
Qm #bQ`#û2b T ` /2b ~mB/2b ûH biB[m2b
pQHmK2 " /2bi2KTû` im`2b /Bzû`2Mi2bX E
[m2H` TTQ`i 2tBbi2 2Mi`2 H +? H2m` /û;
/ö B` `û/mBi " KQBiBû- H i2KTû` im`2 ûi
yê- 2i H +? H2m` /û; ;û2 T ` H2 K K2 HBi`
KQBiBû- H i2KTû` im`2 ûi MiK BMi2Mm2 "
b M+2 /2 +2` TTQ`i 2bi HBû2 " +2HH2 /2 H
/2b ; x " /Bp2`b /2;`ûb /2 i2KTû` im`2- 2i
mi`2b /QMMû2b [m2 H T?vbB[m2 +im2H
7Qm`MB`X

G2 b2+QM/ /2 MQb i?ûQ` K2b MQmb Qz
+QMM Wi`2 bmBp Mi [m2HH2 HQB p `B2 H
; x p2+ H2m` /2MbBiûX

/K2iiQMb [m2 H2b QTû` iBQMb /û+`Bi2
/2 bö2tû+mi2` p2+ /2mt +Q`Tb - "- /QMi H
/Bz `2Mi 2Mi`2 2HH2b /ömM2 [m MiBiû BM}
+mi2Mi p2+ /2mt +Q`Tb /QMi H2b i2KTû`
2Mi`2 2HH2b /ömM2 [m MiBiû }MB2- /2 Rê
mM +2`+H2 +QKTH2i /öQTû` iBQMb H2 +Q`

$\hat{u}H \text{ bi}B[m^2 m M^2 + 2^i B M^2 [m \text{ Mi}Bi\hat{u} / 2 + ? H^2 m$
 $/BpBb\hat{u}^2 2M / 2mt TQ^i BQM b^{\sim}, R\hat{e} + 2HH^2 [mB^2$
 $K B M^2 MB^{\sim} H^i 2KT\hat{u}^{\sim} im^{\sim} / m \sim mB / 2^{\sim} m M / 2$
 $T^2 M / Mi H^i / BH^i i BQM^{\sim} c k\hat{e} + 2HH^2 [mB^2 bi$
 $7 B^{\sim} 2^{\sim} 2p^2 MB^{\sim} H^2 \sim mB / 2 / 2 H^i 2KT\hat{u}^{\sim} im^{\sim} / r$
 $i 2KT\hat{u}^{\sim} im^{\sim} / m + Q^{\sim} T b^{\sim} - HQ^{\sim} b[m^2 T^{\sim} b^{\sim} pQB$
 $\sim mB / 2^{\sim} bQM pQHmK^2 T^{\sim} BKBiB7 - QM H^2^{\sim} 2K^2$
 $H^2 + Q^{\sim} T b^{\sim} X LQmK^2 M^2 KB^{\sim} 2 / 2 + 2b [M \text{ Mi}Bi\hat{u}b -$
 $H^b 2 + QM / 2^{\sim}, H^2 + HQ^{\sim} B[m^2 iQi H^7 Qm^{\sim} MB T$
 $2tT^{\sim} BK\hat{u} TY^{\sim} X$

$G^2 + HQ^{\sim} B[m^2 i^{\sim} MbKBb T^{\sim} H^2 \sim mB / 2^{\sim} m -$
 $m b b B^b 2 / BpBb^2^{\sim} 2M / 2mt \# \ddot{o} / B^2 b^{\sim} m, H\ddot{o}mM$
 $^{\sim} 27^{\sim} QB / Bbb^2 K^2 Mi / m ; x T^{\sim} H^2 \ddot{o} + [Q^{\sim} T^{\sim} H^2 - H\ddot{o} r$
 $; x \# M / QMM^2 T^{\sim} H\ddot{o} 2 z^2 i / 2 b^{\sim} \hat{u} / m + i BQM / 2$
 $bQKK^2 / 2 + 2b / 2mt [m \text{ Mi}B\ddot{o}c b^2 H^2 / QB i^{\sim} 2$
 $\hat{u}; H^2 Y^{\sim} \# +^{\sim} T^{\sim} b m M + 2^{\sim} + H^2 + QKTH^2 i / \ddot{o} QT$
 $H^2 ; x 2bi^{\sim} K^2 M\hat{u} B / 2 MiB[m^2 K^2 Mi^{\sim} bQM \hat{u} i^{\sim}$
 $/ ? + \hat{u} / 2^{\sim} iQmi H^2 + HQ^{\sim} B[m^2 [mB HmB^{\sim} p Bi / \ddot{o}$
 $LQmb^{\sim} pQM b / QM +$

$Y \# 4 \quad \ddot{o} Y \# \ddot{o}$

$Qm \# B^2 M$

$\ddot{o} 4 \# \ddot{o} \quad \# X$

$P^{\sim} - / \ddot{o} T^{\sim} b H^2 i^? \hat{u} Q^{\sim} K^2 \hat{u} MQM + \hat{u} T ; X 8k - H^2$
 $2i \ddot{o} bQM i BM / \hat{u} T^2 M / Mi^2 b / 2 H^i / 2 MbBi\hat{u} / m ;$
 $iQmi 27 QBb [m^2 H^i [m \text{ Mi}Bi\hat{u} TQM / \hat{u}^{\sim} \# H^2^{\sim} 2b$
 $[m^2 H^2 b p^{\sim} B^i BQM b / 2 pQHmK^2 bQB^2 Mi T^{\sim} Q$

pQHmK2 T`BKBiB7X G /B/QB2M2+KTHB` H
 K K2b +QM/BiBQMb- 2i T ` +QMbû[m2 Mi m
 # [mB HmB 2bi û#öH2iXH2 B bHQ`B[m2 Mû+
 TQm` ûH2p2` /ömM /2;`û H2#+X}2MKZ~Kû
 #öbi H2 + HQ`B[m2 # M/QMMû T` H2; x-
 2M#27BH b2`27`QB/Bi /2 R /2;`û~c +2b [m
 b2`pB` /2 K2bm`2 mt +? H2m`b bTû+B}[m
 /QM+ +QM/mBib "ûi #HB` H T`QTQbBiBQ
 G2 +? M;2K2Mi QTû`û / Mb H +? H2m`
 ; x T` bmBi2 /ömM +? M;2K2Mi /2 pQHm
 [m2K2Mi /m` TTQ`i 2Mi`2 H2 pQHmK2 T`B
 p` Æŭö2bi@`@/B`2 [m2 H /Bzû`2M+2/2b +
 M2 /ûT2M/ T b /2 H ;` M/2m` #bQHm2 /2b
 b2mH2K2Mi /2 H2m` ` TTQ`iX
 *2ii2 T`QTQbBiBQM T2mi i`2 ûMQM+û2
 MB `2 [m2 pQB+B~,
 GQ`b[mömm ; x m;K2Mi2 /2 pQHmK2 ;
 ;ûQKûi`B[m2- b +? H2m` bTû+B}[m2 bö +-
 `Bi?KûB[m2
 BMbBi Mi H +? H2m` bTû+B}[m2 /2 Hö
 /2MbBiû /QMMû2H2#? H2m` bTû+B}[m2 T
 /2MbBiû KQBiBû KQBM/`2- 2HH2 b2` - TQ
 m [m`iY K~c TQm` mM2 /2MbBiû û; H2 m
 Y j?~c BMbB /2 bmBi2X
 G2b +? H2m`b bTû+B}[m2b bQMi B+B` T
 1HH2b bQMi bmTTQbû2b T`Bb2b bQmb pQH
 BMbB [möQM p H2 pQB`- 2HH2b bmBp` B
 ûi B2Mi T`Bb2b bQmb T`2bbbBQM +QMbi M

§ [m2HH2 + mb2 2bi /m2 2M 2z2i H /Bzû`2
 +? H2m`b bTû+B}{m2b T`Bb2b bQmb pQHmK2
 T`2bbBQM +QMbi Mi2~\ m + HQ`B[m2 Mû+2
 /mB`2 / Mb H2 b2+QM/ + b Hö m;K2Mi iBQM
 /ö T` b H HQB /2 J`BQii2- Hö m;K2Mi iBQM
 ; x /QBi i`2- TQm`mM +? M;2K2Mi /QMMû /2 i
 mM2 7` +iBQM /ûi2`KBMû2 /m pQHmK2 T`BKE
 BM/ûT2M/ Mi2 /2 H T`2bbBQMX .ö T` b H2 i?
 T ;X 8k- bB H2` TTQ`i 2Mi`2 H2 pQHmK2 T`BK
 p`Bû 2bi /QMMû- H +? H2m` Mû+2bb B`2 TQ
 K2Mi iBQM /2 pQHmK2 2bi T`@H` /ûi2`KBMû
 mMB[m2K2Mi /2 +2` TTQ`i 2i /2 H [m MiBiû T
 ; xX AH 7 mi /QM+ +QM+Hm`2 [m2~ ,

G /Bzû`2M+2 2Mi`2 H +? H2m` bTû+B}{m2
 +QMbi Mi2 2i H +? H2m` bTû+B}{m2 bQmb pQ
 iQmDQm`b H K K2- [m2HH2 [m2 bQBi H /2Mb
 [m2 H [m MiBiû TQM/û` #X12`2bi2 H K K2

*2b +? H2m`b bTû+B}{m2b m;K2Mi2Mi iQ
 K2bm`2 [m2 H /2MbBiû /m ; x /BKBMm2- K Bb
 M2 p`B2^{RN}X b

R XJJX : v@Gmbb + 2i q2Hi2` QMi i`Qmpû- T` /2b 2t
 /B`2+i2b +Biû2bû+MbHm2 +2ûH2Mi2 H2M H2b /2
 T?vbB[m2 2i /2 D mBKHB2i R3kk- TX ked- [m2 H2` TTQ
 +? H2m` bTû+B}{m2 bQmb T`2bbBQM +QMbi Mi2 2i H
 bQmb pQHmK2 +QMbi Mi p`B2i` b@T2m p2+ H /2Mb
 +2 [m2 HöQM pB2Mi /2 pQB`- +ö2bi H /Bzû`2M+2 [mB /
 2i MQM H2` TTQ`iX *QKK2 /ö BHH2m`b H +? H2m` b
 TQm`mM TQB/b /QMMû- p`B2i` b@T2m p2+ H /2MbB
 [m2 H2` TTQ`i MöûT`Qmp2 HmB@K K2 [m2 /2 T2iBib +

S m B b [m 2 H /B z û` 2 M +2 2 M i` 2 H 2 b /2 m
 H +? H 2 m` 2 b i +Q M b i M i 2 - b B H ö m M 2 b ö
 `B i ? K û i B [m 2 - H ö m i` 2 /Q B i b m B p` 2 m M 2
 # H # H 2 ~ , B M b B M Q i` 2 H Q B 2 b i T T H B + #
 + B } [m 2 b T` B b 2 b b Q m b T` 2 b b B Q M + Q M b i M
 L Q m b p Q M b b m T T Q b û i + B i 2 K 2 M i H ö m
 +? H 2 m` b T û + B } [m 2 p 2 + + 2 H H 2 /m p Q H m k
 i B Q M` û b m H i 2 /2 b 2 t T û` B 2 M +2 b /2 J J X . 2 H
 2 M 2 z 2 i - + 2 b T ? v b B + B 2 M i b Q M i i` Q m p û y -
 b T û + B } [m 2 /2 H ö B` b Q m b H T` 2 b b B Q M
 U p Q v 2 x H 2 J û K Q B` 2 /û D` + B i û V - 2 M T` 2 M
 +? H 2 m` b T û + B } [m 2 /m K K 2 T Q B /b /ö B`
 y - d e y K i` 2 b X

. ö T` b H H Q B [m 2 b m B p 2 M i H 2 b +? H 2
 ` T T Q` i m t T` 2 b b B Q M b - B H b m { i /2 H 2 b p
 /2 m t + b T` i B + m H B 2` b - T Q m` H 2 b + Q M + H
 T Q b b B # H 2 b ~ , + ö 2 b i B M b B [m ö 2 M 7 B b
 /ö 2 t T û` B 2 M +2 /2 J J X . 2 H ` Q +? 2 2 i " û` ` / - [

G 2` T T Q` i 2 M i` 2 H +? H 2 m` b T û + B } [m 2 /2 H ö B`
 T` 2 b b B Q M + Q M b i M i 2 2 i b Q m b p Q H m K 2 + Q M b i M i
 G m b b + 2 i q 2 H i 2` - R - j d 9 3 - M Q K #` 2 " T 2 m T` b + Q M
 H 2 b T` 2 b b B Q M b 2 i K K 2 T Q m` i Q m i 2 b H 2 b i 2 K T û`
 T` p 2 M m b - T` /ö m i` 2 b + Q M b B /û` i B Q M b - m M Q K
 R - 9 9 - [m B 2 M /B z` 2 R f k y /2 - 2 i M Q m b M Q m b b Q
 M Q K #` 2 T Q m` /` 2 b b 2` m M 2 i # H 2 /2 b +? H 2 m` b b T û
 p Q H m K 2 + Q M b i M i ~ , B M b B B H M 2 7 m i T b + Q M b B
 # B 2 M 2 t + i 2 - M Q M T H m b [m 2 H i # H 2 /Q M M û 2 T ; >
 /2 b i B M û 2 b T` B M + B T H 2 K 2 M i` K 2 i i` 2 2 M û p B /2 M +2
 +? H 2 m` b b T û + B } [m 2 b /2 b ~ m B /2 b û` B 7 Q` K 2 b X

`TTQ`iû- MQmb pQMb /`2bbû H i #H2 bmBp
bTû+B}[m2b /2 Hö B` bQmb /Bp2`b2b T`2bbBQ

| | *? HX bTû+X +2HH2 /2 S`2bbBQM Hö B` bQmb iKQbT?`2T`X2bbBQM iKQbX ûi Mi RX | *? HX bTû+X +2HH2 /2 S`2bbBQM Hö B` bQmb iKQbT?`2T`X2bbBQM iKQbX ûi Mi RX | |
|--------|--|--|-------|
| RfRyk9 | R-39y | R | R-yyy |
| Rf8Rk | R-d8e | k | y-NRe |
| Rfk8e | R-edk | 9 | y-3jk |
| RfRk3 | R-833 | 3 | y-d93 |
| Rfe9 | R-8y9 | Re | y-ee9 |
| Rfjk | R-9ky | jk | y-83y |
| RfRe | R-jje | e9 | y-9Ne |
| Rf3 | R-k8k | Rk3 | y-9Rk |
| Rf9 | R-Re8 | k8e | y-jk3 |
| Rfk | R-y39 | 8Rk | y-k99 |
| R | R-yyy | Ryk9 | y-Rey |

G T`2KB`2 +QHQQMM2 2bi- +QKK2 QM pQBi-
;ûQKûi`B[m2- 2i H b2+QM/2 mM2 T`Q;`2bbBQ
LQmb pQMb ûi2M/m H i #H2 Dmb[mö"/2b
2i/2b``û7 +iBQMb 2ti` K2bX AH 2bi" +`QB`2
/ö +[mû`B` mM2 /2MbBiû Ryk9 7QBb b /2MbB
"@/B`2 p Mi /2 /2p2MB` THmb /2Mb2 [m2 H
HB[mû}ûX G2b +? H2m`b bTû+B}[m2b bö MM

