



pp{c}mcp{NZqBmkn}pk

h{Q{o}3/4p{c}\{Ncz=i=c{c}d{p}{Zn} p{c}\{1/4} {n p{f}f}O{i}N{p}m{N} z=z-A_ {d}{=} \cbQ{p}{i} @l "dp{f}@d @deD=b{c} _h{Q{o}3/4o{Nf}1/2b{f} N}{d} p}{Z;p}\N{p} p{c}\{z;p}{n} Am{f} N}{l} {n"Q} p{c}\{o}{f} @= _{f} Am{f} p{c}\{d}, p{c}\{Am{d}}, " p{c}\{" o{Nf}1/2 _{BZ} p{f}Z; m}_h{ T}{p}{i} "b{N}b{ N}{d}{N}p{c}\{d{o}ss}n f}Z" @ p{c}\{1/4}_ T{AN}{d} C _{k}{p}{l} " T}{p}{f}\{

p{f}f}Op{d} @=Z. p{c}\{f}p{b}{n}. p{f}p{d}O @=Z. p{c}\{m{f}Q}{n}. p{f}p{b}m{f} @=Z. p{f}Q{Am{f}. p{f}p{b}=b{@=Z. p{c}\{p{f}b}{n} Z. BN{A}\{I b{3/4}z=c{z}^a U_{f} z{d} T{a} D=\{D=\}\o N}{d} o{Nf}1/2 _{f} N}{d} Ho|Q{p}{f} {f=b}?

p{f}e{O}Zo{3/4}p{c}\{e{Zn}="Z. Dd}O{l} p{c} N}{d} p{f}e{O}ZN}{l} { @=Z. p{c}\{f}w{S}a p{f}b{m}{B=N} KN{f}{n} o{L}Q} Dd{O} N{1/4} x{m}{N}]{l} { . p{f}N{A}=Z; @=Z. p{c}\{N{d}{i}O{n} N{p}\}\ - u{p}{f}\{; N{b}{c}- N{1/4} x{m}{N}]{l} { .

oq}O{z}Z{O} = e{b}|o{3/4}p{f}c{An}{@d}{p}{Z}{d} p{f}f}O{i}N{@d}{@N}{o{3/4}p}\{f}d{f} T{f} t{d}{f}. N}{d} d{R}=Z" p{b}{3/4}p{f}c{An}{@=Z. k{f}u}{B}{o}, N{A}n{b}{m}{n} p{c}{U}{O}{m}{m}{d}{p}{l} @d}{@N}{ KN{A}Z. D=b{c} Bb}{V}{p}{d}{z}{x}{o{3/4}p{f}c{An}{N}{p} p{c}\{N}{p}{c}{U}{d}{d}{O} j}{b}{n}]{l} {^ z=i=c{p}{f}o{Z}3/4

p{f}p}{l}U{m}{f} @d}{O} p{f}o{U}\{d}{O} p{c}\{u}{m}{f} @d @N}{N}{b}, p{f}m{c}{f}o{U}\{p}{n}{f} @=Z. p{c}\{u}{m}{f} p{m}{f} @d @N}{f}{l}? b{f}{f} \cb{Q}{m}{p}{c}\{p}{m}{n} z{f}T{AN}{f}b{N}{f}p{c} p{f}p}{f}U\{p}{n}{f}o{3/4} j}{n}{l} @Q{p}{d}{f}\{.

p{z0b@=Z.p{c\{zb{n", p{m p{z0l +. Bo|Q|p{l U\{@=Z.p{c\{Iw\$ä p{m Bmp²
KNZ; p{d{0m{ 300 @l "d{p{c\{p{c\w\$ä _1/0 Üb{N}D} p{p{c\{p{c\{=bd{0b{c
p{p{l}ÜZ;N{V=.

