

›Ç=e ËT] SUI^" ¾S<Á

¾f" <" <p ¢`e

›^}— S"ðp `Sf

|TÎúH

o¬_U ÃqS wWG

o¬_U î«x ÃHWp

fUI`f T>'>e,`
 ›Ç=e ›uv 1996 ¯.U.

T ¨ < Ý

	Ñê
SÓu=Á - - - - -	1
³ / ₄ ϕ`c< u=Ò` - - - - -	2
Ÿ1—¨< - 4—¨< XU¨f- - - - -	3
Ÿ5—¨< - 8—¨< XU¨f- - - - -	21
Ÿ9'—¨< - 12—¨< XU¨f- - - - -	31
Ÿ13—¨< - 16—¨< XU¨f- - - - -	49
Ÿ17—¨< - 20—¨< XU¨f- - - - -	58

KĚT] SUI^" ¾S<Á Te}ª"mÁ ¢`e ¾>^}—" < S"ðp `Sf ¾¢`e SêNõ

SÓu=Á

K>^}—" <" ¾SÚ[h" < S"ðp `Sf ¾Teª"mÁ ¢`e "£" ÁI" SÖ<! u=²I ¾¢`e SêNõ
" <eØ ÁK<f" }Óv^f" ýaËi,,< c=ÁÖ"pl S<K< ¾Te}T` ðnÉ KTÓ-f KTSMÿf 'ÓÌ 'f
TKf "' <:: ¾`e Ö"ja Se^f ²=I ÁÍ "Ç=Á`c< Te%oK< ¾Te}T` ¡KAff" ¾e^ MUÉf
¾ÔKu} **SH@Æ**" u" <M Ád" <pM::

`e ¾T>Ád¿f ShhM u²=I ¾¢`e SêGö ¾c¿f" ÁIM k×Ã'f Ã•[ªM:: ¾SêNõ Ñê (p`ê)
vKñf fef S"ðp `Sf Ýk[u<f ¾¢`c< Sélöf Ò` }SddÃf >K" <:: ¾SËS]Á‡ Zef }Óv^f"
>"É ýaË¿f ¾T>Á}Ý<¿f ¾`e" ¾Tc}T` " ¾}T] <" ¾ST` G<'@ K=ÁÇw\ eKT> <K<f
¾ST` Te}T` Hw,,< /¾fUG`f S`Í SX]Á< "' <:: G<K}—" < ýaË¿f ¾T>Á}Ý<[" < uT
%u[cu< " <eØ eLK" < ¾f/u?f x c=J" `eU ÃI"' < Ñ<ÇÃ u```` ¾T>SKÿ~f ÄJ"M::
"Á K?KA‡ S"ðk `Sf G<K< >T"] u`Sf G<Kf Ñ>²? Á¿M:: ¾¢`c< ¾TÖkLÁ ¿öM
uÿòM îw[n' ÓKU²"" ¿Kd Ã"H@ÉuM:: uSkÖMU KT>kØK" < S"ðp `Sf ¾ÓK-
" }Óv^© °pÉ ÝT²ÖËf [ÏU Ñ>²? ¾T>ÁeðMÑ" <" ¾SUI^" }ÝÃ ¾S<Á ThhÁ ¢`e
"Ç=Áeu< ÄÖ¾nK<::

G<K<U SUI^" u°ÉT@ M¿ ¾fUI`f H>Áf " <eØ ¾kñ "†" <:: ÃI"" ¾Y`~} S<Á ¢`e
TÖ"kp TKf "ÁSUI` c=cw ¾SÚ[h ÁÍ LÃ }Á`dDM K=vM >Ã<MU' ÄMI"U Ý²=I uLk
G<'@ °" <kf KTÓ-f" Ý`Sf `Sf ÁÑ-<f" °" <kf" MUÉ KK?KA< KTc}LKö fUI` ~ k×Ã'f
K=•[" < ÄÑvM:: U"MvfU uømf `Sf " <eØ Ý`e u%EL KT>SÖ< SUI^" >T"] K=J' <
Ã<LK<::

u²=I ¾¢`e SêGö " <eØ Se^f ÝSËS[f uòf uZc}—" < S"ðk `Sf TÖ"kmÁ LÃ Ý>T"]
Ò` ¾}eTS<uf" ¾ÓM" }Óv^© °pÉ Áe" <c<:: ShhM >Kuf wK" u>Uaf ¾K¿f"
>"vu= TKfU KThhM ÁkÆf" dU"f udU"f uT>Á²Ò¿f ¾fUG`f °pÉ " <eØ >Ã²"Ñ<f::

$\frac{3}{4}\text{>}\wedge\}\text{---}\text{< } S''\delta p \text{ } \text{~}Sf \text{ } \frac{3}{4}\phi\text{`e } u=\text{O` } \text{ `` `` } u\}\ddot{Y}_{\text{z}} \text{ } \frac{3}{4}\phi\text{`c< } S\hat{e}G\tilde{o} \text{ } \tilde{N}\hat{e} \text{ } \tilde{A}\tilde{N}\text{---}M:: \text{ } \ddot{Y}^2=\acute{A}U$
 $uSk\ddot{O}M \text{ } " \acute{A}\}KS\acute{A}\text{< } G<K< \ddot{Y}\text{>T"} \text{ } \text{O` } u\tilde{N}\text{---}f \text{ } \frac{3}{4}S\ddot{E}S] \acute{A}\text{< } \text{< } \frac{3}{4}\text{>}\wedge f \text{ } dU''f \text{ } Y^{\wedge} \text{ } \tilde{A}\ddot{E}U^{\wedge}K<::$

$SM"U \text{ } ^{\circ}\acute{E}M! \text{ } K\text{>}\wedge\}\text{---}\text{< } S''\delta k \text{ } \text{~}Sf!$

$\frac{3}{4}\text{>}\wedge\}\text{---}\text{< } S''\delta p\text{---}\text{~}Sf \text{ } \frac{3}{4}\phi\text{`e } u=\text{O`}$