8y a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

/2pB2M/` B2Mi Mû; iBp2b 2MT`QHQM;2 M
/2`MB2`i2`K2XLQmb T2MbQMbm`2bi2 [r
b2+QM/2 +QHQM M2 /û+`QBbb2Mi B+B 2MT
G2b 2tTû`B2M+2b [mB b2`p2Mi /2 # b2 " M
7 Bi2b / Mb /2b HBKBi2b i`QT`2bb2``û2b`
bö ii2M/`2 " mM2;` M/2 Dmbi2bb2 / Mb H2b
pQMbm Q#i2Mmb- bm`iQmi / Mb H2b MQK#`
SmBb[m2 MQmb +QMM BbbQMbm /ömm2
H [m2HH2H +? H2m` b2 /û; ;2T`H +QKT
/2 Hö mi`2H HQBbmBp Mi H [m2HH2p`B
p2+H2pQHmK2- BHMQmb b2` 7 +BH2 /2
K2Mib /2 i2KTû` im`2 /ömm; x[m2 HöQM +
H Bbb2` T2`/`2 /2 + HQ`B[m2X 1M 2z2i H
i`2 +2Mbû2 /û+QKTQbû2 2M /2mt QTû` iB
Rê +QKT`2bbBQM " i2KTû` im`2 +QMbi Mi2
+ HQ`B[m2 ûKBbX G i2KTû` im`2 böûH p2
QTû` iBQM 2M` BbQM Bmp2`b2 /2H +? H2
T`H2; x- T` b b `û/m+iBQM /2 pQHmK2-
[m2 MQmb b pQMbm + H+mH2` m KQv2M /2
+B@/2bbmbX G +? H2m` /û; ;û2T`H +
/ö T` b H2 i?ûQ` K2 /2H T;X 8k- i`2`2
mm2 2tT`2bbBQMbm/2 HY 7 BQK 2û
+? H2m`H2 pQHmK2 /m; x T` b H +QKT`2b
/2b +QMbi Mi2b `#Bi` B`2b /ûT2M/ Mi2b /
/m; x- /2b T`2bbBQM 2i /2b mMBiûb /QM
G +? H2m` bTû+B}[m2- p`B Mi p2+H2
HQB /ûKQMi`û2 iQmi " Hö?2m`2- /QBi i`2`
2tT`2bbBQM /2xH 7 Q`KQ; pö 2i "ö ûi Mi
/2b +QMbi Mi2b `#Bi` B`2b /Bzû`2Mi2b /2

Gö ++`QBbb2K2Mi /2 i2KTû` im`2 +[mBb T
Hö2z2i /2 H +QKT`2bbbBQM 2bi T`~~Q~~TMQ`iBQMM
Qm m` TTQ`iVH~~U~~Q,Vpf UäY"VHQ,VX AH T2mi
i`2`2T`ûb2Miû T` +2` TTQ`i HmB@K K2`
MQKK iMIMQmb m`QM~~Y~~"M~~H~~Q,Vpf UäY"V
HQ,VX aB pQHmK2 T`BKBiB7 /m ; x 2bi R 2i H
T`BKBiBp2 yê HöQMi 4mý-H"QH4p7 Q~~B~~bQ M
4 yX2tT`BK2` HQ`b MQM b2mH2K2Mi Hö ++
i2KTû` im`2- K Bb H i2KTû` im`2 2HH2@K K
xû`Q i?2`KQKûi`B[m2X

AH M2 7 m/` Bi T b +QMbB/û`2` H 7Q`Kr
p2MQMb /2 /QMM2` +QKK2 TTHB+ #H2 " /2
+? M;2K2Mib /2 pQHmK2 /2b ; xX LQmb pQ
HöûHûp iBQM /2 i2KTû` im`2 +QKK2 ûi Mi 2M
/2 H +? H2m` bTû+B}[m2`c +2 [mB bmTTQb
H +? H2m` bTû+B}[m2 +QMbi Mi2 " iQmi2b H
.2 ;` M/b +? M;2K2Mib /2 pQHmK2 2Mi` WM
; x /2 ;` M/b +? M;2K2Mib /2 i2KTû` im`2- 2i
MQmb T`Qmp2 H +QMbi M+2 /2 H +? H2m` b
/2;`ûb- bm`iQmi " /2b /2;`ûb 7Q`i ûHQB;Mû
mi`2bX *2ii2 +QMbi M+2 Mö2bi [mömM2 ?v
TQm` H2b ; x T` M HQ;B2- pû`B}û2 T bb #H
+Q`Tb bQHB/2b 2i HB[mB/2b / Mb mM2 +2`i
Höû+?2HH2 i?2`KQKûi`B[m2- K Bb /QMi H2b
JJX .mHQM; 2i S2iBi QMi 7 Bi pQB`HöBM2t +
p2mi Höûi2M/`2 " /2b i2KTû` im`2b ^{ky}Q`i m@/2

^{ky}XGöQM M2 pQBi T b /2` BbQM~~TT~~Q~~H~~`B+/QMbi 2M+2
/2 H +? H2m` bTû+B}[m2 /2b +Q`Tb " /Bp2`b2b i2KTû

8k a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

/B`2 TQm` /K2ii`2 [m2 /2b [m MiBiûb û; H2b /2 +?
/2b ++`QBbb2K2Mib û; mt / Mb H2 /2;`û i?2`KQKû
[m M/ K K2 +2 +Q`Tb M2 +? M;2` Bi MB /öûi i MB /2
+2 b2` Bi- T `2t2KTH2- mM ~mB/2 ûH biB[m2`2M72
BM2ti2MbB#H2X .2b 2tTû`B2M+2b /B`2+i2b bm` /2b
p B2Mi T`Qmpû [mö2Mi`2 yê 2i Ryyê- /2b ++`QBb
H2b [m MiBiûb /2 +? H2m` T`Q/mBb B2Mi /2b +
T` b û; mt / Mb H2b /2;`ûb /2 i2KTû` im`2`c K Bb
THmb`û+2Mi2b /2 JJX .mHQM;M2M \$22Bi/2+QBXB2
2i /2 T?vbB[ûp2B2`- K`b 2i p`BH R3R3V QMi 7 Bi
+Q`2bTQM/ M+2 M2 b2 bQmi2M Bi THmb` /2b i2
/2bbmb /2 Ryyê- bQBi [m2 +2b i2KTû` im`2b 7mb
H2 i?2`KQK i`2 " K2`+m`2- bQBi [mö2HH2b 7mbb
i?2`KQK i`2 " B`X

LQM b2mH2K2Mi H2b +? H2m`b bTû+B}[m2b M2`
mt /Bp2`b2b i2KTû` im`2b- K Bb 2M Qmi`2 2HH2b
2Mi`2 2HH2b H2b K K2b` TTQ`ib`c /2 bQ`i2 [mö
KQKûi`B[m2 M2 TQm`` Bi ûi #HB`H +QMbi M+2 /2
bTû+B}[m2b`H 7QBbX AH 2?i ûiû BMiû`2bb Mi /2
B`û;mH`Biûb bm#bBbi2Mi TQm` H2b bm#bi M+2b
Tû`B2M+2b T`ûb2Mi B2Mi B+B /2b /B{+mHiûb T`2b
G2b B`û;mH`Biûb /2b +? H2m`b bTû+B}[m2b /2
` B2Mi i`2 ii`B#mû2b- +2 MQmb b2K#H2-` /2 H`
THQvû2` T`Q/mB`2 mM +QKK2M+2K2Mi /2 7mbBQ
[mB b2 7 Bi b2MiB` / Mb H THmT`i /2 +2b +Q`Tb
H 7mbBQM +QKTH i2X PM T2mi TTmv2` +2ii2 QT
bmBp Mi2~, /ö T` b H2b 2tTû`B2M+2b K K2b /2 JJX
Hö ++`QBbb2K2Mi /2 +? H2m` bTû+B}[m2 p2+ H
` TB/2 / Mb H2b bQHB/2b [m2 / Mb H2b HB[mB/2b- [
/ömM2 /BH i #BHBiû THmb +QMbB/û` #H2X G + mk
p2MQMb /2 bB;M H2`- bB 2HH2 2bi`û2HH2- /BbT`
H2b ; xX

.ö T` b m M2 H Q B / m 2 " J J X * H û K 2 M i 2 i . 0
 H Q B û i # H B 2 T ` H p Q B 2 / 2 H ö 2 t T û ` B 2 M + 2 /
 / ö 2 m - b Q m b [m 2 H [m 2 T ` 2 b b B Q M [m ö 2 H H 2 b C
 i Q m D Q m ` b - " T Q B / b û ; m t - H K K 2 [m M i B i û /
 [m B ` 2 p B 2 M i " / B ` 2 [m 2 H p T 2 m ` + Q K T ` B K û 2
 + M B [m 2 K 2 M i b M b T 2 ` i 2 / 2 + ? H 2 m ` b 2 ` i Q m
 " b i m ` i B Q M / 2 H ö 2 b T + 2 - b B 2 H H 2 2 b i T ` B
 + Q M b i B i m û 2 X G p T 2 m ` / ö 2 m B M b B + Q M b i B
 ` 2 ; ` / û 2 + Q K K 2 m M ; x T 2 ` K M 2 M i ~ c 2 H H 2 / Q B
 i Q m i 2 b H 2 b H Q B b X S ` + Q M b û [m 2 M i H 7 Q ` K m

i 4 U Y " V H Q Y p U ä Y " V H Q Y p

/ Q B i H m B i ` 2 T T H B + # H 2 - 2 i b 2 i ` Q m p 2 ` 2 M
 H i # H 2 / 2 b i 2 M b B Q M b ` û b m H i M i 2 / 2 b 2 t T û ` B
 J X . H i Q M X

P M T 2 m i b ö b b m ` 2 ` 2 M 2 z 2 i [m 2 M Q i ` 2 7
 m M 2 / û i 2 ` K B M i B Q M + Q M p 2 M # H 2 / 2 b + Q M b i
 ` 2 T ` û b 2 M i 2 / ö m M 2 K M B ` 2 7 Q ` i T T ` Q + ? û 2 H
 H ö 2 t T û ` B 2 M + 2 X G 2 b T 2 i B i 2 b M Q K H B 2 b [m
 + Q M i ` 2 ` M ö 2 t + / 2 M i T b + 2 H H 2 b [m B / Q B p 2 M
 ` B b Q M M # H 2 K 2 M i m t 2 ` ` 2 ~~k R~~ b / ö Q # b 2 ` p i B Q

~~k R~~ S Q m ` / û i 2 ` K B M 2 ` H 2 b + Q M b i M i 2 b ` # B i ` B ` 2 b - "-
 / 2 b ` û b m H i i b + ? Q B b B b / M b H i # H 2 / 2 J X . H i Q M - B H
 T ` + H + m H 2 ` H 2 p Q H m K 2 / 2 H p T 2 m ` / ö T ` b b T
 i 2 K T û ` i m ` 2 - + 2 [m B 2 b i + ? Q b 2 7 + B H 2 m K Q v 2 M / 2 b
 2 i / 2 J X : v @ G m b b + - H [m M i B i û T Q M / û ` # H 2 / 2 H
 / ö B H H 2 m ` b } t û 2 X

G 2 p Q H m K 2 b 2 ` / Q M M û T ` H ö û [m i B Q M

p4 +Uke dMT-

/ Mb H [mp2bH 2-2 pQHmK2KTû` iTh 2T`2bbBQM- 2
 +mM2 [m MiBiû +QMbi Mi2 /ûT2M/ Mi2 /m TQB/b /2
 mMBiûb /QMi QM 7 Bi +?QBtX
 oQB+B H i #H2 /2b pQHmK2b Q++mTûb T` mM
 7Q`Kû2 " /Bp2`b2b i2KTû` im`2b- 2i T` +QMbiû[m
 T`2bbBQMb~,
 i~, /2;`ûb +2MiB;` /2bX
 T, i2MbBQM /2 H p T2m` 2tT`BKû2 2M KBHHBK
 p~, pQHmK2 /ömM ;` KK2 /2 p T2m`- 2tT`BKû 2M

| i | T | p |
|------|---------|--------|
| yê | 8-yey | R38-yy |
| kyê | Rd-jky | 83-ky |
| 9yê | 8j-yyy | ky-9y |
| eyê | R99-eyy | d-Ne |
| 3yê | j8k-Ryy | j-9d |
| Ryyê | dey-yyy | R-dy |

G2b /2mt T`2KB `2b +QHQM2b /2 +2hî2Bi#H2 bQM
 S?vbB[2X "BQi UR2` pQHx T ;X kdk 2i 8jRVX G
 + H+mHû2 m KQv2M /2 H 7Q`KmH2 +B@/2bbmb
 /ö2tTû`B2M+2 [m2 Hö2 m p TQ`Bbû2 bQmb H T`
 Q++mT2 mM 2bT +2 Rdy 7QBb mbB ;` M/ [mö` H
 1M 7 Bb Mi mb ;2 /2 i`QBb MQK#`2b /2 H T`2KB
 i`QBb MQK#`2b +Q`2bTQM/ Mb /2 H i`QBbB K2 +C
 7 +BH2K2Mi H2b +QMbi Mi2b /2 MQi`2 û[m iBQM

i 4 UY" HQ;YpUY"ö HQXp

LQmb Mö2Mi`2`QMb T b / Mb H2b /ûi BHb /m + H
 /ûi2`KBM2` +2b [m MiBiûb~, BH MQmb bm{` /2 /E
 bmBp Mi2b~,

LQmb`2pB2M/`QMb B+B " MQi`2 bmd2iT`B
 MQmb bQKK2b /ûD" i`QT û+ `iûb- " H TmBbb
 H +? H2m`X

LQmb vQMb 7 Bi pQB` [m2 H [m MiBiû /2 T
 i`B+2 /ûp2HQTTû2 T `H2i` MbTQ`i /m + HQ`E
 mM mi`2 /ûT2M/ Bi 2bb2MiB2HH2K2Mi /2b i2
 /2mt +Q`Tb- K Bb MQmb Mö pQMb T b 7 Bi +G
 iBQM 2Mi`2 +2b i2KTû` im`2b 2i H2b [m MiBi
 KQi`B+2 T`Q/mBi2bX AH b2K#H2` Bi /ö #Q`/
 bmTTQb2` [m2 TQm` /2b /Bzû`2M+2b û; H2b
 H2b [m MiBiûb /2 TmBbb M+2 KQi`B+2 T`Q/m
 2Mi`2 2HH2b- +ö2bi@" @/B`2 [m2- T `2t2KTH
 [m MiBiû /QMMû2 /2 + HQ`B[m2 /ömm +Q`Tb
 Ryyê " mM +Q`Tb " K Bmi2Mm " 8yê /QBi /QMI
 " mM2 [m MiBiû /2 TmBbb M+2 KQi`B+2 û; H
 b2` Bi /ûp2HQTTû2 T `H2i` MbTQ`i /m K K2 +

4 kke3- ö 4 RN-e9-
 " 4 @ Ryyy- "ö 4 j-jy-

b iBb7QMi T bb #H2K2Mi #B2M mt +QM/BiBQMb T`2b
 Höû[m iBQM

i 4 Ukke3 Ryyf URN-e9Hfyp

2tT`BK2 /ömm2 K MB `2i` b@ TT`Q+?û2 H `2H iBQM
 pQHmK2 /2 H p T2m`2ib i2KTû` im`2X

PM`2K` [m2` B+B [m2 H [m MiBiû "ö2biTQbBiBp2 2
 [mBi2M/ " +QM}`K2` +2ii2 T`QTQbBiBQM- [m2 H +? H2
 ~mB/2 ûH biB [m2 +`QWi p2+ H2 pQHmK2- K Bb bmBp
 T2m` TB/2X

8 e a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

+Q`Tb " K BMi2Mm " 8yê " mM +Q`Tb * K BM
T `2BHH2 HQB b2` Bi b Mb /Qmi2 7Q`i`2H
M2 pQBi T b /2 KQiB7b bm{b Mb T`BQ`@Hö
`X LQmb HHQMb /Bb+mi2` b `û HBiû T `
`B;Qm`2mtX AK ;BMQMb [m2 H2b QTû` iB
bQB2Mi 2tû+miû2b bm++2bbBp2K2Mi bm`
iKQbT?û`B[m2 û; H2b 2M TQB/b 2i 2M pQ
" /2b i2KTû` im`2b /Bzû`2Mi2b~c bmTTQb
/Bzû`2M+2b /2 /2;`û 2Mi`2 +2b +Q`Tb 2
T `i 2i /ö mi`2~ , BMbB +2b +Q`Tb m`QM
/ Mb HömM /2b + b- H2b i2KTû` i?`2b Ryy
ûi Mi BM}MBK2Mi T2iBiV- 2i / Mb?XG mi`2
[m MiBiû /2 TmBbb M+2 KQi`B+2 T`Q/mBi2
H /Bzû`2M+2 2Mi`2 +2HH2 [m2 7Qm`MBi H
+2HH2 /QMi BH Mû+2bbBi2 Hö2KTHQB TQ
T`BKBiB7X P` +2ii2 /Bzû`2M+2 2bi B+B- +
bbm`2` T `mM` BbQMM2K2Mi bBKTH2 [m
T b Mû+2bb B`2 /2 /ûi BHH2`- H K K2 / M
+ b~ , BMbB H TmBbb M+2 KQi`B+2 T`Q/r
*QKT`QMb K BMi2M Mi 2Mi`2 2HH2b H
+? H2m` 2KTHQvû2b / Mb H2b /2mt + bX
H [m MiBiû /2 +? H2m` 2KTHQvû2 2bi +2
7Qm`MBi " Hö B` TQm` H2 K BMi2MB`
Ryyê T2M/ Mi bQM 2tT MbBQM~c / Mb H2
[m MiBiû /2 +? H2m` [m2 +2 K K2 +Q`Tb /QE
K BMi2MB` b i2KTû` im`2 " Rê T2M/ Mi n
/2 pQHmK2 #bQHmK2Mi b2K#H #H2X aB
/2 +? H2m` ûi B2Mi û; H2b 2Mi`2 2HH2b
ûpB/2KK2Mi H HQB [m2 MQmb pQMb /ö #