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

p{m{q{Q|N}b{ d}\{î m{zî o{u}bø " e{zÁm{p{p{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}ÜN{m{=o{4KNÁ z^a U{ _3/4Z{0N{ T{0l "ÜT{Æ
"zp{p}c{N{m{=i Q{ D{D{m{zb{e{i " em{e{i Q{d{z{0\{p{c\{q{Q{f{d\{p{m{e{i}d{N{ o{4e=i}d{,
ü b{z {p{d{N{ b{ß _ß=i}d{ @Q{". Nd{N{p{c\{+ o{4N{p{f{n" = p{f{0{4N{p{f{n". Bb{0c{Q}
p{f}0î N{ p{øbc{, p{N}Áö {Z, p{D} _{ p{V{Q{p{f, p{b{h{Q{d{0.

p}ÜN{m{=o{4p{0Üp{2d{z=c{ÜN{z=c{ C z=b{m{0=0{4@, B, H @d{|@xn{n}n{ ÜN{ @=Z|m{.

p{l {U=T{ @=Z. Ük{V= @ð H= _p{f=b{N{c}ñ z? C Ük{W|ð0 ÜN{4; @ð N{^ \{ @=Z|m{.

"Ü" _3/4p{2{b{hl {z=z-Á _{ p{l}Zn" _ñ Q{o{4N{4m. Üp{c\{D{ñ", Üo{4N{p{f{n" p{d{N{
_ðz{d{0p{d| Al {m{b{e{o{4u}=[ç ez0ö, ø m{ {l{n{ ÜN{Z{N}n{ðñ0; N{m{N{ _}\ç D{tm{N{h{ð
Ügo|n{ðñ0; p} _{ eD{ {S}Ün{ Üb{3{s}n{ðñ0 @=Z|m{. p}ÜN{m{=o{4p{l}Ü{ Üb{3{s}n=Z.
zb{ p}N{Ü, @m{b{3{s}n".

"ÜQ{d}p{2Ü;" @d{0 p{l}Zð Ü, Q{^, p{l}Ü{ @ð p{c\{p{l}Zn"Q} ø \Q{4E" p{c\{Q{^}n{ð
({d{, N{4d{, Z=W{Z") N{0T{q}Ü=" @ð @d{ßl {= Tf»0T{Æ

Üq{#n= Üd{Ü\{CAl {c}no{4KNZ; Üb{e\{ @d{p{p{d{3}b{e\{, p}Q{e\{, N{m{Üb{e\{ @d{ \{
p{c\{p{b{m{ i Ü _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. pžpřh ðn p!Q eĚN{dŧj 1Ě ð Eñz=Ũŧ @=Z|mŧ.

Ũz Ũzb}mŧ zQ{^ Ũz Ũpř, ðñ^ Ũz Ũpř @ð mŧ\{mŧ}oŧl "d} zQ{^ Ũz Ũpř z^ Ũŧ ŨN}o|no% dŧ ŨQ{^} ŨNŧ (z_ß, mŧ¼ _pŧ Q{^}n") @ð Ũp{ }T}mŧ Ũbđ {qŧNŧ m}p{ }d{V, p{c}BT}mŧ Ũñ I Nŧŧ= Tŧŧ. p{d}z_ão% d{N{d}ŧbŧKNZ; d%Z; ¼Tŧeŧbŧ p{m}Nŧ; Tŧ¼TŧbŧB=NŧNŧ; @l "ŧA eðo% ŨNŧ q{ }ŧŧ}.

" Ũ " @dŧ @xŧ p{ }ZNŧp{ }bZ pŧAdZ p{ }ŧ\{ð z^ ç=Tŧ}ðNŧ" Ũŧ ŧ=" @dŧ _Nŧ zmbu}c}mŧ=Q} p{ }ZNŧcpŧpŧ=bc- Ũp{ }ŧñno%KNŧđ {ŧpŧ\ð " Ũŧ ŧ=i Nŧ\ŧ" @dŧzŧŧ\ŧ _zŧ. k}mŧ}ðŧ _ðQŧçd{dŧŧ ŧ, îNŧđ{ Hŧđñ NŧŨŧ ŧ. @pŧ Ũŧ ŧ=o%K=Z; ù"b{ _ðŧ Ddŧ zmbŧ ð W|ŧb}pŧ@ðñŧ, _ðŧ _eŧd{ }ŧ} _ðŧ}pŧ@ðñŧ, Nŧñ Nŧŧ zp{ } { }ðŧ zbf}ŧpŧ@ðñŧ ŧ} z z ŧ}pŧ@ðñŧ @=Z|mŧ. C z z ŧ}pŧQ{mŧç p{d}Nŧ @d}bŧđŧŧ\ç ŧ z Nŧñ, C b{ }ŧzŧ ŧ ("gd}ø" dŧ+) f}q}E_ {ŨNŧC p{c}ŧŧ@pŧ}z d{ @l " =bc bŧđŧŧŧä "mŧ E*" @=Z|mŧ.