$\ddot{Y}1\text{---}4\text{---}\text{< } XU''f$	$\ddot{Y}\text{>T"} \text{< } \text{O` } \frac{3}{4}S\}\grave{a}\text{~}m\acute{A} \text{ } ewcv$ $\}\acute{O}v\text{` } 5$ $\frac{3}{4}Te\}\text{~}T\text{` } /ST\text{` } Hw_{,,}< \text{ } c<$ $\}\acute{O}v\text{` } 6$ <ul style="list-style-type: none"> <li><math>\frac{3}{4}Te\}\text{~}T\text{` } /ST\text{` } Gw_{,,}< \text{ } \frac{3}{4}fUI\text{`f } S\text{`}\acute{I} \text{ } SX] \acute{A}<</math></li> </ul> $\acute{y}a\ddot{E}if \text{ } 7 \text{ } \tilde{A}\ddot{E}U^{\wedge}M\text{---}$ <ul style="list-style-type: none"> <li><math>\frac{3}{4}Te\}\text{~}T\text{` } ST\text{` } Gw_{,,}<</math></li> </ul> $\ddot{Y}\text{>T"} \text{< } \text{O` } SKe\}\text{---} \text{ } \frac{3}{4}\acute{y}a\ddot{E}if \text{ } ewcv \text{ } T"H@ \acute{E}$
$\ddot{Y}5\text{---}\text{< } - \text{ } 8\text{---}\text{< } XU''f$	$\acute{y}a\ddot{E}if \text{ } 7 \text{ } \tilde{A}\ddot{O}\text{<}knM$ $8\text{---}\text{< } UM\ddot{Y} \text{ } \tilde{A}H@ \zeta M \text{ } (uTe\}\text{~}T\text{` } /ST\text{` } Gw_{,,}< \text{ } \text{>}\ddot{O}nkU \text{ } L\tilde{A}) \text{ } UM\ddot{Y} \text{ } T"H@ \acute{E}$
$\ddot{Y}9\text{---}12\text{---}\text{< } XU''f$	$\}\acute{O}v\text{` } 17$ <ul style="list-style-type: none"> <li><math>\frac{3}{4}Te\}\text{~}T\text{` } ST\text{` } Gw_{,,}< \text{< } - \text{ } u\text{>}vu=\text{< } \acute{A}K< \text{ } '\tilde{N}a<</math> $\acute{y}a\ddot{E}if \text{ } 8$ $f/u?f \text{ } uT\%u[cu< \text{< } e\emptyset$
$\ddot{Y}13\text{---}16\text{---}\text{< } XU''f$	$^2\ddot{O}'\text{---}\text{< } UM\ddot{Y} \text{ } (\ddot{Y}\}\text{~}T]\ddagger \text{ } \text{O` } uT\text{>}\acute{A}[\tilde{N}\text{~} \text{ } Se\}\ddot{O}w\text{` } L\tilde{A} \text{ } UMif \text{ } T\acute{E}\text{`}\acute{O})$ $\}\acute{O}v\text{` } 18$ $18G \text{ } - \text{ } \frac{3}{4}\text{>}\wedge\}\text{---}\text{< } S''\delta p \text{ } \text{~}Sf \text{ } \frac{3}{4}\}\text{~}\ddot{O}M \text{ } \}\acute{O}v^{\wedge} \text{ } \text{ } ^{\circ}p\acute{E} \text{ } S\ddot{Y}Ke$ $18K \text{ } - \text{ } \frac{3}{4}S''\delta p \text{ } \text{~}S\sim \text{ } \}\acute{O}v\text{` } \text{ } jKd\text{<} \text{~}KU^2\text{<}$
$\ddot{Y}17\text{---}20\text{---}\text{< } XU''f$	$\}\acute{O}v\text{` } 19$ <ul style="list-style-type: none"> <li><math>KSUI^{\wedge}\text{<} \text{ } \}\ddot{Y}\tilde{A} \text{ } \}\text{~}S<\acute{A} \text{ } Thh\acute{A} \text{ } fUI\text{`f } Tk\acute{E}</math> $\frac{3}{4}S\acute{U}[h \text{ } \frac{3}{4}\phi\text{`e } U^2\text{<} \text{ } ewcv$

Ÿ1—“< - 4— XU”f

$\frac{3}{4}^2 = I$ $\frac{3}{4}\phi$ `e SêNö p`ê (ió”) ŸK?KA‡ S”ðk `Sf Ò` ÃSdcLM:: Ñ>²?” u>Òvu<
”Ç=ÖkS< KS`Çf Y^” u>^f XU”f }KÃ...M::

uSËSJÁ‡ >^f XU”f `e:-

- Ÿ>T"] Ò`  $\frac{3}{4}f$ ”<”<p ewcv Ã•`M::
- }Óv` 15” uTÖ“kp Ÿ>T"] Ò` ”<ÃÃf TÉ[Ó Ã•`wM::
- }Óv` 16” uTÖ“kp Ÿ>T"] Ò` S”Á $\frac{3}{4}f$ Ã•`uM::
- $\frac{3}{4}ya\ddot{E}if$ cvf” Å[Í >”É” G<Kf Ãc\” Ÿ>T"] Ò` SKe}— $\frac{3}{4}ya\ddot{E}if$ ewcv T”H@É
Ã•`uM::