`B2M M2 T`Qmp2 [möBH 2M bQBi BMbB~c QM
 +2b [m MiBiûb /2 +? H2m` bQMi BMû; H2bX
 Gö B`- [m2 MQmb bmTTQb2`QMb /ö #Q`/ Q
 #+/U};X kV 2i b2 i`Qmp2` " H i2KTû` im`2
 i`2 K2Mû2 " Q++mT2#2Hö2`bT+H2û`B` H
 i2KTû` im`2 Ryyê T` /2mt KQv2Mb /Bzû`2Mib
 RôM T2mi Höû+? mz2` /ö #Q`/ b Mb 7 B`2 p
 HmK2- TmBb H2 /BH i2` 2M K BMi2M Mi b
 mM /2;`û +QMbi Mi~c
 kôM T2mi +QKK2M+2` T` H2 /BH i2`- 2M K
 +QMbi M+2 /2 H i2KTû` im`2- TmBb Höû+?
 +[mBb bQM MQmp2 m pQHmK2X
 aQB2Mi#H2b [m MiBiûb /2 +? H2m` 2KTHQvû2b
 K2Mi / Mb H T`2KB `2 /2b /2mt Q#ô2i iBQMbi-
 öH2b [m MiBiûb /2 +? H2m` 2KTHQvû2b bm++
 H b2+QM/2~c +QKK2H2`ûb mHi i}M H /2 +2b
 2bi H2 K K2- H2b [m MiBiûb /2 +? H2m` 2KTHQ
 /ö mi`2 /QBp2Mi i`2 û; H2b~, HöQM /QM+

Y # 4 ö Y #ö-
 /öQM ö 4 # #öX

ö2bi H [m MiBiû /2 +? H2m` Mû+2bb B`2 TQ
 H2 ; x /2 Rê " Ryyê- HQ`b[möBô2Q++mT2 Hö2
 2bi H [m MiBiû /2 +? H2m` Mû+2bb B`2 TQ
 H2 ; x /2 Rê " Ryyê- HQ`b[möBô2Q++mT2 Hö2
 G /2MbBiû /2 Hö B` 2bi KQBM/`2 / Mb H2
 [m2 / Mb H2 b2+QM/- 2i /ö T` b H2b 2tTû`B2
 .2H`Q+?2 2i "û` `` /ûD" +Biû2b T ;2 ey- b +
 H +? H2m` /QBi i`2 mM T2m THmb ;` M/2X

G [m MiBiû2 i`Qmp Mi i`2 THmb ;` M/2
 [m MiBiû/QBi i`2 THmb ;#XMS/ [m QMbû[m2M
 2M ;ûMû` HBb Mi H T`QTQbBiBQM- MQmb
 G [m MiBiû /2 +? H2m` /m2 m +? M;2K
 /ömM ; x 2bi /ö mi Mi THmb +QMbB/û` #H2
 2bi THmbXûH2pû2

BMbB- T ` 2t2KTH2- BH 7 mi THmb /2
 K BMi2MB` " Ryyê H i2KTû` im`2 /ömM2 +
 /ö B` /QMi QM /Qm#H2 H2 pQHmK2- [m2 T
 H i2KTû` im`2 /2 +2 K K2 B` T2M/ Mi m
 #bQHmK2Mi T `2BHH2X

*2b [m MiBiûb BMû; H2b /2 +? H2m` T`C
 / Mi- +QKK2 MQmb Hö pQMb pm- /2b [m Mi
 b M+2 KQi`B+2 TQm` /2b +?mi2b û; H2b /r
 " /Bzû`2Mi2b ? mi2m`b bm` Höû+?2HH2 i?2
 HöQM T2mi iB`2` H +QM+HmbBQM bmBp M

G +?mi2 /m + HQ`B[m2 T`Q/mBi THmb /2
 / Mb H2b /2;`ûb BM7û`B2m`b [m2 / Mb H2b

BMbB- mM2 [m MiBiû /QMMû2 /2 +? H2m
 /2 TmBbb M+2 KQi`B+2 2M T bb Mi /ömM +
 " mM mi`2 K BMi2Mm " yê- [m2 bB +2b /2r
 TQbbû/û H2b /2;`ûb RyRê 2i RyyêX

.m`2bi2- H /Bzû`2M+2 /QBi i`2 7Q`i T2
 MmHH2 bB H + T +Biû /2 Hö B` TQm` H
 +QMbi Mi2- K H;`û H2b +? M;2K2Mib /2 /2
 2tTû`B2M+2b /2 JJX .2H `Q+?2 2i "û` `/-
 p `B2 T2m- bB T2m K K2- [m2 H2b /Bzû`2
 TQm`` B2Mi " H `B;m2m` i`2 ii`B#mû2

/öQ#b2`p iBQM- Qm "[m2H[m2b +B`+QMbi M.
Mû;HB;û /2 i2MB` +QKTi2X

LQmb bQKK2b ?Q`b /öûi i /2 /ûi2`KBM2` `
K2Mi- p2+ H2b b2mH2b /QMMû2b 2tTû`BK2
TQbbû/QMb- H HQB bmBp Mi H [m2HH2 p `B
i`B+2 /2 H +? H2m` / Mb H2b /Bzû`2Mib /2;`
i?2`KQKûi`B[m2X *2ii2 HQB 2bi HBû2 " +2HH
/2 H +? H2m` bTû+B}[m2 /2b ; x "[Bp2`b2b i

ey a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

HQB [m2 Hö2tTû`B2M+2 Mö T b 2M+Q`2 7
bm{b Mi2 2t +iBim/2X

kXaB HöQM /K2ii Bi H +QMbi M+2 /2 H +? H2m
; x HQ`b[m2 bQM pQHmK2 M2 +? M;2 T b- K Bb [r
p `B2- Hö M Hvb2 TQm`` Bi +QM/mB`2 " mM2`2H
KQi`B+2 2iH2 /2;`ûi?2`KQKûi`B[m2X LQmb HHQM
K MB`2- +2H MQmb /QMM2` /ö BHH2m`b Q++ bB
[m2H[m2b mM2b /2b T`QTQbBiBQMb ûi #HB2b +B@
2M H M; ;2 H;û#`B[m2X

aQBH [m MiBiû /2 TmBbb M+2 KQi`B+2 T`Q/mBi
/ö mM2 [m MiBiû /QMMû2 /ö B` T bb Mi /m pQHmK2
pHBi`2b- bQmb i2KTû` im`2 +QM2Mi22` HbBm MiBi
BM}MBK2M/p-2iB;22Mi2` /2 H [m MiBiû/ö T`b H
M im`2 /2 H TmBbb M+2 KQi`B+2- b2` /p;2H2` Hö
pQHmK2 KmHiBTHBû T`H 7Q`+2 2tT MbBp2 [m2
ûH biB[m2T+2iQ27Q`+2 2tT MbBp2- QM m` Höû[m

/` 4 T/pX X X URVX

amTTQbQMb H i2KTû` im`2 +QMbi Mi2 bQmb H [m
û; H2/2;`ûb +2MiB;` /2b~, bH HöQM MQKK2biB[m2
Hö B` Q++mT Mi H2 pQHmK2 mM HBiï2QM K-K2 i2
/ö T`b H HQB /2 J`BQi2-

p i [T- /öQM [fpX

aB K BMi2M Mi S 2bi H 7Q`+2 ûH biB[m2 /2 +2 K
iQmDQm`b H2 pQHmK2 R- K Bb " H i2KTû` im`2 y
H `;H2 /2 JX: v@Gmbb +-

[4 S Y Sfkd Sfkd Uki/dY
/ö Q[Mp4 T4 SfkdVUUXpVX

aB- TQm` #`û;2`- HöQM MQKKS2kb dH H[onû [Mi B BQ M
/2pB2M/`~, ,

T4 L U i M ke d p W -

/ö Q M H ö Q M i B`2- /ö T` b H ö û [m i B Q M U R V-

/` 4 L U i M ke d p W /p X

_2; `/Q M b Q K K 2 + Q M b i M i- 2 i T`2 M Q M b H ö B M i û;` H 2
K 2 K #`2 b- M Q m b m`Q M b

` 4 L U Y ke d H V Q ;Y p * X

a B H ö Q M b m 4 T y T i Q Q 2 b p 4 n B - Q M m` * 4 y ~ c

/ö Q`M L U Y ke d H V Q ;X p X X U k V X

* ö 2 b i H` H T m B b b M + 2 K Q i`B + 2 T`Q /m B i 2 T` H ö 2 t T M
b Q m b H i 2 K T i û` T m b 2 û /m p Q H m K 2 R p X m p Q H m K 2

a B- m H B 2 m /ö Q T û`2` " i H Q i Q K T T`2 m ö 2 n M 2 K M B`2
b Q H m K 2 M i b 2 K # H # H 2 " i H Y /i i 2 K T T m i b b 2 M + 2 /û p 2 @
H Q T T û 2 b 2`

` Y ` 4 L U Y /i Y ke d H V Q X p

_2 i` M + ? M i H ö û [m i B Q M U k V- B H p B 2 M i

` 4 L H Q ; p X X X U j V

a Q B i H [m M i B i û /2 + ? H 2 m` 2 K T H Q v û 2 " K B M i 2 M B` H
/m ; x " m M /2;`û + Q M b i M i T 2 M / M i b /B H i i B Q M ~ ,
` B b Q M M 2 K 2 M i /2 H`b 2 ;2 H y T m B b b M + 2 /û p 2 H Q T T û 2 T
+ ? m i 2 /2 H [n 2 /M i B i û H 2 m` /m Y 2 ;`m /2; i X a B M Q m b
M Q K K Q m b T m B b b M + 2 K Q i`B + 2 /û p 2 H Q T T û 2 T` H + ? m
/2 + ? H 2 m` /m /2 ;2 û y ê - + Q K K 2 - /ö T` b H 2 T` B M + B T 2
û i # H B T ;X j 3 - + 2 i i a /Q m B i M i B T 2 M /`2 m M B [-m 2 H K 2 M i /2
T Q m` i` 2`2 T`û b 2 M i û 2 T i- /H Q T Q M X i B Q M 6

G Q`b [r b 2 ++`Q W i 2 i /2 p i B-2 M p B 2 m Y /-m /ö Q M ~ ,

ek a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

m Y / 6UY /V

_2i` M+? Mi Höû[m iBQM T`û+û/2Mi2- BH pB2Mi

/m4 6UY /V 6i 4 6ö iX/iX

*ö2bi ûpB/2KK2Mi H` H [m MiBiû /2 TmBbb M+2 K
H +?mi2 /ömm2 mMBiû /2 +?Y Hi2m /2mX2;`û

aB H [m MiBiû /2 +? H2m`- m HB2m /2- b2 mM2
TmBbb M+2 KQi`B+2 T`Q/mBi2 m` Bi2m TQm` p H

2/m4 26äX/X X X U9VX

J B2/m2bi H K K2 +?Q52 [Q2i2b /2mt bQMi H TmB
/ûp2HQTtû2 T` H +?mi22//2 H ?[H2MiB/iû X2/îû
m /2;îû, T` +QMbû[m2Mi-

2/m 4 `~c

2i- " + mb2 /2b û[m iBQMbj- 9-

26äX/4 L H Q; pX/i

Qm- /BpBb MX 6ö

2 4 Uf6öMH Q;4ph H Q; p

2M MQKK Mi h H Lf6öV[QNB 2bi mM2 7Qb2miBQM /2
Göû[m iBQM~,

2 4 hH Q; p

2bi Hö2tT`2bbBQM M HviB[m2 /2 H HQB ûMQM+û2
+QKKmM2`iQmb H2b ; x- TmBb[m2 H2b HQBb /QM i MQ
bQM i +QKKmM2b`iQmbX

aB HöQM M QK i2 MiBiû /2 +? H2m` Mû+2bb B`2 TQm
Hö B`bm` H2[m2H MQmb pQR2i Q2Tû`û2Kñû`Q Hm X 2
yê m pQR2i K`2H i2KTû`i-iH`2Bzû`2M b2i2M2`2
H [m MiBiû /2 +? H2m` Mû+2bb B`2 TQm` R2M2` Hö B
/m /2 ;`û y b2` mM2 7QM+iBQM, [Qñ Hm QM[m2 /2

b4 2Y l 4 h HQ;YpIX

aB HöQM /Bzû`2M+B2 +2ii2 û[mi b2QM-T2i [m2TQôQ`M
`2T`ûb2Miñ2öTifö H2b +Q2{+B2Mib /Bzû22MiBñHb /2
pB2M/`

/bf/i4 hōHQ;Yplö X X X U8VX

/bf/iMö2bi mi`2 +?Qb2 [m2 H +? H2m` bTû+B}[m2 /m ;
+QMbi Mi- 2i MQi`2 û[mi iBQM URV 2bi Hö2tT`2bbBQM
ûMQM+û2 T ;X 83X

aB HöQM bmTTQb2 H +? H2m` bTû+B}[m2 +QMbi
i2KTû` im`2b U?vTQi? b2 /Bb+miû2 +B@/2bbmb T ;X
/bf/ib2` BM/ûT2M/i`Mi2i/2 }M /2 b iBb7 B`2` Höû[m i
U8V TQm` /2mt p H2m`b TX`Bñ+bm2HBM Qb2H2iB`2 [m2
lö bQB2Mi BM/ûT2iMM Qmb/2m`QM b /QM+ hö 4 * - [m Mi
+QMbi Mi2X JmHiB`THB/iM2ihT`2iM Mi HöB Miû ;` H2 /2 T
2i /ö mi`2- QM i`Qmp2` ,

h 4 *i Y *~c

K Bb +QKK2Lñ65QM

6 ä 4 Lfh 4 LfU iY* V

e9 a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

JmHiBTHB Mi /2 T `i 2Viö2mB MiT;` Mi- BH pB2Mi

6i 4 Ulf*VHQjY *RV Y *k c

Qm- 2M +? M;2 Mi /2 +QMbi Mi2b `#Bi` B`2b- 2i`2
[m2i2bi MmH HiQ`p2

6i 4 HQ; URfYVW X~X~XUeVX

G M im`2 /2 H 7Qm2+i`BQmp2` Bi BMbB /ûi2`KBMû2
p2`` Bi T`@H` 2M ûi i /öûp Hm2` H TmBbb M+2 KQ
mM2 +?mi2 [m2H+QM[m2 /2 H +? H2m`X J Bb +2ii
2bi 7QM/û2 bm` Hö?vTQi? b2 /2 H +QMbi M+2 /2
/ömm; x [mB M2 +? M;2 T b /2 pQHmK2- ?vTQi? b2
Mö T b 2M+Q`2 bb2x #B2M pû`B}û Hö2t +iBim/
T`2mp2- MQi`2 û[m iBQM UeV K2T2mi i`2 /KBb2[r
Kû/BQ+`2 /2 Höû+?2HH2 i?2`KQKûi`B[m2X
. Mb Höû[m iBQM U8V- H2 T`2KB2` K2K#`2`2T`û
Hö pQMb`2K `[mû- H +? H2m` bTû+B}[m2 /2 Hö B
pX Gö2tTû`B2M+2 v Mi TT`Bb [m2 +2ii2 +? H2m` p
+? M;2K2Mib bb2x +QMbB/û` #H2b /2 pQHmK2- BH
hö /2HQ;bpQBi mM2 [m MiBiû 7Q`i T2iBi2X aB QM H
[mö T` b pQB` KmH HötûH BûiBQM

