



eemaata

p{0zU€  
 Nāh̄  
 Nō h̄  
 p}Uu}n̄  
 op{mān̄  
 ü p}Z

p{d{k}zo¾@=Nñ̄, z=0Uñ̄

p{©mCp²NZqßm{m}p{

"@=Nñ̄ d} z=Q\N}wšä" @d}Ô\{, Q{¡\_€o¾dk{¾dkøzUñ̄  
 @ðe=T{N{dQp{ü p{c}ø ũðp}z m}p{d}Vd+

z=Q\N}\{ @=Z. tÔv \_\{ Nđ{N{@=Nñ̄ m}p{d}Vd#Ôv \_{ñ̄Z!  
 @zÕ\}no|=ZjHN}Án̄ N€[E= T? {Üo p{dø|=Zj@mN{nNc  
 BdeQ{Qwāo|=Zj m}p{d}Vd#Ôv \_{ñ̄ N¼m{N}\{i \}\_{m}? @=b{Nð  
 f}nD¾d}d{ Žd{eo|n o|=Zj @=Nñ̄ ¾zmeĚ N{b}= - ũĚ }ðNc

\_ñ̄Q{o¾@=Nñ̄, z=0Uñ̄ @dQ m²\{p{Zn̄ D=\{€ Dd}Ōl . N}ñ̄  
 ùZp}\N€o¾ðmĚ {@=\_Q} o{. z dQ d{€\c\_¼ÜbCp{NĚ DdQ  
 p}Zp̄"@=Nñ̄" @d}nñ̄, A ed{DdQ p}Zp̄ "z=0Uñ̄" @d}nñ̄ KN{  
 ðl {p{€ D=bN}ñ̄ C ðl {p{ðÔ @zÕ\zÕ\{ DĚ=R=TN{ zÕb{.

k}z zĚN{p{€=b{@=Nñ̄ zĚ=Z|l {d{@d{p{d€ N¼b{m¾oN{  
 f¼o{. BbCðVp²d} N}Nf¼ d} "@=Nñ̄ p{Zn̄" p{U€ p{d€ p{Z}\  
 k}zno¾N¼m{Q} Nðed}l . p{d{b{€o¾\_ñ̄Q{, z=z-Á\_€, B=QĚ @d{  
 p{©\{k}znñ̄ \_eŌ=T{N{ð ũ N{p{ Nđ{N{BNĚ\{k}z @=Z. C p{©\{  
 k}znª@ð Qv=T{d{b{c

\_ñ`Q{ z=z-Á\_{k}zno¾bßQ{ zp{|z= @ð KNZ`=bç zp{|z=  
@=Zp{|Zn Nñl `N{ C p{|ZD¾p²`bZ;p{|Z z=P|Úp}TNç @l `@bç  
bßQ{ zp{|z=. p{D¾Np{`n, dñ`bqñ`p²`bóð{bßQ{ zp{|u}n` p{d{  
k}zo¾Hd¾Dd}Ôl `.

@=Nñ p{|Zo{N}b{. Êî k}zo¾d© @=Nñ f}Zn` Nª\{D=Z|l `.  
Db}z m{Nçñ`Q{o¾ "KNZ;L Tõl {.. m²\© m³Nv\$ä .. p{©\©  
p{çÆnN{. . d}n`QªdçbðÔ" @dÔ @=Nñ f}Z T}o| p{ç=Nç\_õt  
D=Z`=bç

p{ç=b{ "KNZ;" \_¾p²`bñ` ç\ç}.

"KN{d{N¼bñ{ "p{N{ @ñ, p{mN¼bñ{ "p{N{ @ñ m}D}m{N}ñ  
"KN{Kz|Õ, ø`Qöð{m²\{Êl ©Q}nª \_z|Õ - @ð d}b{N{@ôf}l ç.  
p{mç `²N{@ôf}l {jðNçp{m{N}mð z=ÊbççTª\ç\ç

"KN{Nçz=xD mª z= "L". "KNZ;L Tõl {" @d{f}Zo¾"KNZª  
@dÔbç=Nõ zªçD`=bç "L" @dÔbç"KN{ @d{m}ðÔ Bz`=bç

"KN{ @d}Ô "K=Z;" @d}Ô KNZ.@ñ. @=b{Nç"KNZ;Nç @d}Ô  
"K=Zn`Nç @d}Ô KNZ.