Ÿ>T"] Ò` ¾T>"H@É ¾SËS]Á ewcv

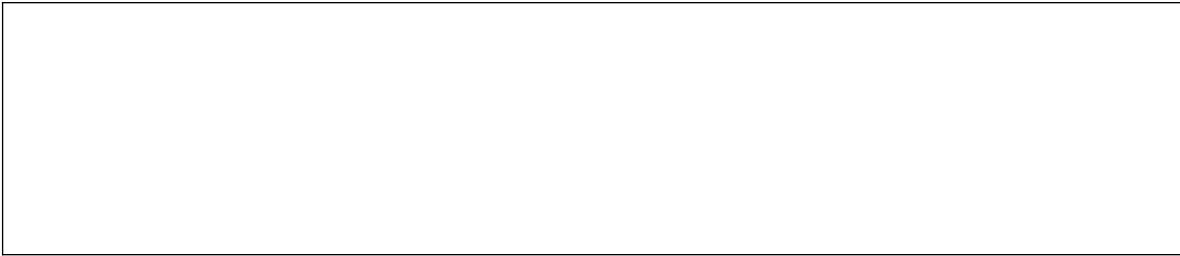
ˆ^}— S"ðp `Sf

u>G<'< c`f u¾eucv‡ "Å}KSÅ"< SÑ-f Ã•`wM:: ¾`e" ¾>T"] Ö""^ Ó"—<'f eŸ ¾
ç`c< TÖ"kmÁ S"ðk `Sf É[e K=²Mp ÃÑvM:: Ÿ²=I }KUÊ>© ewcv ¾TÃÖ< u=J"U
"£" Ÿ>T"] Ò` }Ñ"~<G< M}"Á¿uf eKðKÒ<G<f Ñ<ÇÃ >ekÉT<G< uTkÉ ewcv"<"
"<Ö?T uj' S"ÑÉ ¾UfÖkS<uf SJ'<" Á[ÒÓÖ<:: uSËS]Á"< ewcv<G< ¾"<ÃÃ<
fŸ<[f >É`Ñ<f::

Ÿ>T"]ª Ò` ¾T>ÁÅ`Ô†"<" k×Ã Ømf ewcv< KTkÉ °ÉK<" ÃÖkS<:: ¾²=I Ñê k]"<
;öM uewcv"< Te`h ¾T>Ã²<uf '""<::

M"Ñ["< ¾U"Å"< 'Ñ`

Ÿewcv"< ¾}"cÆ Te`h<



$\frac{3}{4}$ }Óv` 15 $\frac{3}{4}$ ST]Á êG<ö<

$\frac{3}{4}$ Te}T`"/ST` Gw,,< l'w

eK Te}T` /ST` Gw,,< eKw²< $\frac{3}{4}$ }KÁ¿ ~Ã',< Gw,,< $\frac{3}{4}$ T>Áeu<uf w²<"
 $\frac{3}{4}$ }KÁ¿ S"ÑÊ< >K<:: $\frac{3}{4}$ '²=l }Óv^f" $\frac{3}{4}$ '²=l S"ðk ~Sf $\frac{3}{4}$ SËS]Á ýaË;f }Óv^f fÿ<[f
ÿ'²=l Gw,,< S"ÿM $\frac{3}{4}$ Øm,,‡" Gw,,< >ÖnkU LÃ '""<:: K²=l KSËS]Á"< }Óv`
 $\frac{3}{4}$ U"H@Ã"< ($\frac{3}{4}$ U""d"<) eK $\frac{3}{4}$ c"< ÃM Gwf '""<:: - ÁU l'w '""<::

`e uSUI`f K}T]<U uT>Áe}LMñf °""<kf $\frac{3}{4}$ SËS]Á Á[l $\frac{3}{4}$ c"< ÃM (Gwf) 'f' 'Ñ` Ó"
u`ÓÖ~f` `e w‰o >ÃÃK<U:: }T]< ^dt""<' >e}T]‰ot""< " `e u^dt""< K`e
 $\frac{3}{4}$ T>Á"öK<f $\frac{3}{4}$ ^dt""< °""<kf" ÁÇu\f MUÉ >L†""<:: "uM Ømf Sélöf u=•`U ~ÃU
vÃ•`U ~ÃU K?L T,]ÁM vÃÖkS< $\frac{3}{4}$ cL >"Åuf' ÃM" <KA ÁL†""< "xf }T]< $\frac{3}{4}$ }VL ;ðM
>Kf:: uT>Áe}U\uf Ñ>?² $\frac{3}{4}$ T>Áe}U\f" fUI`f KSuMçÓ }T]< Hdv†""<" KTÒ^f U" ÁIM
>pU "ÇL†""< u>Uaf K=eK< Ã<LK<::

K}K $\frac{3}{4}$ ~LT c=vM ;ðM" SÔw-f /T $\frac{3}{4}$ f KT><K< c< Áeu<:: K?KA< $\frac{3}{4}$ □e□ö >vLf □`e
KT>Áe}U\f fUI`f ~ÃU KT>c\f Y^ °Ñ³ TÉ[Ó $\frac{3}{4}$ T>Áe<M $\frac{3}{4}$ }K $\frac{3}{4}$ °""<kf" S<Á >L†""<;
 $\frac{3}{4}$ }T]< "LÐ<' K?KA< $\frac{3}{4}$ "[Ç""< Tlu[cw >vLf' $\frac{3}{4}$ Ów`" W^}™<' 'ÒÈ<' >U^Æ<e □Ñ³
K=ÁÃ`Ñ< Ã<LK<"; uÖ?"' uf^"ep`f" uSÑ"— >"vu= $\frac{3}{4}$ T>c^""< T""<; uTlu[cu<
""<eØ ÿT>•\ S]< Ò` U" ÁIM Ó"—<f >Kf; uep`f }Óv^f ""<eØ $\frac{3}{4}$ "vu="< l'x<
Ãd}óK<";

Á"Ç"Ç†""< K=Ák`u<f eKT><K<f MUÉ TKfU eKT>cÖ<f $\frac{3}{4}$ vKS<Á S[l
eKT>'Ó\f]ç<' u}K $\frac{3}{4}$ `°e eKT>Ák`u<f $\frac{3}{4}$ uKìÑ Hdw Áeu<::