hö 4 y -

QM 2M T`2MM2 HöB Miû;` H2- QM i`Qmp2

h 4 * [m MiBiû +QMbi Mi2~c
K Bb h 4f6öä
/öQM 6üfh 4 Lf* 4 ~c

/öQM HöQM iB`2 2M}M- T `mM2 b2+QM/2 B Miû;` iE

LQmb +?2`+?2`QMb B+B " ûp Hm2` /ömM2K
 TmBbb M+2 KQi`B+2 /2 H +? H2m`~c 2i }M /
 T`QTQbBiBQM 7QM/ K2Mi H2- }M /2 pû`B}2
 2M ¾mp`2 TQm` `û HBb2` H TmBbb M+2 KQi`
 BM/Bzû`2Mi- `2H iBp2K2Mi " H [m MiBiû /2 +
 MQmb 2M +?QBbB`QMb bm++2bbBp2K2Mi TH
 bT?û`B[m2- H p T2m` /ö2 m- H p T2m` /ö H+
 amTTQbQMb [m2 HöQM 2KTHQB2 /ö #Q`/
 `B[m2- HöQTû` iBQM b2 +QM/mB` /ö T` b H
 T ;X jNX LQmb 72`QMb H2b ?vTQi? b2b bmBp
 Gö B` 2bi T`Bb bQmb H T`2bbBQM iKQb
 i2KTû` im`2 /m +Q`Tb 2bi mMKBHHB K2 /2 /2
 /2 yê- +2HH2 /m +Q`Tb " 2bi yêX G /Bzû`2M+1
 pQBi 7Q`i T2iBi2- +B`+QMbi M+2 Mû+2bb B`2
 Gö ++`QBbb2K2Mi /2 pQHmK2 /QMMû " Hö
 QTû` iBQM b2` RfRReYRfked /m pQHmK2 T`B
 ++`QBbb2K2Mi 7Q`i T2iBi- #bQHmK2Mi T`H
 `2H iBp2K2Mi " H /Bzû`2M+2 /2b i2KTû` im
 +Q`Tb 2i "X

6i 4 i Y "X

*QKK2i@ y - HQ`b 4my2- " 2bi MmH~, BMbB

6i 4 i -

+ö2bi@`@/B`2 [m2 H TmBbb M+2 KQi`B+2 T`Q/mBi2
 2t +i2K2Mi T`QTQ`iBQMM2HH2 " H +?mi2 /m + HQ`E
 i` /m+iBQM M HviB[m2 /2 +2 [m2 MQmb pQMb /Bi T ;2

ee a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

G TmBbb M+2 KQi`B+2 /ûp2HQT Tû2 T
/2mt QTû` iBQM b /û+`Bi2b T ;X jNX b2` -
T`QTQ`iBQMM2HH2 " Hö ++`QBbb2K2Mi /
`2M+2 2Mi`2 H2b /2mt T`2bbBQM b 2t2`+û2
b2 i`Qmp2 mt i2KTû` im`2b yê-yyR 2i yêX
2bi- /ö T` b H ` ;H2 /2 JX : v@Gmbb +- Rf
H 7Q`+2 ûH biB[m2 /m ; x- Qm " i` b@T2m
/2 H T`2bbBQM iKQbT?û`B[m2X

G T`2bbBQM iKQbT?û`B[m2 7 Bi û[mB
Ry K i`2b 9fRyy /2 ? mi2m` /ö2 m~c Rfk
/2 +2ii2 T`2bbBQM û[mBp mi " Rfkedyyy X
? mi2m` /ö2 mX

Zm Mi " Hö ++`QBbb2K2Mi /2 pQHmK2-
bBiBQM- RfRReYRfked /m pQHmK2 T`BKE
pQHmK2 Q++mTû T ` mM FBHQ;` KK2 /ö B
" y-dd K i`2b +m#2b- 2m û; ` / " H T2b Mi2r
Hö B`~ , BMbB /QM+ H2 T`Q/mBi

URfRReYRfkedV~ y-dd ~Rfkedyyy~ Ry

2tT`BK2` H TmBbb M+2 KQi`B+2 /ûp2H
b M+2 2bi 2biBKû2 B+B 2M K i`2b +m#2b
K i`2 /2 ? mi2m`X

aB HöQM 2tû+mi2 H2b KmHiBTHB+ iBQM
TQm` p H2m` /m T`Q/mBi y-yyyyyyjdkX

*?2`+?QM b K BMi2M Mi " ûp Hm2` H [m
2KTHQvû2 " /QMM2` +2 `ûbmHi i- +ö2bi@ "
+? H2m` T bbû2 /m +Q`Tb m +Q`Tb "X

G2 +Q`Tb 7Qm`MBi

Rê H +? H2m` Mû+2bb B`2 TQm` TQ`i2` H
 R FBHQ;` KK2 /ö B` /2 yê` yê-yyR`c
 kâê G [m MiBiû Mû+2bb B`2 TQm` K B Mi2M
 yê-yyR H i2KTû` im`2 /2 Hö B` HQ`b[möB
 /BH i iBQM /2 RfRReYRfked
 G T`2KB`2 /2 +2b [m MiBiûb /2 +? H2m` ûi M
 T` `` TTQ`i` H b2+QM/2- MQmb H Mû;HB;2`
 2bi- /ö T` b H2` BbQMM2K2Mi /2 H T ;X 99-0
 b2` Bi Mû+2bb B`2 TQm` ++`QWi`2 /2 Rê H i
 FBHQ;X /ö B` bQmKBb` H T`2bbBQM iKQbT
 .ö T` b H2b 2tTû`B2M+2b /2 JJX .2H`Q+?
 bm` H +? H2m` bTû+B}[m2 /2b ; x- +2HH2 /2
 û; mt- y-ked /2 +2HH2 /2 Hö2 mX aB /QM+ MQ
 mMBiû /2 +? H2m` H [m MiBiû Mû+2bb B`2 T
 mM FBHQ;` KK2 /ö2 m- +2HH2 [mB b2` Mû+2
 /2 Rê mM FBHQ;` KK2 /ö B` m` TQm` p H2m
 H [m MiBiû /2 +? H2m` 7Qm`MB2 T` H2 +Q`T

y-ked mMBiûbX

*ö2bi H` H +? H2m` + T #H2 /2 T`Q/mB`2 y-yy
 /2 TmBbb M+2 KQi`B+2 T` b +?mi2 /2 yêyyR
 SQm` mM2 +?mi2 KBHH2 7QBb mbbB ;` M/2
 /2 Rê- H TmBbb M+2 KQi`B+2 T`Q/mBi2 b2`
 Ryyy 7QBb H T`2KB`2 Qm

y-yyyjdkX

aB K B Mi2M Mi- m HB2m /2 y-ked mMBiûb /2
 2KTHQvQMb Ryyy mMBiûb- H TmBbb M+2 KQ
 /QMMû2 T` H T`QTQ`iBQM

e3 a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

y-ked~ , y-yyyjdk~ ,t, Ryyy~ ,
/öQM t 4 jdkfked 4 R-jN8 mMBiûbX

BMbB Ryyy mMBiûb /2 +? H2m`- T bb Mi /ö
" H i2KTû` im`2 Rê " mM mi`2 +Q`Tb K
i2KTû` im`2 yê- T`Q/mB`QMi- 2M ;Bbb Mi

R-jN8 mMBiûb /2 TmBbb M+2 KQi`B

LQmb HHQM b +QKT `2` +2 `ûbmHi i " +
Hö +iBQM /2 H +? H2m` bm` H p T2m` /ö2
amTTQbQM b R FBHQ;` KK2 /ö2 m HB[mE
H + T +Biû +vHBM}; B [9m 22 Mi`2 H#2 i7Q2 /
TBbiQM b mTTQbQM b mbbB Hö2tBbi2M+2
"- K B Mi2Mmb +? +mM " mM2 i2KTû` im`2
/2 ûi Mi ûH2pû2 m@/2bbmb /2 +2HH2 /2
iû 7Q`i T2iBi2X 6B;m`QM b@MQmb K B Mi2
bmBp Mi2b~ ,

*QMi +i /2 Hö2 m p2+ H2 +Q`Tb - T b
/2 H TQb+B iBQM b B7BQM iBQM /2 H p T
" H i2KTû` im`2 /m +Q`Tb TQm` `2KTH
[m2H /QMM2 HB2m Hö2ti2MbBQM /2 H +
TQb2`QM b H #2Tb b B xû;` M/2 TQm` [m2 i
Hö2 m v bQBi +QMi2Mm2 "úHQB;M2K2M2
/m +Q`Tb - +QMi +i /2 H p T2m` p2+
T`û+BTBi iBQM /ömM2 T `iB2 /2 +2ii2 p
K2Mi /2 b 7Q`+2 ûH biB[m2- `2i7Qm` /m
HB[mû7 +iBQM /m `2bi2 /2 H p T2m
H T`2bbBQM +QK#BMû2 p2+ H2 +QMi
úHQB;M2K2Mi /m +Q`Tb "- MQmp2 m +

p2+ H2 +Q`Tb - `2iQm` /2 Hö2 m " H i2KTû
 +Q`Tb- `2MQmp2HH2K2Mi /2 H T`2KB `2 T
 bmbi2X

G [m MiBiû /2 TmBbb M+2 KQi`B+2 /ûp2HQ
 +2`+H2 +QKTH2i /öQTû` iBQMb 2bi K2bm`û2
 pQHmK2 /2 H p T2m` KmHiBTHBû T ` H /Bzû
 i2MbBQMb [mö2HH2 TQbb /2 " H i2KTû` im`2
 +2HH2 /m +Q`Tb "X

Zm Mi " H +? H2m` 2KTHQvû2- +ö2bi@"@/
 /m +Q`Tb m +Q`Tb "- +ö2bi ûpB/2KK2Mi +2
 Mû+2bb B`2 TQm` i` Mb7Q`K2` Hö2 m 2M p T2
 iQmi27QBb H T2iBi2 [m MiBiû Mû+2bb B`2 T
 HB[mB/2 /2 H i2KTû` im`2 /m +Q`Tb " " +2HH

amTTQbQMb H i2KTû` im`2 /m +Q`Tb Ry
 /m +Q`Tb " NNê~, H /Bzû`2M+2 /2b i2MbBQM
 H i #H2 /2 JX . HiQM- ke KBHHBK i`2b /2 K2`
 K i`2b /2 ? mi2m` /ö2 mX

G2 pQHmK2 Q++mTû T ` H p T2m` 2bi Rdy
 Hö2 mX aB MQmb QTû`QMb bm` mM FBHQ;`
 HBi`2b Qm R-dyy K i`2b +m#2bX

BMbB H TmBbb M+2 KQi`B+2 /ûp2HQTtû2
 T`Q/mBi

~~R~~R-dyy"y-je 4 y-eRR mMBiûb

/2 Hö2bT +2 /QMi MQmb pQMb 7 Bi mb ;2 T`û

G [m MiBiû /2 +? H2m` 2KTHQvû2 2bi H [
 +2bb B`2 TQm` i` Mb7Q`K2` 2M p T2m` Hö2 m
 RyyêX *2ii2 [m MiBiû 2bi /QMMû2 T ` Hö2tTû

dy a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

i`Qmpû2 û; H2 " 88yê- Qm- TQm` T `H2` T
88y /2 MQb mMBiûb /2 +? H2m`X

BMbB y-eRR mMBiûb /2 TmBbb M+2 KQ
Hö2KTHQB /2 88y mMBiûb /2 +? H2m`X

G [m MiBiû /2 TmBbb M+2 KQi`B+2 `ûb
mMBiûb /2 +? H2m` b2` /QMMû2 T `H T`C

88y~ , y-eRR~ , ~t,~ RyyM,t 4 eRRf88y 4 R-R

BMbB Ryyy mMBiûb /2 +? H2m`i` MbTQ`iû
i2Mm " Ryyê " mM mi`2 +Q`Tb K BMi2Mm "
2M ;Bbb Mi bm` H p T2m` /ö2 m- R-RRk m
KQi`B+2X

G2 MQK#`2 R-RRk /Bz `2 /2 Rf9 2MpB`
R-jN8- i`Qmpû T`û+û/2KK2Mi TQm` H p H2
KQi`B+2 /ûp2HQTTû2 T `Ryyy mMBiûb /2 +
Hö B`- K Bb BH7 mi Q#b2`p2` [m2 / Mb +2
/2b +Q`Tb 2i " ûi B2Mi Rê 2i yê- i M/Bb [
Ryyê 2i NNêX G /Bzû`2M+2 2bi #B2M H
M2 b2 i`Qmp2 T b " H K K2 ? mi2m` / Mb
KQKûi`B[m2X AH m` Bi 7 HHm- TQm` 7 B
2t +i2- ûp Hm2` H TmBbb M+2 KQi`B+2
p T2m` 7Q`Kû2 " Rê 2i +QM/2Mbû2 " yê~c
Qmi`2 TQmpQB` +QMMQWi`2 H [m MiBiû
/ Mb H p T2m` 7Q`Kû2 " RêX

G HQB /m2 " JJX *HûK2Mi 2i .ûbQ`K2b-
+B@/2bbmb- T ;X ee- MQmb 7Qm`MBi +2i
+QMbiBim Mi2 /2 H p T2m` /ö2 m ûi MiQ
[m2H[m2 i2KTû` im`2 [m2 H p TQ`Bb iBQ

88y /2;`ûb /2 +? H2m` TQm` p TQ`Bb2` Hö2 m
Ryyê- BH2M7 m/` 88y Y Ryy QM e8y TQm` p T
TQB/b /ö2 m T`Bb2 yêX

1M 7 Bb Mi mb ;2 /2 +2ii2 /QMMû2 2i`
/ö BHH2m`b #bQHmK2Mi +QKK2 MQmb Hö pC
" Ryyê- HöQM i`Qmp2- BMbB [möBH2bi7 +B

R-kNy

TQm` H TmBbb M+2 KQi`B+2 /ûp2HQTtû2 T
+? H2m` ;Bbb Mi bm` H p T2m` /ö2 m 2Mi`2
*2 MQK#`2 b2` TT`Q+?2 THmb [m2 H2 T`2K

R-jN8

AH Mö2M /Bz `2 THmb [m2 /2 RfRj- 2``2m` [m
/2b HBKBi2b T`ûbmK #H2b- 2mû; `/ m;` M/M
Mû2b /2 /Bp2`b2b 2bT +2b /QMi MQmb pQMb
mb ;2 TQm` ``Bp2` " +2` TT`Q+?2K2MiX B
pû`B}û2- / Mb mM + b T`iB+mHB2^{kj} XMQi`2 HQ

LQmb 2t KBM2`QMbmM mi`2 + b- +2HmB C
H +? H2m` bm` H p T2m` /ö H+QQHX

G2b` BbQMM2K2Mib bQMi B+B #bQHmK2M
TQm` H p T2m` /ö2 m~c H2b /QMMû2b b2mH2

^{kj}XPM i`Qmp2MUH2b /2 +?BKB2 2i-/DmTBMHB2[mR23R3-
T ;X kN9V / Mb mM JûKQB`2 /2 JX S2iBi mM2 ûp Hm
TmBbb M+2 KQi`B+2 /2 H +? H2m` TTHB[mû2`Hö B`
*2ii2 ûp Hm iBQM+QM/mBi` ii`B#m2` Hö B` iKQbT?
p Mi ;2~c K Bb 2HH2 2bi/m2 mM2 Kûi?Q/2 iQmi@"@
/2 +QMbB/û`2` Hö +iBQM /2 H +? H2m`X

dk a /B * `MQiX R-3k9X Mb bm` H TmBbb M+2 KQ

Gö H+QQH Tm` #QmibQmb H T`2bbBQM
iB;` /2bXIMFBHQ;` KK2 #bQ`#2- /ö T` b
2i "û` `/- kyd mMBiûb /2 +? H2m` TQm` b2
p T2m` " +2ii2 K K2 i2KTû` im`2 d3ê-dX