z nk{Q} @ñŧ @l ŧ Nŧ_ß = ŧ}x}f}Nŧ, N¼T² NĚz\ç ŧñð @ñŧ N}Nŧ½ ŧ@bcNŧbŧf}Nŧ, j 1ŧQ} N¼mŧNŧ\{z\ðbŧd}mŧŧ}Nŧ. C p{ }ŧ\çZpŧ Q{p{ }ŧQ{ç}E f}Nŧŧ ŧ @=Z|mŧ. Bo|Qŧ Cz^ Ũŧ ŧ @ð KNZ =bc d}mŧ^ @=Z. A\ŧ}ð l ŧ=b{ Aq{ zŧŧ^ @=Z. N¼{Nŧ zŧŧndŧ N% mŧŧ cđŧ^ @=Z.\{ "x N¼z= _}zŧŧ ŧ. " _}zŧŧ ŧ=" @dŧ p{ }ZNŧ@zn" @ñŧ Ac}ŧ ŨNŧ, AckÀi Nŧ, AcbŧNŧ @l "dŧZŧŧŧ øzŧ { }ðŧ øzŧmŧç p{d}Nŧ_çd{ }çŧQ} p{ }ŧŧ { }ðNŧEmŧŧ}zŧŧ {z\ç½ ŧ D=Z|=.

p{ }ŧŧŧ ŧ ("ŧ) xŧŧ bŧl ŧ, Tŧp{ }ŧNŧ) o% ŧŧ ŧ Q{mŧç Q{ }o%KNŧ}mŧ p{ }TŧZŧTŧŧ. BNŧ "L= dŧŧ d}mŧl { }ŧl { }" @dŧbŧ@ŧ) xŧŧ Tŧp{ }ŧNŧ Q{mŧç AOmŧ Tŧŧ }dŧ.

N}wŧ D, ŧ}x}m}pŧŧ, ŧđñ= Ddŧ ŧö=Q{bŧpŧŧ_ñ Q{ }bŧŧ @ð @=Z|mŧ N}ñ m}Vpŧŧ=ŧcbŧŧŧ

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{©\}N{n bwç @ð @mç. C p{©\}N{n bw}dQ B=QZ"o3/4 "Z h1/2 } zZ+ @=Z|mç. "Z\zZ+ @=Z. p{©\{bç_}n" DdQbç @d{ @mç z"Omççd} B=QZ"o3/4d© _h"Q{o3/4d© Bbçp{©\{zwçä DdQ Uqç n=.

"Z N3/4p2 }+ @dQ mç}l {d{d}p{d}ð U z mç {f}\ç } @ð dç { _òQçTç. bç p{U _QD N}pçtd{p}mç dç {m}td{mçQçc}l {mç}l {dç" zDNç Tçpçç\ç

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

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

f}q}E_{Un UED}pç{Ho|Qç pçE=bçNd{N{KN{çdQ eZNA{Ti" _}dç. m}VNç }lno3/4p{dç p{d{bç}ð U N{n pçn"Q} ø\QçEdç z«mç= mç/4 u}p{W|Uð U mçp{dç, çódç, Ançdç@ð p{©\{N{n pçn"Q} ø\QçEmç. oZp+o3/4 "Zi t" @=Z.p{©\3/4pç_{ Nq{N{C N{n pçn}nð p}mç "Zj + @d}Omç. m}W|Nçd}ðNçp{E m}i \ø3/4p{©\3/4pç_{ Uê "Zj + dç=\çpç1/2bç Nq{N{Al }l N{n pçn" Nçzçd{Oð "Zj aUZ+ @d}Omç. "NçZj aUZ+ @dQ p{Z B=b{ç3/4ç pçAdçDzçdç "Zj aUZmç @dç}ðNçNç\ç}mç= Bbç- dçò3/4 ñZp "NçZj aUZ+ Tçd}ðbçNd{N{