UdK?<

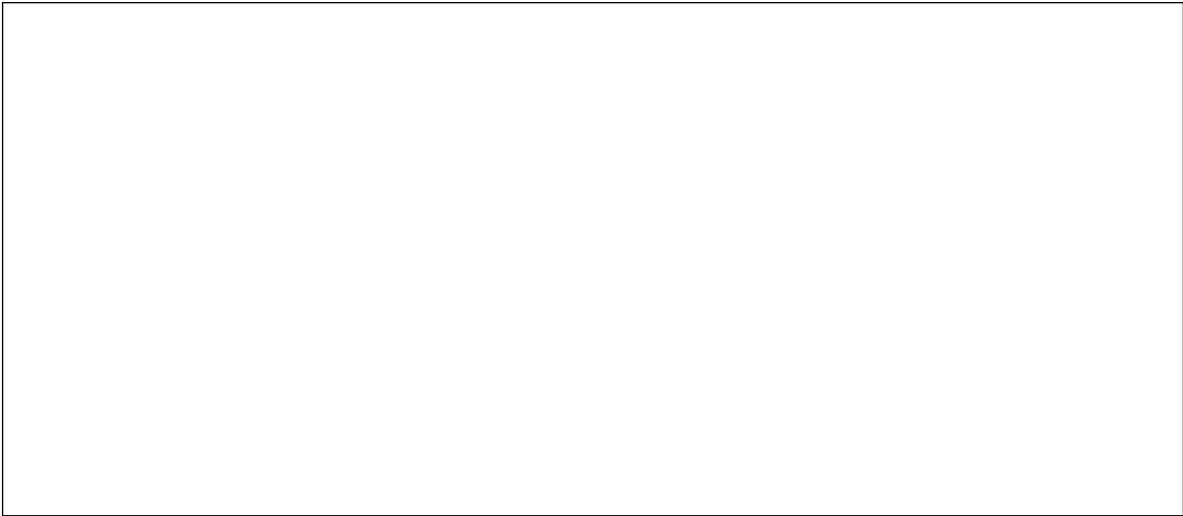
1. $\frac{3}{4}i\ddot{o}K< \}T\} < \frac{3}{4}>"vu= d\ddot{A}"e fUI`f uT>\acute{O}\ddot{O}' <uf \ddot{N}u_ "<' ^{\circ}\hat{e}af" uT>\acute{A}i\acute{E}p \acute{y}a\acute{E}i\acute{f}$
 $\frac{3}{4}k\ddot{o} c"< "\ddot{A}U KT\%u[cu< \frac{3}{4}"<H \>p`xf \frac{3}{4}T>SK\ddot{Y}\}"< c"< eK"[Ç"< f/u?f \ddot{O}nT>$
 $S[\acute{I}<" Se\ddot{O}f \frac{3}{4}T><K< "t"<::$
2. $u\hat{O}[u?_{,,}< S"Y\ddot{M} \>KS\acute{O}vvf c=\bullet` KiU\acute{O}M" \frac{3}{4}T>\ddot{O}\ \acute{A}\ddot{N}` iT\acute{O}K?< \>K<"; \>"\acute{A}'^2=I \acute{A}K< c<$
 $ue'^2?\ddot{O} fUI`f "<e\emptyset eK \acute{O}\beta f \>\delta f "Ç=" \acute{A}\acute{z} S\acute{O}u' \ddot{A}\%_{oo}LM::$
3. $u"[Çf T\%u[cw "<e\emptyset \}i \} " \acute{O}\} < (" \acute{A} \frac{3}{4}M\acute{D}< \>vf \acute{A}K<) \>K<"; \frac{3}{4}'c< \frac{3}{4}>\ddot{N}LK\hat{e} \}H>M$
 $\frac{3}{4}s"s \}H>M uT>c\emptyset uf \ddot{N}>^2? \acute{E}\ddot{O}\ddot{o} \acute{A}c\times M::$