G i2MbBQM /2 H p T2m` /ö H+QQH " R
TQB Mi /öû#mHHBiBQM b2 i`Qmp2 /BKBMn
/2 Rfk8 KQBM/`2 [m2 H T`2bbBQM iKQbT
KQB Mb +2 [mB `ûbmHi2 /2b 2tTû`B2M+2b
` TTQ`iû2b / Mb H b2+QM/2BTi2+iB2/22?Hvö`
HB[122JX S`QMv- T ;X R3y- RN8VX

k9JX. HiQM p Bi+`m T2`+2pQB` [m2 H2b p T2m`b
" /2b /Bbi M+2b i?2`KQKûi`B[m2b û; H2b /m TQB Mi
b B2Mi /2 i2MbBQM b û; H2b`c K Bb +2ii2 HQB Mö2
2t +i2- 2HH2 Mö2bi [mö TT`QtBK iBp2X AH 2M 2bi
T`QTQ`iBQMM HBiû/2 H +? H2m` H i2Mi2/2b p T2
UoX 1ti` Bib /ömm JûKQB`2 /2 JNM XH 22b T2 2i2v-bB[m
2i /2 +?B KQ2 Re- TX Ry8- 2i iQK2 k9- TX jkjXV G2
+2 ;2M`2 b2 HB2Mi /2 T` b p2+ +2HH2b /2 H TmBb
hQmi`û+2KK2Mi JJX> . pv 2i6` / v- T` b pQB`7
2tTû`B2M+2b bm` H HB[mû7 +iBQM /2b ; x- T` H
+QM bB/û` #H2- QMi +?2`+?û " `2+QMM Wi`2 H2b +
/2 +2b ; x HB[mû}2b TQm` /2 Hû;2`b +? M;2K2Mib /
p B2Mi 2M pm2 Hö TTHB+ iBQM /2b MQmp2 mt HE
/2 H TmBbb M+2 KQM M+22bU/2X?BKB2 2i-/2 T?v
D MpB2` R3k9- TX 3yX`V.ö T` b H i?ûQ`B2 +B@/2
T`ûpQB` [m2 Hö2KTHQB /2 +2b HB[mB/2b M2 T`ûb2
`2H iBp2K2Mi` Höû+QM QKB2 /2 H +? H2m`X G2b
b2 `2M+QMi`2` [m2 / Mb H # bb2 i2KTû` im`2- "
TQbbB#H2 /ö ;B`- 2i / Mb H2b bQm`+2b QM- T` +2i
TQbbB#H2 /2 TmBb2` H2++ HQ`B[m2` , (

aB HöQM 7 Bi mb ;2 /2 +2b /QMMû2b- HöQ
;Bbb Mi bm` mM FBHQ;` KK2 /ö H+QQH mt
d3ê-d 2iddê-d- H TmBbb M+2 KQi`B+2 /ûp2H
mMBiûbX

1HH2`ûbmHi2 /2 Hö2KTHQB /2 kyd mMBiûb
Ryyy mMBiûb BH 7 mi TQb2` H T`QTQ`iBQM

kyd~ , y-k89~ , , tRyöQM, R-kjyX

*2 MQK#`2 2bi mM T2m THmb 7Q`i [m2 R-RR
Hö2KTHQB /2 H p T2m` /ö2 m mt i2KTû` in
NNêX J Bb bB HöQM bmTTQb2 H p T2m` /ö2
i2KTû` im`2b d3ê 2iddê- QMi`Qmp2- 2M 7 Bb
HQB /2 JJX *HûK2Mi 2i .ûbQ`K2b- R-kRk TQm
KQi`B+2 /m2 " Ryyy mMBiûb /2 +? H2m`X *2 /
b2` TT`Q+?2- +QKK2 QM pQBi- #2 m+QmT /2
/Bz `2 [m2 /2 Rf8yX

LQmb m`BQMb /ûbB`û TQmpQB` 7 B`2 /ö r
K2Mib /2 +2 ;2M`2- TQmpQB` + H+mH2`- T`2
b M+2 KQi`B+2 /ûp2HQTTû2 T`Hö +iBQM /2
/2b bQHB/2b 2i /2b HB[mB/2b- T`H +QM;û
2i+X~c K Bb H T?vbB[m2 +im2HH2 MQmb`2
Mû+2bb^{k8}XBG2bHQB 7QM/ K2Mi H2 [m2 MQmb p
/2 +QM}`K2` MQmb b2K#H2` Bi 2tB;2` +2T2M
KBb2 ?Q`b /2 /Qmi2- /2b pû`B}+ iBQMb MQm

k8X*2HH2b [mB MQmb K M[m2Mi bQMi H 7Q`+2 2tT Mb
H2b bQHB/2b 2i H2b HB[mB/2b T`mM ++`QBbb2K2M
im`2- 2i H [m MiBiû /2 +? H2m` #bQ`#û2 Qm # M/Q
+? M;2K2Mib /2 pQHmK2 /2 +2b +Q`TbX

bbBb2 bm` H i?ûQ`B2 /2 H +? H2m` i2H
mDQm`/ö?mB- 2i- BH 7 mi Hö pQm2`- +2i
T b /ömm2 bQHB/Biû BMû#` MH #H2X .2b
TQm`` B2Mi b2mH2b /û+B/2` H [m2biBQM
MQmb Q++mT2`QMb /ö TTHB[m2` H2b B/û
2tTQbû2b- 2M H2b`2; `/ Mi +QKK2 2t +i2b
/Bp2`b KQv2Mb T`QTQbûb Dmb[mö` T`ûb2
TmBbb M+2 KQi`B+2 /2 H +? H2m`X

GöQM [m2H[m27QBb T`QTQbû /2 /ûp2
b M+2 KQi`B+2 T` Hö +iBQM /2 H +? H
bQHB/2bX G K MB `2 /2 T`Q+û/2` [mB b2 T
im`2HH2K2Mi` Hö2bT`Bi2bi /2 }t2` BMp`
bQHB/2- mM2 # ``2 Kûi HHB[m2- T` 2t2K
b2b 2ti`ûKBiûb`c /ö ii +?2` Hö mi`2 2ti`û
KQ#BH2 /2 K +?BM2`c TmBb- T` /2b`û+?
`27`QB/Bbb2K2Mib bm++2bbB7b- /2 7 B`2
H # ``2 2i /2 T`Q/mB`2 BMbB /2b KQmp2K
1bb vQMb /2 Dm;2` bB +2ii2 K MB `2 /2 /û
b M+2 KQi`B+2 T2mi i`2 p Mi ;2mb2X LQ
[m2 H2 + ` +i`2 /m K2BHH2m` 2KTHQB /
T`Q/m+iBQM /m KQmp2K2Miûi Bi[m2 iQm
/2 i2KTû` im`2 bm`p2Mmb / Mb H2b +Q`Tb
+? M;2K2Mib /2 pQHmK2X SHmb QM TT`C
+2ii2 +QM/BiBQM- 2i KB2mt H +? H2m` b
QTû` Mi /2 H K MB `2 [mB pB2Mi /ö i`2 /û-
HQBm /2 `2KTHB` H +QM/BiBQM /QMibH
;2K2Mi /2 i2KTû` im`2 Mö2bi /? B+B` mM
pQHmK2~, iQmb bQMib /mb mt +QMib +ib /2 -
û+? mzûb- m +QMib +i /2 H # ``2 Kûi HHB

+Q`Tb +? `;û /2 HmB 7Qm`MB` H +? H2m`- b
+? `;û /2 H HmB 2MH2p2`X

G2 b2mH KQv2M /2 `2KTHB` H +QM/BiBQM
/ö ;B`bm` H2+Q`Tb bQHB/2 #bQHmK2Mi- +Q
7 Bi bm` Hö B` / Mb H2b QTû` iBQM b /û+`Bi2
7 m/` BiTQm` +2H TQmpQB` T`Q/mB`2 T `H2
/2 pQHmK2 /m +Q`Tb bQHB/2 /2b +? M;2K2Mi
/2 i2KTû` im`2- bB /m KQBMb HöQM pQmH
+?mi2b +QM bB/û` #H2b /m + HQ`B[m2~, Q` +
BKT` iB+ #H2X SHmbB2m`b +QM bB/û` iBQM b
" T2Mb2` [m2 H2b +? M;2K2Mib QTû`ûb / Mb H
/2b +Q`Tb bQHB/2b Qm HB[mB/2b T `Hö2z2i
2i/2 H ` `û7 +iBQM b2` B2Mi bb2x 7 B#H2b
RöQM Q#b2`p2 bQmp2Mi / Mb H2b K +?B

K +?BM2b " 72m T `iB+mHB `2K2MiV /2b TB
bmTTQ`i2Mi /2b 2zQ`ib i` b@+QM bB/û` #H
mM b2Mb- i Mi-i / Mb Hö mi`2- 2i [mQB[m
bQB2Mi [m2H[m27QBb mbbB ;` M/b [m2 H
M im`2 /2b bm#bi M+2b KBb2b 2M ¾mp`2-
/2 i2KTû` im`2 bQMi T2m b2MbB#H2bX

kê Mb Hö +iBQM /2 7` TT2` H2b Kû/ BHH2b-
H KBMQB`- /2 H }HB `2- H2b Kûi mt bm#
;` M/2 +QKT`2bbBQM [m2 MQb KQv2Mb MQ
/2 H2m` 7 B`2 ûT`Qmp2` 2M 2KTHQv Mi H2
/m`b 2i H2b THmb `ûbBbi MbX *2T2M/ Mi
i2KTû` im`2 Mö2bi T b +QM bB/û` #H2~, bB
TB +2b /ö +B2` /QMi QM 7 Bi mb ;2 / Mb +
b2` B2Mi #B2Mi-i /ûi`2KTû2bX

de a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

jêPM b Bi [möBH 7 m/` Bi 2t2`+2` bm` H
HB[mB/2b mM i` b@;` M/ 2zQ`i TQm` T`O
`û/m+iBQM /2 pQHmK2 +QKT ` #H2 " +2
ûT`Qmp2` H2`27`QB/Bbb2K2Mi UmM`27
" yê- T ` 2t2KTH2VX P` H2`27`QB/Bbb
bmTT`2bbBQM /2 + HQ`B[m2 THmb ;` M/
H bBKTH2`û/m+iBQM /2 pQHmK2X aB +
T`Q/mBi2 T ` mM KQv2M Kû+ MB[m2-H
M2 TQm`` Bi /QM+ T b 7 B`2 p `B2` H
+Q`Tb /ö mi Mi /2 /2;`ûb [m2 H2 7 Bi H2
1HH2 Mû+2bbBi2` Bi+2T2M/ Mi Hö2KTH
b?` i` b@+QMbB/û` #H2X

SmBb[m2 H2b +Q`Tb bQHB/2b bQM i bmb+2
;2K2Mi /2 i2KTû` im`2 T ` H2b +? M;2K2M
TmBb[m2 /ö BHH2m`b H +QM/BiBQM /m K
+? H2m` m /ûp2HQT T2K2Mi /2 H TmBbb
T`û+BbûK2Mi [m2 iQmi +? M;2K2Mi /2 i2KT
" mM +? M;2K2Mi /2 pQHmK2- H2b +Q`Tb
T2m T`QT`2b " `û HBb2` +2ii2 TmBbb M+2
G2b +Q`Tb HB[mB/2b bQM i #bQHmK2Mi
H2b K K2b ` BbQM b T2mp2Mi i`2 /QMMû2
2KTHB

LQmb M2 T `HQM b T b B+B /2b /B{+mHiû
b2` B2Mi b Mb MQK#`2X G2b KQmp2K2Mi

kex.2b 2tTû`B2M+2b`û+2Mi2b /2 JX P2`bi2/ bm` H -
Hö2 m QMi 7 Bi pQB` [m2- TQm` mM2 T`2bbBQM /2
Tû` im`2 /2 +2 HB[mB/2 MöûT`Qmp Bi T b /2+? M;
UoQWM H2b /2 T?vbB[m2- 2iû/2` B2B RBj- TX RNkXV

/BH i iBQM 2iH +QKT`2bbBQM/2b+Q`Tb bQH
 TQm`` B2Mi i`2 [m2 7Q`i T2iBib~c QM b2 p2`
 H2m` /QMM2` /2 Hö2ti2MbBQM- /2 7 B`2 mb ;
 +QKTHB[mûb~c BH 7 m/` Bi 2KTHQv2` /2b K i
 ;` M/2 7Q`+2 TQm` i` MbK2ii`2 /2b T`2bbBQ
 2M}M H2b QTû` iBQM b bm++2bbBp2b bö2tû+r
 +QmT /2 H2Mi2m`- +QKT`û2b `` +2HH2b /2 H
 Q`/BM B`2- /2 bQ`i2 [m2 /2b TT`2BHb /2 ;` M
 2i /ö mM T`Bt +QM bB/û` #H2 M2 T`Q/mB` B2M
 /2 Kû/BQ+`2b 2z2ibX

G2b ~mB/2b ûH biB[m2b- ; x Qm p T2m`b-
 `Bi #H2b BMbi`mK2Mib TT`QT`Bûb m /ûp2H
 TmBbb M+2 KQi`B+2 /2 +? H2m`X AHb`ûmM
 +QM/BiBQM b Mû+2bb B`2b TQm` #B2M`2KT
 bQMi 7 +BH2b `` +QKT`BK2`- BHb DQmBbb2M
 /Bbi2M/`2 T`2b[m2 BM}MBK2Mi~c H2b p`B i
 Q++ bBQM2Mi +?2x 2mt /2 ;` M/b +? M;2K2M
 `im`2~c 2M}M BHb bQMi i` b@KQ#BH2b- 7 +
 ``27`QB/B` T`QK Ti2K2Mi- 7 +BH2b ``i` MbTC
 mM mi`2- +2 [mB /QMM2 H 7 +mHiû /2 H2m
 `TB/2K2Mi H2b 2z2ib [m2 HöQM ii2M/ /ö2mt

Pm T2mi BbûK2Mi +QM+2pQB` mM2 7QmH
 T`QT`2b `` /ûp2HQT T2`H TmBbb M+2 KQi`B+2
 Hö2KTHQB /2b ~mB/2b ûH biB[m2b~c K Bb /2
 [m2 HöQM böv T`2MM2- BH M2 7 mi T b T2`
 T`BM+BT2b bmBp Mb~,

Rë i2KTû` im`2 /m ~mB/2 /QBi i`2 TQ`iû2 /
 /2 ;`û H2 THmb ûH2pû TQbbB#H2- }M /öQ#i

d3 a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

+?mi2 /2 + HQ`B[m2- 2iT `bmBi2 mM2 ;
/2 TmBbb M+2 KQi`B+2X
kêS `H K K2 `BbQM H2 `27`QB/Bbb2K2M
mbbB HQBM [m2 TQbbB#H2X
jêAH 7 mi 7 B`2 2M bQ`i2 [m2 H2 T bb ;2 /
/2 H i2KTû` im`2 H THmb ûH2pû2 " H
THmb # bb2 bQBi /? " Hô2ti2MbBQM /2 p
BH 7 mi 7 B`2 2M bQ`i2 [m2 H2 `27`QB/B
bTQMi MûK2Mi T `Hô2z2i /2 H ` `û7 +i
G2b #Q`M2b /2 H i2KTû` im`2 " H [m2HH2
7 B`2 ``Bp2` /ô #Q`/ H2 ~mB/2 M2 bQMi [r
i2KTû` im`2 T`Q/mBi2 T `H +QK#mbiBQM
ûHQB;Mû2bX