"K=Zmç @=Z.Hpñç\_¾Zu}=Q{U= oN{ç\} DdÔ p}\ç¾ N}N{çyã  
N}ðp}\ç¾ d}î Qñ Êz UT}mç@d¾@ñ z`ÖmD`=bç K=Zm{ñ` KN{N{ñ=  
zçU=¾zç}\_ñð Nª\{K=Zm{ñ`@d{ç@=Z|mç. zðNçvç¾DdÔ p}w\$ä

K=Zmcp}w\$ä Ho|Qp{L}m{? z«mß= K=Zm{n N{n= p}w\$ä ±dÜ=0¾T{m}m¾  
Ip©!

"KNKN" @ð d¹NA pN}A^=T{pñt p "KNÁ" @ð "N" ð d¹NA  
zöNç {m f ½ {=bç oN{"KNÁQ}d¹NA" @ð @d¹T{E

"KN}d¹N" @=Z. "I b¾KN" @d{m z Öm =bç KNz|Ö\{ @=Z. KN{  
p{KN{d}\, p²·bçd{m}n Tz|ÖN¾T{ENb}. N}ð "KN{p{  
@dÖz|Ö\{ " @l " Q{ " \_{ @d{m}N^ \ {p =bç

"K=\{" @=Z. NdÖ\{o¾d{N}b{ \_ñ Q{o¾N^ \ "KNZ". d} p{Z ü"b{  
dp{ÜN{o f ½ { "K=\{m{n" @d{el ©Q{ T^ \ {ç

m}p{\NCKN{k}mÜ, KN{p{Z, KN{j}^=. m}p{\Ø|ìø}\_=\_{  
KNKNk}mÜ D=Z, p}w\$ä IN{zi Ö Ü{ñ. KN¹NA m¾ NCKN¹NA k}mÜ  
T½z|Öd{p{m}\_^ p{Z; p}w\$ä IN{zi Ö Ü{ñ}m. p}wäð Ip{d}o¾  
d}N{\_ðl {b{.

KNKN{z|d{z|Zd{p}m{ IN¾b{ñ. KNKN{@=Nç DdÖ d}ZN}nð  
IN}=NN@=Z|m{. KN{mNç z=Zð u}Q{ T{ b}ðð IN{ü}l {= @=Z|m{. mN{  
mN}n z=Znð u}Q{ T{ @bçÜ{p{ü}l {= @p{ {=b{©!

"IN" z=z-Á\_ç @l "d z ÖZ|N\_ñ Q{p}\{N¾¾" KN{ p{Zn NçZ.  
"IN{p{Z o{HN{Áp{

"IN{ N}ðbc" @-d{N{ Nd{N{T}o| m¾ n " @d{N{bç\_ç k{d}d}=  
@=Z:HN{Áp{bç\_}n (z w\$ä) DdÖ p{dç|=Z;k{ñ @d{N{d{p}\ð.  
N}b{Z!

Bo| "IN{ \_3N{bQm{p{T Ezb}nNc" E\_ UN{, " \_bN{ @d p{m!Nf=\{ Db}z m^n".

"K=Zm d f" @=Z. @o S} dNcp U m N f Q} I N} =\_ f Q} D=\ X f.

"I N} =\_ f" @=Z. N^3 m{ N{ d K=Zm Q} D=\ X f.

K=Zm Q} Dd Q p U N d "I N} Nc @ d o^3 N{ n " @=Z | m{ N} d " N} p{ N} p k" @ d @ m T N} N{ n d V=Q} I N} N{ n N} p k.

K=Zm Q} Dd Q p} w a d, K=Z b i " b n Dd Q p} w a d "K=Z j e b m} N} t" @=Z | m k. "K=Zm c K=Z^" @ d N^ \ { @=Z | m k.

p{=U} nNc z=\_ N} l { n m} n \_} l { d U p{ z \ p} w a =\_ } K=Z j U} z U^ \ { p{=c q N{ d f N} b f Z | m k.

@m Q f Z N} d p w o^3 Q X t { | m f Q f Z N^4 c Q K=Z Q f Z @ l " d z o N A.