}Óv` 15

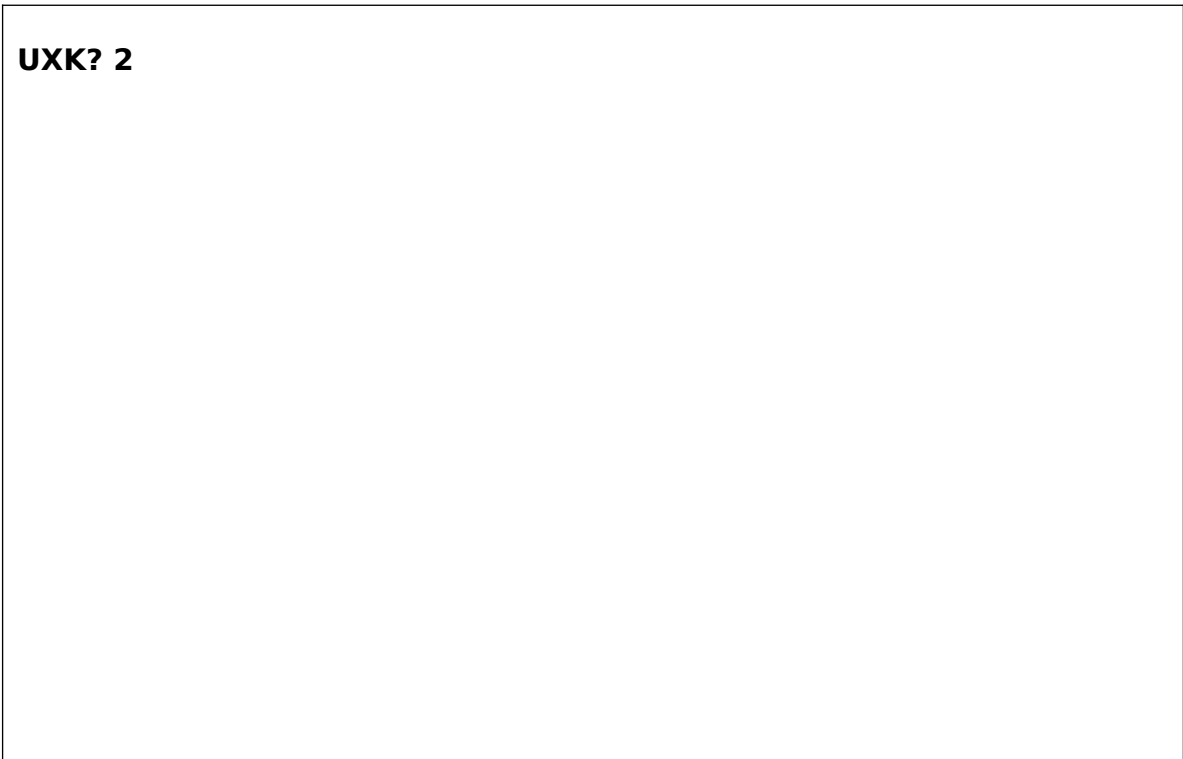
$\frac{3}{4}Te\}T` /ST` Gw_{,} < I'w$

$e+ eKT>\acute{A}e\}U\}f/\>t"< \frac{3}{4}fUI`f \ddot{A}'f / \ddot{A}'_{,,}< \acute{A}eu<:: uS" \acute{o}k \ddot{S}\sim \ddot{Y}T>\acute{A}e\}U\}f \frac{3}{4}fUI`f$
 $\ddot{A}'f "<e\emptyset \frac{3}{4}\}"c' / \frac{3}{4}\}"c'< `^{\circ}f<" u\}SK\ddot{Y}\} S'\acute{I} K=c\ddot{O}< \frac{3}{4}T><K< \}\ddot{O}v\> " \acute{O}\acute{E}<"$
 $\ddot{A}ST\} \acute{A} \} \acute{o}M "<e\emptyset TU\times f \ddot{A}<LK<"; \frac{3}{4}T>\%_{oo}M \ddot{Y}J' " \acute{E}f "'< \frac{3}{4}T>\acute{A}S\times D\ddot{t}"<;$
 $`e \ddot{Y}T>\acute{A}e\}U\}f/\>t"< \frac{3}{4}fUI`f \ddot{A}'f/\ddot{A}'_{,,}< `^{\circ}f< "\ddot{A}U K>"vu="< uT>\ddot{O}pU SM\ddot{Y}<$
 $\ddot{Y}T>\acute{A}^2\ddot{O}\}f \frac{3}{4}S\hat{e}N\ddot{o} `^{\circ}f< S"Y\ddot{M} \ddot{Y}"<\beta \frac{3}{4}S\ddot{O}< \}\ddot{O}v\> " \acute{O}\acute{E}< uT>\bullet \wedge t"< \>e\}^{\hat{a}}\hat{e}^* \>T"\ddot{A}'f$
 $K=\Ç w\ \ddot{A}<LK< wK" \frac{3}{4}T>\acute{A}evD\ddot{t}"<" Zef `^{\circ}f< uUdK?'f \acute{A}p`u<:: uSk\ddot{O}MU 'T'"$
 $"\acute{A}T>\ddot{O}w^2<' \}\ddot{O}v\frac{1}{4}\ddot{t} \} \acute{o}M "<e\emptyset \ddot{N}w\}"< U" "\acute{A}T>c\ 'c< \frac{3}{4}T>\acute{A}k`vD\ddot{t}"< Hdx<U$
 $J'< \ddot{N}K\acute{e}< \}T\}\ddot{t} eK`^{\circ}c< \acute{A}L\ddot{t}"<" \acute{O}^3u? KTÇu` " \acute{E}f "\acute{A}T>[Ç\ddot{t}"< \ddot{A}"\ddot{N}\}::$
 $\acute{y}a\acute{E}i\acute{f} cvf" uT>c\}uf \ddot{N}>^2? eK fUI`~ "Kf Hdw S"Y\ddot{M} \>"\acute{A}E" "Ç=\}\ddot{N}w\ eKT>\ddot{O}\frac{3}{4}I$
 $u" \acute{O}\acute{E}< \>S^{\wedge}[\emptyset L\acute{A} \emptyset"no K=\acute{A}\acute{A}`\ddot{N}< \ddot{A}\ddot{N}vM::$

UdK? 1.



UXK? 2



UXK? 3

›ËS /NDT/ "ÓÊ<" uST]Á ;öM " <eØ uST` Te}T\ H>Åf uSÒu' "Å ¾c"< Gwf S`Í
SX]Á< KSÖkU Zef }Óv^© Hdx< }IS³M::

›Ç=e ËT] SUI` _____ k" _____
›T"] _____ k" _____

ÿ>T"] Ò` ewcv T"H@É /ÿ}Óv` 15 u%EL ¾T>ÿ""

`e uT>Áe}U\ ¾ST]Á ;öM " <eØ ¾Òu³D†"< "ÓÇ Kk[u"< fUI`f ¾T>uï ›e}ªê*
Áu[;~ ²"É fef Hdx< k`u"<KM:: ›G<" `e TÉ[Ó ÁKwf ÿ>T"] Ò` uScwcw eKT>•`f
Hdw S`Á¾f" '²=I ¾}ÖqS<f Hdx< "Ëf }Óv^© K=J'< "ÅT><K< T¾f "'<::

ÿ²=I u< ¾k[u"<" "[kf ¾SËS]Á ;öM K="Á¿vt"< eKT>ðMÕ†"< 'Ña< KS²`²`"
G<K}—"<" ÅÓV ÿewcv"< Te`h<" KSÁ' ÄÖKS<vt"<::

Y^f" u}d" G<'@ KTÖ"kpj T[ÖÑÝ Ä]" ²"É ›T"] uSKTSÍ i~ LÄ ò`T†"<"
"Ç=ÁekUÖ< Áe"<dD†"<::

M"ÁÄvt" < ¾UðMÖ†" < 'Ña<

ÿewcv" < ¾}"cÆ Te" h<

}Óv` 16 ¾SËS]Á êG<ö<

¾Te}T]Á /ST]Á Gw,,< ¾Te}T]Á S`Í SX]Á<

¾Te}T]Á S`Í SX]Á< e"M U" TK<" "'<; ¾Te}T]Á S`Í SX]Á< TKf SUI^" fUI`~" u;öM "<eØ K}T]† u}hK S"ÑÉ KTp[w "Ç=<K< ¾T>ÖkS<uf ¾fUI`f SX]Á< Gwf TKf "'<:: ¾Te}T]Á S`Í SX]Á< ¾}KÁ¿ "†"<:: KUdK?:-