G2b #Q`M2b /m `27`QB/Bbb2K2Mi b2 `
H i2KTû` im`2 /2b +Q`Tb H2b THmb 7`QE
/BbTQb2` 7 +BH2K2Mi 2i 2M ;` M/2 #QM/
bQMi Q`/BM B`2K2Mi H2b 2 mt /m HB2m QI
Zm Mi " H i`QBbB K2 +QM/BiBQM- 2HH
+mHiûb " H `û HBb iBQM/2 H TmBbb M+2
HQ`b[möBH bö ;Bi/2 K2ii`2 " T`Q}i /2 ;` M/
i2KTû` im`2- /ömiBHBb2` /2 ;` M/2b +?mi2
2z2i- BH 7 mi HQ`b [m2 H2 ; x- T `Hô2z2
T bb2 /ömM2 i2KTû` im`2 i` b@ûH2pû2 "
i` b@# bb2- +2 [mB 2tB;2 mM ;` M/ +? M;2
2i /2 /2MbBiû- +2 [mB 2tB;2 [m2 H2 ; x bC
bQmb mM2 T`2bbBQM i` b@7Q`i2- Qm [mö
/2 b /BH i iBQM- mM pQHmK2 ûMQ`K2- +
Hö mi`2 /B{+BH2b " `2KTHB`X G T`2KB `2
/2 p Bbb2 mt i` b@bQHB/2b TQm` +QMi2I

bQmb mM2 7Q`i2 T`2bbBQM 2i` mM2 ? mi2 i2
b2+QM/2 Mû+2bbBi2 Hö2KTHQB /2 p Bbb2 m
i` b@+QMbB/û` #H2X

*2 bQM i H` 2M 2z2i H2b T`BM+BT mt Q#bi
TQb2Mi` +2 [m2 HöQM K2ii2` T`Q}i- / Mb H2
p T2m`- mM2 ;` M/2 TQ`iBQM /2 H TmBbb M+
+? H2m`X PM 2bi7Q`+û/2 b2 #Q`M2`` miBHBb
/m + HQ`B[m2- i M/Bb[m2 H +QK#mbiBQM /m
H2b KQv2Mb /2 bö2M T`Q+m`2` mM2 i` b@;` M

AH 2bi` `2 [m2 / Mb H2b K +?BM2b` p T2r
M Bbb M+2 m ~mB/2 ûH biB[m2 bQmb mM2 T
` e iKQbT? `2b- T`2bbBQM +Q``2bTQM/ Mi2
/2;`ûb +2MiB;` /2b- 2i BH 2bi` `2 [m2 H +
böQT`2` mM2 i2KTû` im`2 7Q`i m@/2bbQr
+?mi2 /2 + HQ`B[m2 /2 Reyê` 9yê 2bi Rkyê-
T2mi b2 T`Q+m`2`- T` H +QK#mbiBQM- mM2
kyyy /2;`ûbX

SQm` KB2mt 7 B`2 +QM+2pQB` +2+B- MQm
[m2 MQmb pQMb /ûbB;Mû T` +?mi2 /2 + HQ`
T bb ;2 /2 H +? H2m` /ömM +Q`Tb - QM H i2
ûH2pû2-` mM` mi`2 "- QM 2HH2 2bi THmb # b
[m2 H +?mi2 /m + HQ`B[m2 2bi /2 Ryy /2;`ûb
/2;`ûb HQ`b[m2 H /Bzû`2M+2 /2 i2KTû` im`2

2i` 2bi Ryyê Qm RyyyêX

. Mb mM2 K +?BM2` p T2m` [mB i` p BHH2
bBQM e iKQbT? `2b- H i2KTû` im`2 /2 H +
Rey /2;`ûb~, +ö2bi H` H2 +Q`Tb ~c BH 2bi 2M
+QMi +i /m 7Qv2`-` H i2KTû` im`2 +QMbi Mi

3y a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

MBi +QM iBMm2HH2K2Mi H +? H2m` Mû+2
H p T2m`X

G2 +QM/2Mb2m` 2bi H2 +Q`Tb " ~c BH 2
KQv2M /ömM +Qm` Mi /ö2 m 7`QB/2- " H i
T` b +QMbi Mi2 /2 9y /2;`ûb~c BH #bQ`#2
H2 + HQ`B[m2 [mB HmB 2bi TTQ`iû /m +Q

G /Bzû`2M+2 /2 i2KTû` im`2 2Mi`2 +2b
Reyê 9yê Qm Rkyê~, +ö2bi TQm`[mQB M
+?mi2 /m + HQ`B[m2 2bi B+B RkyêX

G2 +? `#QM ûi Mi + T #H2 /2 T`Q/mB`2
iBQM mM2 i2KTû` im`2 bmTû`B2m`2 " Ryy
/QMi QM /BbTQb2 H2 THmb Q`/BM B`2K2I
ûi Mi " Ryê 2MpB`QM- HöQM T2mi b2 T`Q+
+?mi2 /2 + HQ`B[m2 /2 Ryyyê- +?mi2 /QM
bQMi miBHBbûb T `H2b K +?BM2b " p T2r
M2 bQMi@BHb T b KBb 2MiB `2K2Mi " T`Q}
/2b T2`i2b +QMbB/û` #H2b /m2b " /2b`ûi #
/öû[mBHB#`2 / Mb H2 + HQ`B[m2X

AH 2bi Bbû /ö T2`+2pQB`K B Mi2M Mi
+ mb2b /2 Hö p Mi ;2 /2b K +?BM2b /Bi2b
bm` H2b K +?BM2b " T`2bbB-QM p Hmb;# b
`ûbB/2 2bb2MiB2HH2K2Mi / Mb H 7 +mH
mM2 THmb ;` M/2 +?mi2 2 Gm p T2m`B[m2M
M Bbb M+2 bQmb mM2 T`2bbBQM THmb 7
" mM2 i2KTû` im`2 THmb ûH2pû2- 2i +QK
i2KTû` im`2 /2 H +QM/2Mb iBQM`2bi2 iQ
H K K2~c H +?mi2 /m + HQ`B[m2 2bi ûp
+QMbB/û` #H2X

J Bb TQm` iB`2` /2b K +?BM2b " ? mi2 T`
 `ûbmHi ib p` BK2Mi p Mi ;2mt- BH 7 mi[m2 H
 `B[m2 v bQBi KBb2 " T`Q}i H2 KB2mt TQbbB#H
 [m2 H p T2m` T`2MM2 M Bbb M+2 " mM2i2KTû
 BH 7 mi2M+Q`2 [m2 T` Hô2ti2MbBQM /2 bQM
 " mM2i2KTû` im`2 bb2x # bb2X G2 + ` +i`2
 K +?BM2" p T2m` /QBi/QM+ i`2 MQM b2mH2K
 H p T2m` bQmb mM2 7Q`i2HTö2K2BQM2`Kb Qmb
 /2b T`2bbBQM b bm++2bbBp2bi` b@p`B #H2I
 mM2b /2b mi`2b- 2i T`Q;`2bbBp2K2Mi /û+`QB

k d *2 T`BM+BT2- pû`Bi #H2 7QM/2K2Mi /2 H i?ûQ`B2
 " p T2m`- ûiû /ûp2HQTTû p2+ #2 m+QmT /2 +H`iû-
 K2Mi- / Mb mM KûKQB`2 T`ûb2Miû " Hö + /ûKB2 /2b b
 [m2H[m2b MMû2bX *2 KûKQB`2 Mö D K Bb ûiû BKT`E
 /? H +QMM Bbb M+2 " H +QKTH Bb M+2 /2 Hö mi2m
 H2 T`BM+BT2 v 2bi ûi #HB- K Bb BH v 2bi TTHB[mû
 /2 K +?BM2b" p T2m` +im2HH2K2Mi 2M mb ;2`c H Tm
 /2 +? +mM2 v 2bi ûp Hmû2 T` H2 b2+Qm`b /2 H HQB
 +QKT`û2 mt`ûbmHi ib /2 Hö2tTû`B2M+2X

G2 T`BM+BT2 /QM iBH 2bi B+B [m2biBQM 2bi i2HH2K
 TT`û+Bû- [m2`û+2KK2Mi JX S2`FBMb- +ûH #`2 Kû+ M
 +QMbi`mBi mM2 K +?BM2 QM H p T2m` 7Q`Kû2 b
 88 iKQbT?`2b- T`2bbBQM Dmb[m2 HQ`b BMmbBiû2
 m+mM2 2ti2MbBQM /2 pQHmK2- +QKK2 QM T2mi bö2
 H THmb Hû;`2 +QMM Bbb M+2 /2 +2ii2 K +?BM2X 1HH
 b2mH +vHBM/`2- /2 /BK2MbBQM b 7Q`i T2iBi2b- [mB-
 b2`2KTHBi 2MiB`2K2Mi /2 p T2m` 7Q`Kû2 bQmb H
 iKQbT?`2bX G p T2m` M2 T`Q/mBi m+mM2z2i T` Hö
 pQHmK2- +`QM M2 HmB T`ûb2Mi2 m+mM2 + T +Biû
 TmBbb2 pQB`HB2m`c QM H +QM/2Mb2 mbbBi-i T`
 +vHBM/`2X 1HH2 i` p BHH2 /QM+ b2mH2K2Mi bQmb

3k a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

SQm` 7 B`2 b2MiB`- 2MTQ2H2-B2bB M2@
i ;2 /2b K +?BM2b " ? mi2 T`2bbBQM- bmT
T2m` 7Q`Kû2 bQmb H T`2bbBQM iKQbT?
/ Mb H + T +Biû +vHBM/XBqñ/2bQmb H2 T
+ / [mB DQB;M Bi /ö #Q`/ H2 7QM/b #~ , H
pQB` 7 Bi KQmpQB`#2247TbQQMb/r2 Bp` mH

iKQbT? `2b- 2i MQM- +QKK2 Hö2tB;2` Bi bQM #Q
T`2bbBQMb T`Q;`2bbBp2K2Mi /û+`QBbb Mi2bX m
S2`FBMb M2 T` Wi@2HH2 T b`û HBb2` H2b 2bTû`
7 Bi+QM+2pQB`X PM p Bi T`ûi2M/m [m2 Höû+QMQ
T` +2ii2 K +?BM2 ûi Bi /2b NfRy bm` H2b #QMM2b
2i [m2 HöQM v`2M+QMi` Bi 2M+Q`2 /dMMX2d p M
T?vbB[m2 2i /2 +p?BKIB23kj- T ;X 9kNV *2b bb2`iE
bQMi T b pû`B}û2bX G K +?BM2 /2 JX S2`FBMb Mö
Bmp2MiBQM T`û+B2mb2 2M 2M[mö2HH2 KQMi`2 H
/2 H p T2m` bQMb /2b T`2bbBQMb #2 m+QmT THmb
7 Bi Dmb[m2 HQ`b- 2i T`+2 [mö2HH2 T2mi +QM/
KQ/B}û2- " /2b`ûbmHi ib p` BK2Mi miBH2bX

q ii- " [mB HöQM /QBi T`2b[m2 iQmi2b H2b ;` M
/2b K +?BM2b " p T2m`- 2i [mB TQ`iû +2b K +?
/2 T2`72+iBQM mDQM`/ö?mB /B{+BH2 " /ûT bb2
T`2KB2` [mB Bi 2KTHQvû H p T2m` bQmb /2b T`2b
/û+`QBbb Mi2bX . Mb #2 m+QmT /2 + b- BH bmbT2
H p T2m` / Mb H2 +vHBM/`2- " KQBiBû- miB2`b-
/m TBbiQM- [mB bö +?2p Bi BMbB bQmb mM2 T`2
7 B#H2X G2b T`2KB`2b K +?BM2b ;Bbb Mi bm` +
Rdd3X q ii 2M p Bi +QMĩm HöB/û2 / b RdeN- 2i T`
Q#D2i 2M Rd3kX

oQB+B mM2 i #H2 [mB b2 i`Qmp Bi MM2tû2 " H
bmTTQb Bi H p T2m` BMi`Q/mBi2 / Mb H2 +vHBM/
[m`i /2 H +Qm`b2 /m TBbiQM~c TmBb- /BpBb Mi +
T`iB2b- BH + H+mH Bi BMbB H T`2bbBQM KQv2M

| PORTIONS de la descente depuis le sommet du cylindre. | | PRESSION décroissante de la vapeur, la pression entière étant 1. | |
|---|------|---|--------|
| Quart | 0,05 | La vapeur arri- vant librement de la chaudière. | 1 |
| | 0,10 | | 1 |
| | 0,15 | | 1 |
| | 0,20 | | 1 |
| | 0,25 | | 1 |
| Moitié | 0,30 | La vapeur étant interceptée, et la descente ne s'opérant que par la seule ex- pansion. | 0,830 |
| | 0,35 | | 0,714 |
| | 0,40 | | 0,625 |
| | 0,45 | | 0,655 |
| | 0,50 | | 0,500 |
| | 0,55 | | 0,454 |
| | 0,60 | | 0,417 |
| | 0,65 | | 0,385 |
| | 0,70 | | 0,375 |
| | 0,75 | | 0,353 |
| | 0,80 | | 0,312 |
| Fond du cyl. 1,00 | 0,85 | | 0,294 |
| | 0,90 | | 0,277 |
| | 0,95 | | 0,262 |
| | 1,00 | | 0,025 |
| | | | Quart. |
| Somme . . . | | 11,583. | |
| Pression moyenne | | $\frac{11,583}{20} = 0,579.$ | |

`B2m`2K2Mi b2b 2z2ib /ömM2 K MB `2 [m2
M2 MQmb Q++mTQMb T bX

AK ;BMQMb [m2 HöQM 7Q`+2 H2`TBbiQ
bö # Bb27b2Mb T2`K2ii`2 " H p T2m` /2 bö
MB /2 T2`/`2 m+mM2 TQ`iBQM /2 bQM +
`27QmHû2 / Mb#272ibTm+2Mi2` " H 7QB
/2MbBiû- /2 7Q`+2 ûH biB[m2 2i /2 i2KTû`
aB H p T2m`- m HB2m /2 T`2M/`2 M E
T`2bbbBQM iKQbT?û`B[m2- 2?i T`Bb M Bb

/2 H T`2bbbBQM T`2KB `2~c [mö BMbB- 2M 2KTHC
p T2m`û; H2 m [m `i- BH T`Q/mBb Bi mM 2z2i THr
q ii bmTTQb Bi B+B [m2 H p T2m` Q#b2`p2 / M
HQB /2 J `BQii2` , +2 [möBH M2 /2p Bi T b `2; `/`
T `+2 [m2- /ömM2 T `i- H2 ~mB/2 ûH biB[m2- 2M b2
i2KTû` im`2- 2i[m2- /2 Hö mi`2- `B2M M2 T`Qmp B
T b mM2 T `iB2 /2 +2 ~mB/2 T `Hö2z2i /2 bQM 2tT
/? mbbB pQB`û; `/`H 7Q`+2 Mû+2bb B`2TQm` 2
`2bi2 T` b H +QM/2Mb iBQM- 2i [mB b2 i`Qmp2 2
THmb ;` M/2 [m2 Hö2ti2MbBQM /m pQHmK2 `ûû T
/Q+i2m`_Q#BMbQM p Bi DQmiû mi` p BH/2 q ii
TQm`+ H+mH2`Hö2z2i/2 Hö2tT MbBQM/2 H p T2
b2 i`Qmp2 2Mi +?û2 /2b K K2b pB+2b [m2 MQmb p
1HH2 `ûû Mû MKQBMB miBH2 mt+QMbi`m+i2m`b
/QMMû2 TT`QtBK iBp2 `T2m T` b bm{b Mi2 TQm
pQMb Dm;û miBH2 /2 `TT2H2`+2b 7 Bib T `+2 [m
bm`iQmi 2M 6` M+2X PM v +QMbi`mBi /2b K +?BM2
Bmp2Mi2m`b- K Bb QM TT`û+B2 K B H2b KQiB7b
/ Mb HöQ`B;BM2X GöQm#HB /2 +2b KQiB7b +QM
7 mi2b ;` p2bX .2b K +?BM2b Q`B;BM B`2K2Mi #E
/ûiû`BQ`û2b 2Mi`2 H2b K BMb /2 +QMbi`m+i2m`b E
v BMi`Q/mB`2 /2b T2`72+iBQMM2K2Mib /2 T2m /öB
H2b +QMbB/û` iBQMb + TBi H2b [möBHb M2 b p B2