Q^ l f o^3 " I N} =\_ m{ N^4 = " @ d Q z l O \ { " I N} =\_ m k " @=Z. K N Z j o \ c p{m! N Z} @ d @ m f.

Q^ l f o^3 " K N Z j " p{ O U z=O U (" N} i n d o d f i m^), " K N Z p{ @ d Q b U p{ z=O U (" A i n d o d f i m^). Q^ l f b f E o^3 K N Z j j f z=O U, d V (" m t { o^+) z=O U, c d { z=O U, z z V (" d T { m o^+) z=O U, z < i n} = N f, d z O (" m z d o^+) z=O U. Q^ l f o^3 " K N Z j " E a} d z=O U (" E p i d f i m^) N^ \}. C E a} d z=O U b U d p} z m} p { | d { V d z=Q X N} w a = b m o^3 E a} d { n".

KN{m}mø=Z. N{[L} p{T}E p}mø I N{z=a}Q}∨ @=Z|m{.

I N}Q{ @=Z. KN{KN{@=q{ ü·b{b{É ðnè\{ @ð I N}Q{#Q}  
i m}Üd{T? {Úp{T}{Æ. I N}Q{ {o}p}m{ I N{z=a}Q}z Sñ N}W|nm{.

I N}z = @=Z. KN{bd{T} N{UN}=\ {@d}m{¾d{ I N{øD}d{.

HN}HN{#@=Z. KN{b}m{z N{ð p{T}ÆI {U\{. "I N}=\Q} DdQ \_}d{  
@dQz,Ö\{ I N{O=\}²d{i É @ð øpñ{.

\_ñ{Q{¾zbñ KNZñ Nøe \_{ "zb{d{AZ} p{=bc \_ñ{Q{zbN{K=\{"  
N{zQ} p{Æd{b{ "zb{N{#\}. N}ð z=z-Á \_{¾b{ñ I Nñ Nøe \_{ "b{N{  
N}b{, "I N}b{ " @p{ {=bc Bb{ \_ñ{Q{N{z=z-Á \_}ðNDdQ \_{ }no¾KNZ;

p}UN{m{=¾z=c{N}m{= VmQd{,Ö\{ m{ \{ @xm}n Ûd{¾KN{KN{@xm{  
Ab{#Q} p{ b}ðð I N}b{ {z=c{@=Z|m{.

m}Vñî ¾I N}c{ \_{= p{ñ, ðm{N{q{B= p{ñ.

"Ëap{" @=Z. "KNZp{ @ð @ñ{ N{N{Ëa}d{ @=Z. p{ "OÚp²d{b{øp}ü b{  
N}m{UN{p{ |no¾ \_}=i a o|n z{T{ÆN{d{N}m{UN{p{ |ðÏ Ëa}d{ @=Z|m{.

C m¾ no¾Q{, o{Zd{, B=Q{ k}zn Ëk}p}ðÏ \_{=T{N{  
îmQ} \{cd{U{N} \{ N{N{. . .

Q{ {k}z¾ "p²·d¾ @=Z. I N{ @=b{N{I N}=\_{Q} i îN{ \ð  
"p²·d}N{¾ " @=Z|m{. B=b{¾T{ "p{=N+ @dQp{Z p{Æ=b{ BZ·p{Z;  
p}mø p{d{ "I N}N{ @d{T}{Æ





pp{©mcp#NZqβmkn}pk

\_ñQ{o¼p{©\{Ncz=i=cççd{p{Zn" p{©\¼\_ {n p{f}õî N{pñN{ z=z-Á\_ ç d{=\cbQ{p{î  
@l "dp{!@ð @ðeZ=bç \_ñQ{o¼oNf½o{, N}ð p}Z;p}\Nç p{©\{z{p{ñ" Am{  
N}l {n"Q} p{©\ç o{, @=\_¶ Am{p{©\ç}, p{©\{Am{ç}, "p{©\{" oNf½¶BZ"pçZ;  
m}\_ñ T{p{î "bN}b{N{N{p{©\{ðø"s}n f}Z" @ p{©\¼\_¶T{AN}ð C \_m{p}l "  
T{p{ç\ç

p{f}õp{ @=Z.p{©\{f}p{b|n". p{p{d} @=Z.p{©\{mçQ{ñ". p{p{m{ @=Z.p{ç{Am{.  
p{p{b=b{ @=Z.p{©\{pçbñ" Z. BNÁ\{I b¼z=cç<sup>a</sup> Ûç zð T<sup>a</sup> D=\D=\}ö N}ð oNf½¶  
.... N}ð} .... Ho|Q{p{ç=b?