- ¾ST]Á Sélöf "ÄU K?KA< Sélöf' S'Ñu nLf' >fLe "ÄU ¾}[f Sélöf
- e°KA<' Tp<" %oo`,,<
- ö,,Ó^ö<
- ¾*Ç=Ä "ÄU ¾y=Ç=Ä "c?,,< /¾^Ç=Ä "ÄU ¾,K?y=»" ýaÓ^V<
- ¾S<²=n SX]Á<
- VËKA<
- KÑKé ¾T>J'< SX]Á< /SÓKÝ</ KUdK? KdÄ"e fUI`f Ñ³ ¾T>ÁÄ`Ñ<
- u²"f` '<a><" "<eØ ÁK< }Úvß 'Ña<
- lØ` ÁL†"< uÿ=e ¾T>Á²< x`Ê<" ""Ê<' ÅwÇu?<' ucK?Ç LÃ ¾U"ÖkUv†"< nLf "ÄU e°KA<

- }T]‡ "Ç=Á¿f 369" ucK?Ç LÃ IMß >É`Ô Séö" Ÿc\Ÿ SMe Ò` "Ç=Á`ÇÉ\ TÉ[Ó

'²=I }Óv^f KG<K<U ¾}e}Ula eM,,< Önt> ŸSJ"t"<U uLÃ SUI\ ¾}T]‡" Ó"³u? ðØ""< "Ç=[Æ Áe<LD†³M:: }T]‡ Á²ÒÍD†"< ¾fUI`f S`Í SX]Á< (¾""É ewex<) Ÿ²=IU uLÃ Kw²< ¾}KÁ¿ ¾H>dw }Óv^f K=ÁÑKÓK< Ã<LK<::

u>"vu= dÃ"e fUI`f eKSMi>UÉ^© Ñê< "uM cK}^< uT>Áe}U\uf Ñ>²? KT>cÖ<f ÑKé ÉÖö K=cÖ< ¾T><K< e°KA<' ö,,Ó^ö< "ÃU VÈKA< u=•\f ÖkT@ Ã•[³M:: u>"vu=f >g³ ÁK ŸJ' }T]< ¾}KÁ¿ ¾>g³ "Ã",,<" K^dt"< uVÈM'f K=ÁSÖ< Ã<LK<:: ÃI "Ã'~ }Óv` KŸ?'@c,+i }T]< İÖ uxU Ø\ }Óv` "'<::

>G<" ¾G<K}— "Sf ¾Te}T` Y^f" uT>Ñv ¾}""Ö< c=J" KST` Te}T\ H>Ãf Ñ³ ¾T>ÁÃ`Ñ< ¾cb†"< "ÃU ¾cucvD†"< ¾Te}T]Á S`Í SX]Á< >K<f:: uf/u?f ""<eØ u`" ¾fUI`f SX]Á Gw,,< ÁK<f ¾fUI`f TuMìÑ>Á T°ŸM "K ¾}³c< "Ç=Áe}U\ °ÉM ÃcÖM::

eLK<f ¾fUI`f S`Í SX]Á<" '²=I" SX]Á<U "Èf "ÃT>ÖkS<v†"< Áeu<:: K²=I Ÿ}²Òİ uT>kØK"< Ñê ¾k[u"<" }Óv` ÁTEK<" uSkÖMU Ÿ>T"] Ò` Ã`Á¿::

}Óv` 16

¾Tc}T]Á /ST]Á Gw,,<:- ¾fUI`f S`Í SX]Á<

U" "Ãf ¾Te}T]Á S`Í SX]Á< ÃÖkTK<; '²=I"e "Èf ÃÖkS<v†³M;

uk[u<f G<Kf UXK?< SW[f Ÿ²=I u< ¾k[u"<" %o`f ÁTEK<::

¾Te}T]Á S`Í SX]Á	SŠ ÖkUuKG<	KU" ÁIM Ñ>²? /KU"		
		²`f`	>"Ç"É Ñ>²?	>Mö >Mö
¾"ÓK=²— ¾²ð" "c?f	K"ÓK=²— >'vuw "Ç=ÁÓ'			¾ÃM Ø[f
¾lØ` eŸ<¾`" ¾Á² %o`f	Tv³f" T"ðM" uT>Áe}U\uf Ñ>²?	KT×kh ÃJ" ²"É G<MÑ>²?U uÓÉÓÇ LÃ TekSØ		

u>"vu= uTe}T]Á S`Í SX]Á'f ¾T>ÖkS<vt"" < "ÃU ¾Te}T]Á S`Í SX]Á< K=Á²Öìvt""
¾T><K< U" ~Ã'f ldlf< /'Ña< >K<;

KUdK?:- ¾Ö`S<e Ýö (>ö) ' É`Ñ>„<" KSIÖ` K=ÁÑKÓM Ã<LM::

Ÿ²=I u< u>"vu= ¾T>Ñ-< T,JÁKA<" Ã²`´\

}T]K=cb†" < Ã<LK< wK" < ¾T>ÁevD†" < ¾fUI`f S`Í SX]Á< >K<";
 KUdK? ÁIM:- lØa<" ¾Á²< "Ê<" T²ÒĚf
 ¾Te}T]Á S`Í SX]Á<" KSe^f ¾k[u Hdw

>ĚS /NDT/ cKfUI`f S`Í SX]Á< Ö"ja ÁevM "U '²=I ¾fUI`f SX]Á Gw,,<" KSY^fU Hdw
 ĀcxM::

Ÿ>T"] Ò` ewcv T"H@É /Ÿ}Óv` 16 u%EL/

KfUI`f ¾T>" <K< ¾S`Í Gw,,<" SÖkU "ÃU >Ç=e ¾S`Í Gw,,<" T²ÒĚf ¾T>Áe<Mf cò
 Hdw >Kf"; MUÉf" K>T"] uT>Á"öK<uf Ñ>²? >T"] K?KA< Gdx<" K=cÖ<f Ã<LK<::
 eKJ'U Āl"" }Óv` u}SKŸ} Ÿ>T"] Ò` KS"Á¾f SÅu— ewcv ¾U"H>Æuf Ñ>²? >G<"
 ' "<::

u}KUÊ>© S"ÑÉ Kewcv S²ÒĚf" u²=I Ñê LÃ Te`h Séõ

$\frac{3}{4}S''\dot{A}\dot{A}'\emptyset x<$

$\ddot{Y}ewcv''<\frac{3}{4}\}\ddot{c}\ddot{A}E\ Te\}\ddot{h}<$

$\acute{y}a\ddot{E};f\ cvf''\ KSe^{\wedge}f\ \frac{3}{4}k[u< SS]\dot{A}<\ \frac{3}{4}Te\}T]\dot{A}\ ST]\dot{A}\ Gw_{,,}<$