Höûi i QM 2HH2 b2 i`Qmp2 #027Mi[m27 QmHû2 2
 pQB` 7 Bi KQmpQB` T` bQM BMi`Q/m+iBQM
 H2 TBbiQM2 2HH2 Hö2?i TQmbbû T` H2 b2r
 bQM 2ti2MbBQM /2 704HmK2m2Bbb M+2 KQi`B
 T`Q/mBi2 2?i ûiû THmb +QMbB/û` #H2 [m2/
 + bX 1M 2z2i- H2 KQmp2K2Mi /m TBbiQM- û; I
 m` Bi 2m HB2m bQmb Hö2zQ`i /ömm2 T`2bb
 [mQB[m2 p`B #H2- [mQB[m2 T`Q;`2bbBp2K2
 G p T2m` Mö2?i +2T2M/ Mi 2tB;û TQm` b
 [mömm2 [m MiBiû /2 + HQ`B[m2 T`û+BbûK2M
 K2Mi +2 + HQ`B[m2 2?i ûiû T`Bb " mm2 i2KT
 ûH2pû2X
 *ö2bi/ö T` b /2b +QMbB/û` iBQMb /2 +2 ;2M
 ûi #HB2b H2b K +?BM2b " /2mt +vHBM/`2b- K
 T` JX >Q`M#HQR2`- T2`72+iBQMMû2b T` JX
 T bb2Mi TQm` H2b THmb p Mi ;2mb2b`2H iL
 MQKB2 /m +QK#mbiB#H2X 1HH2b bQMi +QK
 +vHBM/`2 [mB- " +? [m2 TmHb iBQM- b2`2KT
 /2 p T2m` UbQmp2Mi 2MiB`2K2MiV- 2i /ömm
 m[m2HQM /QMM2 Q`/BM B`2K2Mi mm2 + T +
 +2HH2 /m T`2KB2`- 2i [mB M2`2İQBi /ö mi`2 p
 [mB /ûD" ;B / Mb H2 T`2KB2` +vHBM/`2X E
 m i2`K2 /2 bQM +iBQM- m KQBMb [m /`mTH
 .m b2+QM/ +vHBM/`2 2HH2 2bi TQ`iû2 /B`2+
 +QM/2Mb2m`~c K Bb QM +QMİQBi [mö2HH2 T
 / Mb mM i`QBbB K2 +vHBM/`2 [m /`mTH2 /m b
 pQHmK2 /2pB2M/` Bi Re 7QBb H2 pQHmK2 T`E
 Q#bi +H2 [mB böQTTQb2 " Hö2KTHQB /ömm
 /2 +2 ;2M`2 2bi H + T +Biû [möBH 7 m/` Bi

3e a /B * `MQiX R-3kBX Mb bm` H TmBbb M+2 KQ

H2b ;` M/2b /BK2MbBQMb [möBH 7 m/` B
Qmp2`im`2b /2biBMû2b " HBp`²³XTL Qmb2`
Mö2M /B`QMb T b / p Mi ;2 bm` +2 bmD2i-
T b /ö2Mi`2` B+B / Mb H2b /ûi BHb /2 +QM
+?BM2b " 72m~ , +2b /ûi BHb`û+H K2` B2M

k3XGö p Mi ;2 /2 /2mt +vHBM/`2b bm#biBimûb " m
" T2`+2pQB`X . Mb mM b2mH +vHBM/`2- HöBKTm
2t+2bbBp2K2Mi p`B #H2 /m +QKK2M+2K2Mi " H
7 m/` Bi [m2 iQmi2b H2b TB +2b /2biBMû2b " i` Mb
7mbb2Mi /ömm2 7Q`+2 bm{b Mi2 TQm` `ûbBbi2` " H
2i T`7 Bi2K2Mi bb2K#Hû2b 2Mi`2 2HH2b TQm` ûp
#`mb[m2b /QMi 2HH2b m` B2Mi #2 m+QmT " bQn
m` B2Mi #B2Mi-i /ûi`mBi2bX *2 b2` Bi bm`iQmi b
H2b bmTTQ`ib- bm` H #B2HH2- bm` H K MBp2HH
/2Miû2b- [m2 HöBMû; HBiû /öBKTmHbBQM b2 72`
2z2ib H2b THmb MmBbB#H2bX AH b2` Bi Mû+2bb B
p T2m` 7?i`H 7QBb /ömm2 7Q`+2 bm{b Mi2 TQm`
H THmb ûH2pû2- 2i /ömm2 + T +Biû bb2x +QMbB/
p T2m` T` b bQM 2ti2MbBQM /2 pQHmk2- i M/Bb
/2 /2mt +vHBM/`2b bm++2bbB7b- BH bm{i /2 /QMM
p2+ mM2 + T +Biû Kû/BQ+`2- +2 [mB 2bi +?Qb2 7
;` M/2b /BK2MbBQMb p2+ mM2 7Q`+2 Kû/BQ+`2X
G2b K +?BM2b " /2mt +vHBM/`2b- [mQB[m2 +Q
#QMb T`BM+BT2b- b2 i`Qmp2Mi bQmp2Mi HQBM /
p Mi ;2mt [m2 HöQM m` Bi /`QB i /ö ii2M/`2 /ö2H
bm`iQmi " +2 [m2 H2b /BK2MbBQMb /2b /Bp2`b2b T
bQMi /B{+BH2b " #B2M`û;H2`- 2i [mö2HH2b b2 i`Q
Dmbi2` TTQ`i H2b mM2b p2+ H2b mi`2bX PM K M
TQm` H +QMbi`m+iBQM /2b K +?BM2b " /2mt +vHB
2M TQbb /2 /ö2t+2HH2Mib TQm` H +QMbi`m+iBQM
/2 q iiX .2 H`pB2Mi H /Bp2`bBiû [m2 HöQM Q#b2`p
mM2b 2i H T`2b[m2 mMB7Q`KBiû [m2 HöQM Q#b2`p

i` Bi•i bTû+B H2K2Mi- 2i [mB Mö2tBbi2 T b 2
2M 6` ~~MX~~ 2

aB H /Bbi2MbBQM /2 H p T2m` 2bi #Q` Mû2
T ` H2b /BK2MbBQM b /2b p Bbb2 mt QM 2HH2
/2;`û /2 +QM/2Mb iBQM m[m2H BH 2bi TQbbB
/ö #Q` / Mö2bi HBKBiû [m2 T ` H `ûbBbi M+2 /
2HH2 T`2M/ M Bbb M+2- +ö2bi@` @/B`2 /2b +
` TTQ`i QM 2bi HQBM /ö pQB` ii2B Mi H HBK
bB#H2- H /BbTQbBiBQM /2b +? m/B `2b ;ûMû
2bi iQmi ` 7 Bi pB+B2mb2- [mQB[m2 H i2MbB
bQBi ` `2K2Mi TQ`iû2 m@/2H` /2 9` e iKQbT
û+H i2Mi bQmp2Mi2i QMi+ mbû /2b ++B/2Mi
b Mb /Qmi2 i` b@TQbbB#H2 /öûpBi2` /2 T `2E
TQ`i2` +2T2M/ Mi H p T2m` ` /2b i2MbBQM b
7Q`i2b [möQM M2 H2 7 Bi ;ûMû` H2K2MiX

Pmi`2 H2b K +?BM2b ` ? mi2 T`2bbBQM ` /2
2i /QMi MQmb pQMb T `Hû- BH 2tBbi2 2M+Q
` ? mi2 T`2bbBQM ` mM b2mH +vHBM/`2X G
/2`MB `2b QMi ûiû +QMbi`mBi2b T ` /2mt ? #
M;H Bb- JJX h`2p2iB+F 2i oBpB MX 1HH2b 2
T2m` bQmb mM2 T`2bbBQM i` b@ûH2pû2- [m2
bT? `2b- K [b 2HH2b bQMi b Mb +QM/2Mb2m`

~~k~~XP Mi` Qmp2 / Mb HöQm/p`H; 2_BM?Bibb2ûTB MûX H2
>û`QM /2 oBHH27Qbb2- j2 pQHx- T ;X 8y 2i bmBp Mi2b
iBQM /2b K +?BM2b ` p T2m` +im2HH2K2Mi 2M mb ;2 /
/2b KBM2bX 1M M;H2i2`2- QM i` Biû /2b K +?BM2b
K MB `2 bb2x +QKT1Mi2v / HûThöB2 *` Bim 2/HM [b[2b2@
mM2b /2b /QMMû2b /QMi MQmb MQmb b2`pQMb B+B bQ
Qmp` ;2X

pQB`ûiû B Mi`Q/mBi2 / Mb H2 +vHBM/`2- v
 2ti2MbBQM /2 pQHmK2- K Bb +QMb2`p2 iQ
 THmb ûH2pû2 [m2 H T`2bbBQM iKQbT?û
 `2KTHB bQM Q{+2- QM H `2D2ii2 / Mb Hö
 ûpB/2Mi [m2 +2ii2 7 İQM /ö ;B`û[mBp mi
 H2`TTQ`i /2 H TmBbb M+2 KQi`B+2 T`Q
 H p T2m` " Ryyê- 2i [m2 HöQM T2`/ mM2
 miBH2`c K Bb H2b K +?BM2b [mB QT `2Mi
 +QM/2Mb2m` 2i /2 TQKT2 " B`X 1HH2b bQ
 [m2 H2b mi`2b- KQB Mb +QKTHB[mû2b- 2
 /2 TH +2- 2i T2mp2Mi bö2KTHQv2` / Mb H
 /BbTQb2 T b /ö mM +Qm` Mi /ö2 m 7`QB/2 b
 H +QM/2Mb iBQMX 1HH2b bQMi H` /ö mM p
 TmBb[m2 HöQM M2 T2mi T b H2b `2KTH +
 K +?BM2b bQMi T`BM+BT H2K2Mi 2KTHQv
 KQmpQB`/2b +? `BQib/2biBMûb mi` MbT
 /2b +?2KB Mb /2 72`ûi #HBb- bQBi / Mb Hö
 bQBi " +B2H Qmp2`iX

AH MQmb`2bi2 " 7 B`2 [m2H[m2b`û~2tB
 ; x T2`K M2Mib 2i /2b p T2m`b mi`2b [m2 +
 /ûp2HQT T2K2Mi /2 H TmBbb M+2 KQi`B+2

GöQM 2bb vû " /Bp2`b2b `2T`Bb2b /
 +? H2m`bm`Hö B` iKQbT?û`B[m2 TQm`
 H TmBbb M+2 KQi`B+2X *2 ; x T`ûb2Mi2-
 p T2m` /ö2 m- /2b p Mi ;2b 2i /2b BM+QM p
 HHQM b 2t KBM2`X

RÄHT`ûb2Mi2-`2H iBp2K2Mi" H p T2m` /

MQi #H2 2M +2 [mö v Mi " pQHmK2 û; i
 TQm` H +? H2m` #2 m +QmT KQBM/`2-

/ p Mi ;2 T ` m M2 2ti2MbBQM b2K#H #H2
 U*2 7 Bi 2bi T`Qmpû T ` +2 [m2 MQmb pQM
 /2KK2MiVX P`QM pm /2 [m2HH2 BKTQ`i
 /öQ++ bBQM2`- T ` H2b +? M;2K2Mib /2 pQ
 ;` M/b +? M;2K2Mib TQbbB#H2b / Mb H i2k
 kêG p T2m` /ö2 m M2 T2mi i`2 7Q`Kû2 [m2
 Kû/B B`2 /ömm2 +? m/B `2- i M/Bb [m2 Hö
 `B[m2 TQm`` Bi i`2 û+? mz2 BKKû/B i2K2
 +QK#mbiBQM 2tû+miû2 / Mb bQM b2BMX P
 m M2 T2`i2 +QM bB/û` #H2- MQM b2mH2K2M
 /2 +? H2m`- K Bb 2M+Q`2 / Mb bQM /2;`û
 i`B[m2X *2i p Mi ;2 TT `iB2Mi 2t+HmbBp2
 iKQbT?û`B[m2`c H2b mi`2b ; x Mö2M DQm
 b2` B2Mi K K2 THmb /B{+BH2b " û+? mz2`
 /ö2 mX
 jê }M /2 TQmpQB` /QMM2` " Hö B` m M2 ;` M/2
 pQHmK2- }M /2 T`Q/mB`2 T ` +2ii2 2ti2MbE
 +? M;2K2Mi /2 i2KTû` im`2- BH b2` Bi Mû+
 T`2M/`2 /ö #Q`/ bQmb m M2 T`2bbBQM bb2x
 /` Bi /QM+ H2 +QKT`BK2` T ` m M2 TQKT2 T
 Qm T ` iQmi mi`2 KQv2M p Mi /2 Höû+? m
 QTû` iBQM 2tB;2` Bi m M TT `2BHT `iB+mH
 Mö2tBbi2 T b / Mb H2b K +?BM2b " p T2m`
 +B- Hö2 m 2bi " Höûi i HB[mB/2 HQ`b[möQ
 / Mb H +? m/B `2`c 2HH2 Mö2tB;2- TQm`v
 [mömm2 TQKT2 7QmH Mi2 /2 T2iBi2b /BK2M
 9êG2`27`QB/Bbb2K2Mi /2 H p T2m` T ` H2 +Q
 `û7`B;û` Mi 2bi #B2M THmb T`QK Ti 2i #B2
 [m2 M2 T2mi Hö i`2 +2HmB /2 Hö B`X § H p

Ny a /B * `MQiXÜ-2k8X Mb bm` H TmBbb M+2 KQ

H `2bbQm`+2 /2 `2D2i2` +2HmB@+B /
[mB m` Bi 2M Qmi`2 Hö p Mi ;2 /öûpBi
`û7`B;û` Mi /QMi QM M2 /BbTQb2 T b i
7 m/` Bi TQm` +2H [m2 Hö2ti2MbBQM /
M2 Hö2?i T b 7 Bi ``Bp2` " mM2 T`2bbB
T`2bbBQM iKQbT?û`B[m2X

8âM /2b BM+QMpûMB2Mib H2b THmb ;` p2
/2 M2 TQmpQB` T b i`2 T`Bb2 " /2 ? mi2
b Mb Mû+2bbBi2` Hö2KTHQB /2 p Bbb2
i` Q`/BM B`2X AH Mö2M 2bi T b /2 K K2
H2[m2H BH Mö2tBbi2 T b /2` TTQ`i Mû+2
ûH biB[m2 2i H i2KTû` im`2X Gö B` b2K
T`QT`2 [m2 H p T2m` " `û HBb2` H Tm
/2b +?mi2b /m + HQ`B[m2 / Mb H2b /2;`û
i`2 / Mb H2b /2;`ûb BM7û`B2m`b H p T
THmb +QMp2M #H2X PM +QM+2p` Bi K k
7 B`2 ;B` H K K2 +? H2m` bm++2bbBp
bm` H p T2m` /ö2 mX AH bm{` Bi /2 H B
bQM 2KTHQB- mM2 i2KTû` im`2 ûH2pû2
`2D2i2` BKKû/B i2K2Mi / Mb Hö iKQbT?
2Mp2HQT2` mM2 +? m/B `2 " p T2m` - +
BKKû/B i2K2Mi /ömM 7Qv2`X

Gö2KTHQB /2 Hö B` iKQbT?û`B[m2 m /
H TmBbb M+2 KQi`B+2 /2 H +? H2m` T`û
T` iB[m2- /2b /B{+mHiûb i` b@;` M/2b- K
BMbm`KQMi #H2b~c bB QM T `p2M Bi " H2

b Mb /Qmi2 mM2 bmTû`BQ`Biû `2K `[m #H2
/ö2 jyx

jyXS `KB H2bi2Mi iBp2b 7 Bi2b TQm` /ûp2HQT2` H T
/m 72m T` HöB Mi2`Kû/B B`2 /2 Hö B` iKQbT?û`B[m2-
+2HH2b /2 JJX LB2T+2- [mB QMi 2m HB2m 2M 6` M+2 B
Mû2b- m KQv2M /ömm TT `2BH MQTKûQHQT2BMBp2M
oQB+B 2M [mQB +QMbBbi Bi`T2mT` b +2i TT `2BH` ,
KmMB /ömm TBbiQM- QM Hö B` iKQbT?û`B[m2 ûi BiB
Q`/BM B`2X GöQM v T`QD2i Bi mM2 K iB `2 i` b@+QK
mM ;` M/ ûi i /2 iûMmBiû- 2i [mB `2bi Bi mM KQK2Mi 2
/ Mb Hö B`- TmBb QM v K2ii Bi H2 72mX GöBM~ KK iBC
T` b H2 K K2 2z2i [m2 bB H2 ~mB/2 ûH biB[m2 2?i ûiû n
2i /2 ; x +QK#mbiB#H2- /ö B` 2i /ö?v/`Q; M2 + `#QMû-
BH v p Bi mM2 bQ`i2 /ö2tTHQbBQM 2i mM2 /BH i iBQ
ûH biB[m2- /BH i iBQM [m2 HöQM K2ii Bi`T`Q}i 2M H
2MiB `2 +QMi`2 H2 TBbiQMX *2HmB@+B T`2M Bi mM
THBim/2 [m2H+QM[m2- 2i H TmBbb M+2 KQi`B+2 b2i`
_B2M Mö2KT +? Bi 2MbmBi2 /2 `2MQmp2H2` Hö B` 2i /
QTû` iBQM b2K#H #H2` H T`2KB `2X