p{eõZo¼p{©\{eZn"=Z.Dd}õl ¶p{© N}ð p{eõZN}l { @=Z.p{©\{f}w{ä p{b{m{B=N}  
KN{f}n" o{Q} Dd{ N¼ ×m{N}l {. p{NÁ=Z; @=Z.p{©\{N{ç{õn" N{p}\{- úp{ç; N{bç-  
N¼ ×m{N}l {.

øq}0zZõ= ëD|o¼p{çAnN{çd{p{Zð p{f}õî N{çd{ @N{o¼p}\çç d{ç{T<sup>a</sup> p{d}. N}ð  
ðZ=Z" p{b¼p{çAnN{ @=Z.k{ç u}Bø", N{ñ"b}m{ñ p{ç{Ü Om}m{d}p{ç @d{ @N{ KNÁZ.D=bç  
Bb{ðVp{d{zç{o¼p{çAnN{ p{©\{N{p{ç{Ü d{d{ j }b{m}l {^ z=i=cç{ç"Z¼

p{p{ç}Üm{ç@d}õ p{ç"Ü\ç@d}õ p{©\{u}m{ç @ð @N{ N{b}, p{m{p{ç"Ü\ç p{ñç @=Z.p{©\{  
u}m{ç p{ñç @ð @N{ç}l? b{ç\cb{N{p{©\{p{ñ}n" z{T{AN{=bN{p{© p{p{ç}Ü\ç p{ñç{o¼  
j}nl ©Q{p{ðç\ç.



p{z0b@=Z.p{c\{zb{n", p{m p{z0l +. Bo|Q|p{1 U\{@=Z.p{c\{Iw\$ä p{m Bmp<sup>2</sup>  
KNZ; p{d{0m{ 300 @l "d{p{c\{p{c\w\$ä \_1/0 Üb{N}D} p{p{c\{p{L {=bd{0b{c  
p{p{UZI\WV=.

p{r{d f{öd{p{r{r N{e{ " p{p{c\{U{ko| ü o|Q|Dd}0\{¥ @=Z|=.

p{I{m{q{Q|N}b{ d}\{î m{zî o{3u}bø " e{zÁm{p{3p{c\{N{Z i{m{f{n" p{d{0p{d|  
Jîz U= N}m{=Q} A m{4 ð p{N{ÁZ;I N}b{ @=Z|m{.

C {d{T{0d{Db}z m{n{d{0Zñ p}ÚN{m{=o{3KNÁ z<sup>a</sup> U{ \_3/4Z{0N{ T{0l "ÚT{Æ  
"zp{p}c{N{m{=i Q{ D{D{m{z{b{e{i " em{e{i Q{d{z{0\{p{c\{q{Q{f{d\{p{m{e{i "d{N{ o{3e=i "d{,  
ü "b{z {d{N{ b{ß \_ß=i "d{ @Q{". Nd{N{p{c\{+ o{3N{f{n" = p{b{3N{f{n". Bb{0c{Q}  
p{f}0î N{ p{øbc{, p{N}Áö {Z, p{D} \_{ p{V{Q{p{f, p{2}b{h{Q{d{0.

p}ÚN{m{=o{3p{0U{p{2d{z=c{0N{z=c{ C z=b{m{0=0{3@, B, H @d{|@xn{n}n{0 {N{ @=Z|m{.

p{1 {U=T{ @=Z. {k{V= @ð H= \_p{f=b{N{c \_h{z"? C {k{W|ð0 {N{3/4; @ð N{^ \{ @=Z|m{.

"{ " \_3/4p{2}b{h{l {z=z-Á \_{ p{Zn" \_h{Q{o{3N{1/4n". {p{c\{D{n", {o{3N{f{n" p{d{N{  
\_ðz{d{0p{| Al {m{b{e{o{3u}»=[ç ez0ö, ø m{ {n{0 {N{Z{N}n{ðñ0; N{N{ \_}\ç D{em{N{h{ð  
{go|n{ðñ0; p} \_{ eD{ {S}Ün{0 {b{3{s}n{ðñ0 @=Z|m{. p}ÚN{m{=o{3p{U{ {b{3{s}n=Z.  
z{b{ p}N{U, @m{b{3{s}n".