$\ddot{A}l\ \acute{y}a\ddot{E};f\ KST'\ Te\}T\ \ddot{N}^3\ eKT>\dot{A}\dot{A}'\ddot{N}<\ Gw_{,,}<\ u\}\acute{O}v'\ 15\ \text{''}\ 16\ \text{''}\ \dot{A}\ c^{\wedge}t''<\ }\acute{O}v^{\wedge}f\ uk\emptyset\ \acute{A}S^{\wedge}M::\ \text{''}e\ u>"M\ eKT>\ddot{O}kS<v\ddot{t}''<\ \frac{3}{4}fUI'\ddot{f}\ SX]\dot{A}<\ Gw_{,,}<\ '2=l''\ Gw_{,,}<\ \text{''}\ddot{E}f\ \text{''}\dot{A}T>\ddot{O}kS<v\ddot{t}''<\text{''}\ \text{''}c<\ \frac{3}{4}T>c\ddot{O}<f\ \ddot{O}kT@}\ T]\<\ "L\ddot{t}''\ \frac{3}{4}\}\dot{K}\dot{A}^{\frac{3}{4}}\ \frac{3}{4}\}e\}Ula\ eMf\ >"\acute{e}\ U''\ \acute{A}IM\ }\ S\times x\sim f\ \text{''}\dot{C}K''<\ \frac{3}{4}\}c\ddot{O}U\ Hdw\ >K::\ \ddot{Y}^2=IU\ u\}\acute{U}T]\ \frac{3}{4}\}\ddot{c}'\ \frac{3}{4}fUI'\ddot{f}\ \text{''}^{\circ}e''\ }\ T]\<\ c=T\ KS'\dot{C}f\ SU\times f\ eKT><K<\ }\acute{O}v\text{''}\ \text{''}\acute{O}\acute{E}<U\ Hdw\ >\acute{O}\sim\}\text{''}M::\ u^2=l\ \acute{y}a\ddot{E};f\ \text{''}<e\emptyset\ \frac{3}{4}\text{''}e-\ }\acute{O}v'\ \acute{A}cu<f''U\ J'\ \acute{A}k\ddot{A}Ef''\ '\ddot{N}\ '\dot{A}\ }\acute{O}v'\ SK''\emptyset\ '\text{''}<::$

$\ddot{Y}ewcv'' < \frac{3}{4}\}''c\text{\AA} Te''h<$	

ýaË;f 7

Å[í 1 - $\frac{3}{4}fUI`f S`í SX]Á< T^2\grave{O}\ddot{E}f$

$\frac{3}{4}Te\}T` /ST` Hw,,<$

eKfUG`f S`Í SX]Á< w²< Hdw >Kf:: >G<" u²=I ýaĚj f >"É >Ç=e ¾fUI`f S`Í SX]Á Ÿc\ u%EL ŸjōM " <eØ ĀVjM::

uSĚS]Á KT>Áe}Uf ¾fUI`f `Ā'f U" `Ā'f ÓMÒKAf ¾T>cØ ¾fUI`f S`Í "ĀT>ÁeðMÑf Ā`e'< S`Í SX]Á"<" u}Óv` c=c\ ^ef `ĀU Ÿ}T]f Ō` SJ'<" Áe"<c<:: ¾T>ÖkS<vt"<" T,]ÁKA< ÓUf "<eØ ÁeÑu<:: kĀU c=M u}Óv` 16 ¾cbt"< ``'a< >K<f:: K=ÖkS<vt"< ¾T>>Ĥ "[kf' " `É x`É' ŸKa< `ĀU SkuÁ< >K<- f"; U" Mvf >"Ç"É 'Ña<" SMC"< K=ÖkS< Ā<LK<:: >"Ç"É S`Í SX]Á< TKfU □"Ā ¾e°M " `É" %o`„< ÁK<f" SMC"< SLMc"< K}KÁġ ¾fUI`f `LT< K[ĭU Ñ>²? K=ÖkS<vt"< Ā<LK<:: kLM" }Kᵃᵇ (}x×ò) ¾fUI`f S`Í SX]Á< K>"É G<'@ ŸT>"<K< ¾Te}T]Á S`Í SX]Á< uuKÖ G<'@ Kw²< Ñ>²? K=ÖkS<vt"< Ā<LK<:: >"Ç"É Hdx< uýaĚj~ ¾SS]Á Te`h< LĀ }ÖpcᵃM:: 'Ñ` Ó" `e ¾^ef u`" Hdx< Ā•\M:: KSĚS]Á U" K=c\ "ĀðKÑ< Ö"pk"< Áeu<:: ¾T>Ÿ}K<f TeÑ"²u=Á< K=[Æf Ā<LK<::