$m^2 \setminus \{eZn b\} m_{\frac{3}{4}d} \{i \ddot{E} \ddot{O} "Z\beta o+ @d\hat{O}Z, p\{^\circ \setminus \{eZn b\} m_{\frac{3}{4}d} \{i \ddot{E} " \hat{U} \ddot{o}+ i \ddot{E} .$
 $p\{e\ddot{O}m\ddot{O}=Z. p\{^\circ \setminus \{eZn \cdot N\ddot{d}\{N\} " \hat{U} \ddot{O} " i \ddot{E} \ddot{O} p\{e\ddot{O}m\ddot{O} \ddot{E} @d\frac{1}{4}T\{E$

" $\hat{U} \ddot{o} \ddot{i} l \{ " @d\hat{O} \hat{E} \hat{U} \{ \ddot{d} \hat{O} " \hat{U} \setminus \rho^2 d z d \ddot{o} + @d\hat{O} @\tilde{N} \{o\frac{3}{4}p\} \setminus \{ \{d\} \hat{O} m\{ N\frac{1}{4} b \ddot{m}\}. C$
 $oN\hat{A} \ddot{d} C " h\frac{1}{2} m \setminus \rho^2 d z d \ddot{o} + \hat{E} z = T \} \ddot{d} \hat{O} " T \{ \{ m \ddot{o} \hat{i} l \{ = " @d\frac{1}{4} T \{ E N \} \ddot{d} " h\frac{1}{2} m \setminus \rho^2 d z d \ddot{o} +$
 $@d\hat{O} p\{ \{ Z N \ddot{c} " \{ m \setminus \{ \ddot{o} \hat{i} l \{ = " @d\frac{1}{4} p\{ \{ Z p\{ m \frac{1}{4} N \{ Z ; D = b \ddot{c}$

$KN\{z=O\hat{U} \ddot{d} 3 T \{ \{ k \} Q \in T Q \hat{n} p\{ \{ o p\{ \{ @ \ddot{d} z = q \{ \{ = p \{ \{ A z = O \hat{U} \ddot{b} \} \ddot{d} @ = N \hat{n} \ddot{d} @ \ddot{d} \hat{O} = Z \ddot{p} N \hat{q} e A$
 $p^2 \ddot{D} \} \ddot{d} \hat{O} p\{^\circ \setminus \{ T \{ \{ k \} Q \in \zeta T \{ \{ \setminus \{ \setminus \{ \setminus \{ C p^2 \ddot{D} \} \ddot{d} \hat{O} 3 T \{ \{ k \} Q \in T \{ Q \hat{d} Q \setminus \{ A z = O \hat{U} \hat{n}$
 $k \} Q \in T Q \hat{n} = . D b \} z m \{ N \hat{c} 531 o \} \ddot{d} @ = N \hat{n} p^2 \ddot{D} \{ 5 + 3 + 1 = 9 . C 9 \ddot{d} 3 T \{ \{ k \} Q \in T Q \hat{n} =$
 $N \hat{d} \{ N \{ 531 \hat{n} k \} Q \in T Q \hat{n} = .$

$p \{ \ddot{D} \hat{O} \hat{P} \ddot{p} , N \frac{1}{4} n i \hat{O} z \ddot{u} l \{ = \frac{3}{4} KN \{ Q \setminus \{ \hat{d} N \} \ddot{d} , N \frac{3}{4} \} \ddot{d} \hat{O} N \} \ddot{d} z p \{ b \beta \hat{O} = \setminus \{ \{ T \{ \{ p \{ T \hat{A} \ddot{d}$
 $m \{ \{ Q \{ \{ \{ \setminus \{ o \frac{3}{4} b \hat{E} \hat{n} l \{ \ddot{d} \{ Q \{ \{ n \} H z \{ \hat{O} \setminus \{ \frac{3}{4} N \hat{d} \{ N \{ A \ddot{d} \} \hat{O} m \{ N \} \hat{n} KN \{ N \frac{3}{4} \} \ddot{d} \hat{O} " \hat{U} \hat{z} \hat{E} \hat{E}$
 $(z p \{ \hat{U} \hat{O} = \setminus \{ \{ T \{ \{ \hat{U} \setminus \{ H o \{ Q \frac{3}{4} p \} w \{ N \hat{c} _ \hat{d} l \{ o p \{ \{ . C z \ddot{d} T \{ \{ \hat{U} \setminus \{ @ z = k p \{ \{ @ d \hat{O} o z l \{ =$
 $p \{ \{ d \{ N \{ B z \hat{O} Z ; N \} n = o \frac{3}{4} d \{ \{ @ \tilde{N} \{ @ l \{ = b \ddot{c}$