"Z{Q{1/d}p{2Z;" @d{0 p{Z{0 {, Q{^, p{U{ @ð p{c\{p{Zn"Q} ø \Q{1/4Z;" p{c\{Q{^}n{0  
({d{, N{1/4d{, Z=W{Z") N{0T{q}{Z=" @ð @d{ßl {= Tf»0T{Æ

{q{#n= {d{U}\{c}no{3KNZ; {b{e\{ @d{p{d{3/4b{e\{, p}Q{e\{, N{m{0b{e\{ @d{ \{|  
p{c\{p{b{m{ i {0n \_3/4N{Z{d{b{e\{. q{p{h" d{b{Z;ü "b{ @Á{Q} eZ{N{d{p{0k{î e=\N{Z{ð



Ũz|=Ũŧ @=Z. pžpŧ ħ ðn p!Q} eĖN{dŧj 1/Ė ð Eñz|=Ũŧ @=Z|mŧ.

Ũz Ũz b}mŧ{ zQ{^ Ũz Ũp{, ðñ^ Ũz Ũp{ @ð mŧ\{mŧ}oŧ@l ħd} zQ{^ Ũz Ũp{ z^ Ũŧ ŨN}o|no% dŧ ŨQ{^} ŨNŧ (z\_ß, mŧ¼ \_pŧ Q{^}n) @ð Ũp{ }T}mŧ Ũbđ {qŧNññ m}p{ }d{V, p{c}BT}mŧ Ũñ I Nñŧ= Tñŧ. p{d}z\_ão% d{N{d}ŧbçKNZ; d³Z; ¼Tŧeŧbç p{mŧNŧ; Tŧ¼TŧbçB=NŧNŧ; @l \_ŧA eðo% ŨNñ q{ŧoŧ}.

" Ũ " @dŧ @xñŧ p{ }ZNŧp² bZ pçAdZ p{ç\{ð z^ ç=Tŧ\}ðNç" Ũŧ ŧ=" @dŧ \_ŧN{ zmbu}c}mŧ=Q} p{ }ZNçpŧpŧ=bc- Ũp{çdñno%KNŧđ{ŧpŧ\ð " Ũŧ ŧ=i Nŧ\ŧ" @dŧzŧŧ\{ \_zŧ. k}mŧ}ðŧ \_ðQççd{dŧŧ ŧ, îNAd{ Hñññ NŧŨŧ ŧ. @pŧ Ũŧ ŧ=o%K=Z; ùb{ \_ðŧ Ddŧ zmbŧ ð W|ŧb}pŧ@ðñŧ, \_ðŧ \_eŧd{ }ŧ\_ {ðŧ}pŧ@ðñŧ, Nññ Nŧŧ zp{ }l { }ðŧ zbf}ŧpŧ@ðñŧ oŧ} z z ŧ}pŧ@ðñŧ @=Z|mŧ. C z z ŧ}pŧQ{mç p{dNç @d}bçđŧç\ç ħ z Nñ, C b{ŧQŧz ŧ ("gd}ø" dđ+) f}q}E\_ {ŨNçC p{çŧdŧ@pŧ}z d{ @l ħ=bc bđdŧuwŧä "mŧ E\*" @=Z|mŧ.

zñk{Q} @ñŧ @l ŧNŧ\_ß= ŧ}x}f}Nŧ, N¼T² NĖz\ç ŧñð @ñŧ N}Nŧ½ ŧ@bcñb{f}Nŧ, j 1/4Q} N¼mŧNŧ\{z\ðbçd}mŧŧ}Nŧ. C p{ç\çZpŧ Q{p{ŧŧQ{çE f}Nŧŧ ŧ @=Z|mŧ. Bo|Qŧ Cz^ Ũŧ ŧ @ð KNZ ħ=bc d}mŧ^ @=Z. A\ŧ}ð l ŧ=b{ Aq{ zŧŧ^ @=Z. N¼ {N{ zŧŧndŧ N³mŧŧ çdŧ^ @=Z.\{ "x N¼= \_}zŧŧ ŧ. "\_}zŧŧ ŧ=" @dŧ p{ }ZNç@zn" @ñŧ Ac}ŧ ŨNŧ, AckÀ Ũŧ, AcbŧNŧ @l ħdžŧZ;NŧA øz ŧ { }ðŧ øz Ũmç p{dNç ¼çd{øç{Q} p{ }\ŧ { }\ðNçEmŧŧ}zŧŧ {z\ç½ ŧ D=Z|=.