*2ii2 K +?BM2- 7Q`i BM;ûMB2mb2 2i B Miû`2bb Mi2
MQmp2 miû /2 bQM T`BM+BT2- Tû+? Bi T` mM TQBMi
/QMi QM 7 Bb Bi mb ;2 +QKK2 +QK#mbiB#H2 U+öûi B
Hv+QTQ/2- 2KTHQvû2` T`Q/mB`2 /2b ~ KK2b bm` MQ
i`QT+? `2TQm` [m2 iQmi p Mi ;2 M2 /BbT` ?i T b T` +
2i K H?2m`2mb2K2Mi BH ûi Bi /B{+BH2 /ö2KTHQv2`
/2 T`Bt KQ/û`û- + `BH 7 HH Bi mM +Q`Tb 2M TQm/`2
HöBM~ KK iBQM 7?i T`QK Ti2- 7 +BH2` T`QT ;2`- 2i H
/2 +2M/`2bX

m HB2m /öQTû`2` +QKK2 H2 7 Bb B2Mi JJX LB2T+
b2K#Hû T`û7û` #H2 /2 +QKT`BK2` Hö B` T` /2b TQKT2
/2 HmB 7 B`2i` p2`b2` mM 7Qv2` T` 7 Bi2K2Mi +HQb- 2
B Mi`Q/mBi H2 +QK#mbiB#H2 2M T2iBi2b TQ`iBQM b T`
` +QM+2pQB`~c /2 HmB 7 B`2 /ûp2HQT2` bQM +iBQM

Nk a /B * `MQiXû-2k8X Mb bm` H TmBbb M+2 KQ

Zm Mi mt mi`2b ; x T2`K M2Mib- BHb
#bQHmK2Mi`2D2iûb~, BHb QMi iQmb H2b
iKQbT?û`B[m2- b Mb T`ûb2Mi2` m+mM /2
PMT2mi2M /B`2 mi Mi /2b p T2m`b mi`
Hö2 m +QKT `û2b " +2ii2 /2`MB `2X
aöBH b2 `2M+QMi` Bi mM +Q`Tb HB[mB
p TQ`Bb•i " mM2 i2KTû` im`2 THmb ûH2pû
p T2m` 2?i bQmb H2 K K2 pQHmK2 mM2 +
KQBM /`2- [mB Mö ii [m•i T b H2b Kûi mt
+QMbi`m+iBQM /2b K +?BM2b- BH Kû`Bi
T`û7û`2M+2~c K Bb H M im`2 M2 MQmb C
+Q`TbX
PM T`QTQbû [m2H[m27QBb Hö2KTHQB
+QQH- QM K K2+QMbi`mBi /2b K +?BM2b
`2M /`2 +2i2KTHQB TQbbB#H2 2M ûpBi Mi
p2+ Hö2 m /2 +QM/2Mb iBQM- +ö2bi@ " @

TBbiQM Qm / Mb iQmi2 mi`2 + T +Biû 2ti2MbB#H2
/ Mb Hö iKQbT? `2- Qm K K2 /2 H2 7 B`2 T bb2` bQ
p T2m`- }M /ömiBHBb2` H i2KTû` im`2 [mB HmB b
G2b T`BM+BT H2b /B{+mHiûb [m2 HöQM 2?i`2M
/öQTû` iBQM 2mbb2Mi ûiû /2 `2M72`K2` H2 7Qv2`
/ömM2 bQHB/Biû bm{b Mi2- /ö2Mi`2i2MB` +2T2M/
ûi i +QMp2M #H2- /2 K BMi2MB` H2b /Bp2`b2b T
mM2 i2KTû` im`2 KQ/û`û2- 2i /ö2KT +?2` H2b /û;
/m +vHBM /`2 2i /m TBbiQM~, MQmb M2 +`QvQM
BMbm`KQMi #H2bX

AH ûiû 7 Bi- /Bi@QM- iQmi`û+2KK2Mi 2M M;
?2m`2mt bm` H2 /ûp2HQT T2K2Mi /2 H TmBbb M+2
/2 H +? H2m` bm` Hö B` iKQbT?û`B[m2X LQmb B;
[mQB +2b 2bb Bb QMi +QMbBbiû- bB iQmi27QBb BH

+Q`Tb 7`QB/ 2tiû`B2m`2K2Mi- m HB2m /2 Hö
 K +?BM2X PM +`Qv Bi T2`+2pQB` / Mb H p T
 p Mi ;2`2K`[m #H2 2M +2 [mö2HH2 TQbb /
 THmb 7Q`i2 [m2 H p T2m` /ö2 m " û; H2 i2KT
 M2 TQmpQM b pQB` H" [mömM MQmp2H Q#bi +
 T`BM+BT H /û7 mi /2 H p T2m` /ö2 m 2bib i2
 " mM2 i2KTû` im`2 ûH2pû2~, Q` +2 /û7 mi 2
 7Q`i2` BbQM / Mb H p T2m` /ö H+QQHX Zm
 `2H iB7 " mM2 THmb ;` M/2 T`Q/m+iBQM /2 Tm
 p Mi ;2 [m2 HöQM +`Qv Bi /2pQB` `2M+QMi`
 T` H2b T`BM+BT2b 2tTQbûb +B@/2bbmb- [m
 *ö2bi /QM+ bm` Hö2KTHQB /2 H p T2m` /ö
 iKQbT?û`B[m2 [m2 /QBp2Mi TQ`i2` H2bi2Mi
 /2 T2`72+iBQMM2K2Mi /2b K +?BM2b " 72m`c
 T` H2 KQv2M /2 +2b ;2Mib- H2b THmb ;`
 TQbbB#H2b /m + HQ`B[m2- [m2 /QBp2Mi i`2
 2zQ`ibX

LQmb i2`KBM2`QM b 2M 7 Bb Mi T2`+2pQB`
 HQBM /ö pQB``û HBbû- T` H2b KQv2Mb +QM
 iQmi2 H TmBbb M+2 KQi`B+2 /2b +QK#mbiB#
 IM FBHQ;` KK2 /2 +?`#QM #`?Hû / Mb H2
 7Qm`MBi mM2 [m MiBiû /2 +? H2m` + T #H2 /ö
 +2MiB;` /2 dyyy FBHQ;` KK2b /ö2 m 2MpB`Q
 [möBH 7Qm`MBi dyyy mMBiûb /2 +? H2m` /ö
 /QMMû2 UT ;X 3R~V /2 +2b mMBiûbX

G THmb ;` M/2 +?mi2`û HBb #H2 /m + HQ`
 `û2 T` H /Bzû`2M+2 2Mi`2 H i2KTû` im`2 T`
 +QK#mbiBQM 2i+2HH2 /2b +Q`Tb 2KTHQvûb
 AH 2bi /B{+BH2 /ö T2`+2pQB` " H i2KTû` im`

N9 a /B * `MQiXÜR-2kBX Mb bm` H TmBbb M+2 KQ

iBQM /ö mi`2b HBKBi2b [m2 +2HH2b QM H
HöQtB; M2 2i H2 +QK#mbiB#H2 T2mi bö2
+2T2M/ Mi [m2 Ryyyê bQB2Mi +2ii2 HBK
iB2M/`QMb +2`i BM2K2Mi m@/2bbQmb /2
H i2KTû` im`2 /m`û7`B;û` Mi- bmTTQbQM

LQmb pQMb ûp Hmû TT`QtBK iBp2K2M
iBiû /2 TmBbb M+2 KQi`B+2 [m2 /ûp2HQT
+? H2m` /m /2;`û Ryy m /2;`û NN~, MQmb
R-Rk mMBiû /2 TmBbb M+2 û; H2b +? +m
ûH2pû /ö mM K i`2 /2 ? mi2m`X

aB H TmBbb M+2 KQi`B+2 ûi Bi T`QTQ`
/m + HQ`B[m2- bB 2HH2 ûi Bi H K K2 TC
i?2`KQKûi`B[m2- `B2M M2 b2` Bi THmb 7 +
/2 Ryyyê " yê~, 2HH2 m` Bi TQm` p H2m`X

R-Rk " Ryyy 4 RRkyX

J Bb +QKK2 +2ii2 HQB Mö2bi [mö TT`QtB
böû+ `i2 T2mi@ i`2 #2 m+QmT /2 H pû`B
ûH2pûb- MQmb M2 TQmpQM b 7 B`2 [mö m
7 Bi;`QbbB `2~, MQmb bmTTQb2`QM b H2
KQBiBû- +ö2bi@ " @/B`2 " 8eyX

SmBb[m2 mM FBHQ;` KK2 /2 +? `#QM T`C
/2 +? H2m` 2i [m2 H2 MQK#`2 8ey 2bi`2H
BH 7 mi H2 KmHiBTHB2` T `d- +2 [mB /QM

d"8ey 4 jNkyX

oQBH" H TmBbb M+2 KQi`B+2 /ö mM FBHQ

SQm`+QKT`2`+2`ûbmHi i i?ûQ`B[m2 p2+
/ö2tTû`B2M+2- 2t KBMQMb +QK#B2M mM FBH
#QM /ûp2HQT T2`û2HH2K2Mi /2 TmBbb M+2
K2BHH2m`2b K +?BM2b` 72m +QMMm2bX

G2b K +?BM2b [mB QMi T`ûb2Miû Dmb[mö
H2b THmb p Mi ;2mt bQMi H2b ;` M/2b K +?
+vHBM/`2b 2KTHQvû2b` HöûTmBb2K2Mi /2b
+mBp`2 /2 *Q`Mr HHX oQB+B H2b K2BHH2m`
B2Mi D K Bb 7Qm`MBX

8e KBHHBQMb /2 HBp`2b /ö2 m QMi ûiû ûH
M;H Bb T` #QBbb2 m /2 +?`#QM #`?Hû UH
33 HBp`2b~VX *2i 2z2i û[mBp mi` ûH2p2`- T`
+?`#QM- RN8 K i`2b +m#2b /ö2 m`mM K i`2 /
T`Q/mB`2 T` +QMbû[m2Mi RN8 mMBiûb /2 Tm
T`FBHQ;` KK2 /2 +?j^RX#QM #`?Hû

j^RXG2`ûbmHi i[m2 MQmb` TTQ`iQMb B+B ûiû 7Qm`M
/QMi H2;` M/ +vHBM/`2 TQm`/BK2MbBQMb 98 TQm+2
TB2/b /2 +Qm`b2`c 2HH2 2bi 2KTHQvû2` HöûTmBb2K2
*Q`Mr HH- MQKKû2 q?2 H #`? KX *2`ûbmHi i/QBi i
2M [m2H[m2 bQ`i2 +QKK2 mM2 2t+2TiBQM- +`BH Mö
2i M2 bö2bi bQmi2Mm [m2 T2M/ Mi mM b2mH KQBbX
KBHHBQMb /2 HBp`2b ûH2pû2b /2 mM TB2/ M;H Bb T`
/2 33 HBp`2b 2bi`2;`/û;ûMû` H2K2Mi +QKK2 mM 2t+
/2b K +?BM2b`p T2m`~c BH2bi[m2H[m27QBb ii2BMi
bvbi K2 /2 q ii- K Bb #B2M``2K2Mi /ûT bbûX *2 /2`M
`2pB2Mi- 2M K2bm`2b 7` Mï Bb2b-` Ry9yyy FBHQ;` K
K i`2 /2 ? mi2m` T`FBHQ;` KK2 /2 +?`#QM #`?HûX
.ö T`b +2 [m2 HöQM 2Mi2M/ Q`/BM B`2K2Mi T`7Q`
/ Mb Höûp Hm iBQM /2b 2z2ib /2b K +?BM2b`p T2m`-
Ry +?2p mt /QBi ûH2p2` T`b2+QM/2 Ry s d8 FBHQ;`X

Ne a /B * `MQiXûR-2kBX Mb bm` H TmBbb M+2 KQ

RN8 mMBiûb M2 bQMi [m2 H2 pBM;iB K2
i?ûQ`B[m2~, T `+QMbû[m2Mi Rfky b2mH2k
KQi`B+2 /m +QK#mbiB#H2 ûiû miBHBbû2

LQmb pQMb +2T2M/ Mi +?QBbB MQi`2 2
K2BHH2m`2b K +?BM2b " p T2m` +QMMm2

G THmT `i /2b mi`2b H2m` bQMi #B2M
+B2MM2 K +?BM2 /2 *? BHHQi- T `2t2KTH
+m#2b /ö2 m " jj K i`2b TQm` jy FBHQ;` KK
#`?Hû- +2 [mB `2pB2Mi " kj mMBiûb /2 TmB
FBHQ;` KK2- `ûbmHi i M2m7 7QBb KQBM/
/2bbmb- 2i R3y 7QBb KQBM/`2 [m2 H2 K tB

PM M2 /QBiT b b2 ~ ii2` /2 K2ii`2 D K Bb
H T` iB[m2- iQmi2 H TmBbb M+2 KQi`B+
G2b i2Mi iBp2b [m2 HöQM 72` BiTQm` TT
b2` B2Mi K K2 THmb MmBbB#H2b [mömiB
Mû;HB;2` /ö mi`2b +QMbB/û` iBQMb BKTC
/m +QK#mbiB#H2 Mö2bi [mömM2 /2b +QM/
H2b K +?BM2b " 72m~c / Mb #2 m+QmT /
2HH2 Mö2bi [m2 b2+QM/ B`2- 2HH2 /QBi
" H b?`2iû- " H bQHB/Biû- " H /m`û2 /2
T2m /2 TH +2 [möBH 7 mi HmB 7 B`2 Q+
7` Bb /2 bQM ûi #HBbb2K2Mi- 2i+X a pQ

" mM K i`2 /2 ? mi2m`- Qm #B2M- T `?2m`2- d8y s
FBHQ;` KK2b " mM K i`2X aB MQmb bmTTQbQMb [
+? `#QM ûH p2 " +2ii2 ? mi2m` Ry9yyy FBHQ;X- BH
H2 +? `#QM #`?Hû 2M mM2 ?2m`2 T `MQi`2 K +?B
/BpBb2` kdyyyyy T `Ry9yyy- +2 [mB /QMM2 kdyfR
2bi #B2M ``2 /2 pQB` mM2 K +?BM2 /2 Ry +?2p mt
/2 ke FBHQ;X /2 +? `#QM T `?2m`2X

+? [m2 + b- " H2m` Dmbi2 p H2m`- H2b +Q
 +QMp2M M+2 2i /öû+QMqKB2 [mB T2mp2Mi b2
 /Bb+2`M2` H2b THmb BKTQ`i Mi2b /2 +2HH2b
 ++2bbQB`2b- H2b # H M+2` iQmi2b +QMp2M
 }M /2 T `p2MB` T ` H2b KQv2Mb H2b THmb 7
 `ûbmHi i- i2H /QBi i`2 H2 T`BM+BT H i H2
 TT2Hû " /B`B;2`- " +QQ`/QMM2` 2Mi`2 2mt H
 b2b b2K#H #H2b- " H2b 7 B`2 +QM+Qm`B` p2
 [m2H[m2 ;2M`2 [möBH bQBIX

6ALX