$k \{ \{ Q \{ \{ m \{ \{ q \} \hat{E} = o \frac{3}{4} " p\{^\circ \setminus \{ p\{ _ \{ i l \{ " @d\hat{O} @\tilde{N} \{ m \} p \hat{n} \{ \ddot{d} \{ \hat{O} \setminus \{ \{ \{ " Z i m \{ l \{ m \setminus \{ \hat{U} l \{ \{ \ddot{e} N + @d\{$
 $z \ll m \setminus \{ \hat{E} \hat{U} \{ \{ n \} p \} \setminus \{ \} m \{ .$

"Z" $p\{ \{ \{ s \} I \hat{o} \ddot{Z} = Z . B = Q \setminus \{ o \frac{3}{4} Z N \} m \{ \{ N \} m \} n N \hat{c} KN \{ KN \{ @ x m \{ \{ D d \} \hat{O} k \} z DT \} \hat{E} m \{ o \frac{3}{4} Z N \} m \{$
 $_ \{ N \} m \} n \frac{3}{4} p^2 \hat{b} \hat{n} l \{ \{ " p\{^\circ \setminus \{ " p\{ \{ Z n \cdot T \} n D d \} \hat{O} l \{ . N \} \ddot{d} _ \hat{n} \{ Q \{ o \frac{3}{4} Z N \} m \{ \{ N \} m \} n N \hat{c}$
 $\hat{o} \setminus \hat{O} \setminus \{ @ x m \} n \cdot D d \} \hat{O} Z N \} m \{ \frac{3}{4} p\{^\circ \setminus \{ p\{ \{ Z n \cdot _ \hat{n} \{ Q \{ o \frac{3}{4} o p \{ \{ .$

$m^2 \setminus \{ m^3 \hat{P} \{ N \hat{A} \setminus \hat{d} \ddot{d} N \hat{A} \setminus \hat{d} N \hat{e} b \{ o N \hat{A} = T \hat{m} \{ , H = b \{ N \setminus Z . m^3 \hat{A} \{ \ddot{u} \hat{b} \{ H N \hat{A} \setminus \{ \hat{o} n i \hat{K} \} , p\{ \{ = b \{ d \hat{O}$
 $m^3 \hat{A} \{ , p \hat{d} N \{ d \hat{O} m^3 \hat{A} \{ N \hat{q} e m^2 \setminus \{ m^3 \hat{P} \{ N \hat{e} b \{ o N \hat{A} o \frac{3}{4} N \{ p \hat{E} = b \{ N \hat{d} \{ N \{ p\{^\circ \setminus \{ m^3 \hat{P} \{ N \hat{A} \setminus \hat{d} \ddot{d}$
 $o \frac{3}{4} p + o \frac{3}{4} \hat{U} \hat{p} l \{ = " @ = Z \{ m \{ . C m \{ \setminus \{ N \hat{A} \setminus \hat{d} o \frac{3}{4} N \hat{A} m \{ \hat{A} \hat{d} \hat{E} V n \cdot z \ddot{d} N \hat{p} \{ \{ \ddot{d} \{ N \{ \hat{m} \{$

TēlŃN{=Z© N}nxē= T{p}m{Z. p{dbq{=o¼BzŃZ|NBol N{ ģ{ TēlŃN{=Z© N}nxē= T{p}m{Nēd^ad|D=Z|m}. BZ p{Z; "Ūpl {o+ N{ ģ{ TēlŃN{=Z© N}n= p{c} T{ Ū{d}N{ Bē= o{ N{ N{ Ūē }ŃC j }_}N}ñ Aē}_d{.