p{çŧŧŧ ŧ= (@ŧ) xñŧ bŧl ŧ, Tñp{çŧNŧ} o% ŧŧ ŧ= Q{mç Q{ço%KNŧ}mç p{çTŧZŧTŧŧ. BNŧ "L= dŧ d}mŧl {^}l ŧ" @dŧbç@ŧ) xñŧ Tñp{çŧNŧ Q{mç AOmŧ Tŧ \_}dŧ.

N}wç D, ŧ}x}m}pŧ, Ũđñ= Ddŧ Ũö=Q{bŧpŧ\_ñ Q{ bŧŧ @ð @=Z|mŧ Nñ m}Vpŧ=Ũçbŧŧŧ

DdQ N3Zp=Q}nð oNAeZ\ç p{mçf1/2 }l m}, Iø"Zi?

"U{ }="NCB=QZ"o3/4zp{d}mNç "Zp|o+ oP} "Zl z".

B=QZ"o3/4 "Z", "Zj"n" \_h"Q{o3/4 "U" W|\_n" Nq{N" Z3I=Q0+ @dQ p{ZNCzm@l "d{ \_h"Q{ "U N3/4=".

Bb{ } ^o3/4p{f}l }l UN{ @=Z.p{ç\}N{n bwç @ð @m. C p{ç\}N{n bw}dQ B=QZ"o3/4 "Z h1/2 } zZ+ @=Z|mç. "Z\zZ+ @=Z. p{ç\}{bç\_}n" DdQbç @d{ @m z"Omççd} B=QZ"o3/4dç \_h"Q{o3/4dç Bbçp{ç\}{zwçä DdQ Uqç n=.

"Z N3/4p2 }+ @dQ mç}l {d{d}p{dð U ç mç {f}\ç} @ð dç}\_{òQçTç}. bç p{U\_ QD N}pçtd{p}mç dç}\_{m}td{mçQçç}l {mç}l {dç" zDNç Tçpç\ç

UqçNç zBç, UqçNç TNAmçp2" bçd{p{Zno3/4 "U" Nç p{ç\}{Nç u" z=i=cç oPç p{dç TçNç=Z"d}Odç. B=\_NçUqçNç TNAmçIø"Z| @ð Am}Z ç\Nç\ç @bç" Bdbçm z"Qmç" @dQ p{ZNCd} \_h"Q{t\_{ bç pçD}=\_ç Nç\ç{mçQçç}l {mç}l {dç" o3/4D=bç

Np+UÈçøqçøb}Unl {=o3/4VmçQçzmçhço3/4zmçð zmçpçççTçpUNç("p}Tmç") p{N}AöçZ ü"b{ NçmçAdç}\Z. @=b{NdçC zmçhð "Zf1/2" @dç}mç.

f}q}E\_{Un UED}pç{Ho|Qç pçE=bçNdçN{KNççdQ eZNA{Tç" \_}dç. m}VNç }lno3/4p{dç p{d{bç}ðQ N{n pç}n"Q} ø\QçEdç z«mç= mç/4 u}p{W|UðQ mçp{dç, çódç, Ançdç}@ð p{ç\}{N{n pç}n"Q} ø\QçEmç. oZp+o3/4"Zi t" @=Z.p{ç\}3/4pç\_{ Nq{N{C N{n pç}nð p}mç "Zj + @d}Omç. m}W|Nçd}ðNçp{TçEmç}i \ø3/4p{ç\}3/4pç\_{ Uç "Zj + dç=\çpç1/2bç Nq{N{A1 }l N{n pç}n" NçEdç{Oð "Zj aUZ+ @d}Omç. "NçZj aUZd+ @dQ p{Z B=b{ç3/4ç pçAdçDçdç "Zj aUZmç @dç}ðNçNç\ç}mç= Bbç- dçò3/4 ñZp "NçZj aUZ+ Tçd}d}ObçNdçNç