ÖnT>'f ÁLt"< ¾fUI`f S`Í SX]Á<" T²ÖĚf
 KU"; - U" ðMÒKG</ Āl"" S`Í SX]Á Se^f KS%oM U" ÖkTKG<;
 ¾f; - '²=I" ¾UÖkUvt"<" 'Ña< Ÿ¾f >Ñ—†ᵃKG<;
 U" ÁIM; - '²=I" T,]ÁKA< KTÓ-f ¾T>Áe<M ¾Ñ"²w' ¾c"< ĀM --- >pU >K~";
 LĀ[Ñ"< <LKG<; - '²=I" S`Í SX]Á< '@ SY^f <LKG<;
 U" ÁIM Ñ>²?; - '²=I" KSY^f ¾T>`eÉw~ Ñ>²? U" ÁIM '""<;
 KU" ÁIM Ñ>²?; - '²=I" SX]Á< "ĀÑ" M"ÖkUvt"< <LKG<;
 U" ÁIM Ó²<ð'f >Lt"<; Ÿ'@ ¾Te}T]Á jōM >"é` ¾T>c\ S`Í< }Sx×~ "†"<;
 U" ÁIM; - U" ÁIM Ñ>²? ðMÒ†ᵃKG<; /}ĀÒÒT>'~" U" ÁIM '""<;
 KT"; - '²=I S`Í SX]Á< ujōM " <eØ LK<f ¾}KÁ¾ <KA" ¾}e}Ula
 <Ĥ □ ÁLt"< ĀÖkS<vtᵃM";
 □"Ěf □ÖkUvtᵃKG<; - Āl"" S`Í SX]Á K}KÁġ }Óv^f SÖkU □<LKG<;
 □"ĀÑ" >c^ᵃKG< />Ñ-ᵃKG<; - u'@U J' uK?L uKLK< K=v²< Ā<LK<;
 Āc^K<; - K□KS"< `LT ĀSØ"K<;
 U"ĀSeLK< - }T]‡" ĀTT`"K<;
 ¾TeÖkU °ÉLt"< U" ÁIM '""<; - }T]‡ K=Ñ"²u<f ¾T><K<f ÓMê 'Ñ` '""<;
 KU" ÁIM Ñ>²? ĀqÁK<; - uØ"no K=kSÖ<uf eKT>%oK"< ¾°n TŸT%o Áeu<;
 }eTT> "†"<"\$ - }T]‡ LK<uf G<'@" KvILt" }eTT>'f >Lt"<;

›G<" "e'"<Ÿj' KS`Í SX]Á‡ ¾T>ÁeðMÑ<f" ldlf<Ÿcucu< u%EL Ÿ}T]‹ Ò` uSj" S`Í
SX]Á‡" Á²Òì::

¾fUI`f S`Í SX]Á‡" c`j"<Ÿj' uT>kØK"< Ñê uÅ[Í 1 LÃ ]p`ff" Séö Ã<LK<:: u]p`~
LÃU U" "Åc\" Á" `Ã'f ¾fUI`f SX]Á Se^f KU" "ÅT>ÖpSf Áw^\\::

$\frac{3}{4}\text{\AA}[\acute{1} \text{ }]\text{p}\grave{\text{f}} - \frac{3}{4}\text{fUI}\grave{\text{f}} \text{S}\grave{\text{I}} \text{SX}]\acute{\text{A}}\text{< T}^2\grave{\text{O}}\ddot{\text{E}}\text{f}$

›ËS /NDT/ ¾fUG`f S`Í SX]Á‡" u}KÁ¿ ¿öKA< }ÖpTEMU ʒ ÅÑ"™ ?□T'□†" < LÃ îw[n
›É`ÖM::

›ËS /NDT/ _____ k" _____
›T"] _____ k" _____

Å[í 2 - ¾fUI`f S`Í SX]Á<" SÖKU" SÑUÑU

k×¿ Å[í Á²ÒÍD†"<" ¾fUI`f S`Í SX]Á< u>"É "ÃU Ÿ²=Á uLÃ uJ'< ¿öKA< "<eØ
¾T>ÖKS<uf" U" ÁIM "<Ö?□T □"ÅJ' ¾T>SKŸ~uf Ñ>²? SJ" >Kuf:: ¾}T]<" ¾}K¾
¾ST` eMf □"Ç=ÁÓ´ >É`Ñ" >p`u"<□M:: SX]"< ¾f™‡" `Ã'f }T]< (TKfU T¾f
/TÇSØ "Ãe SY^f ¾T>ðMÑ<f") KS`Çf □pÊ ¾}c^ '""<; U"MvfU □`e KG<K<U
TKfU ¾}KÁ¾ ¾}e}Ula eMf LL†"< }T]< □"Ç=S< >É`Ñ" c`}"<f ÅJ"M::

¾fUI`f °pÊf" uT>Á²Òìuf Ñ>²? S`Í SX]Á"<" SŠ" "Èf K=ÖKS<uf "ÅT><K< u°pÊf
"<eØ ""}~ "<Ö?T ÅJ"K<:: uS`Í SX]Á"< Ñ³ >T""f "e}T\ u%EL Ømf Ñ>²? "eÅ"<
}T]‡ KT>T\f fUI`f U" ÁIM Ñ³ "ÇÅ[ÑL†"< "Ç=Á"ìv`l ÁÉ`Ñ<:: îw[n"<" "ÇSÖ< u
%EL U"MvfU f"i >hiK"< "ÃU SÖ'— M¿'f >É`Ñ"< KT>kØK" Ñ>²? K=ÖKS<uf
Ã<LK<:: Ÿ²=ÁU S`Í SX]Á"< U" ÁIM ÖkT@ "ÇK"< TKfU K[ÏU Ñ>²? u}ÅÒÒT>
K=ÖKS<uf "ÅT><K< /"ÅTÃ<K< "ÃU K?L >Ç=e S`Í SX]Á "ÅT>ÁeðMÓf ÓUÑT
Å"H>Æ::

¾fUI`f S`Í SX]Á"<" K=ðfg<" u}Óv`U U" ÁIM "ÅT>ÁÑKÓM uT>ÑSÑS<uf Ñ>²?
uÅ[í 2 ¿""<" LÃ ¾T>Ák`u<f" ]p`f u}Ÿ¿ Ñê Áp`u<::

uSkÖMU "Å Å[í 3 " 4 ŸSgÒÑ` uòf SKe}— ¾ýaË¿~" ThhÁ ewcv Ÿ>T"] Ò`
¾T>Á"H>Æuf" Ñ>²? ÁS%o‡::

uÅ[í 2 LÃ ¾k[u]p`f

¾fUI`f S`í SX]Á<” SÖkU“ SÑUÑU

¾fUI`f S`í SX]Á‡” ”Èf ”Å}ÖkS<vt” <“ ” <Ö?„‡”U ”Èf ”ÅÑSÑTE†” < Áw^\\:: ¾S[í
SX]Á< ÖkT@ ’u[” <”; uK?L Ñ>²? K=ÖkS<uf Ã<LK<”; ÃI”” u}SKŸ} TKfU ¾S[í
SX]Á‡ ¾T>cÖ<f” ÉÒõ u}SKŸ} ¾}T]‡ ULi U” ’u`;

›ËS /NDT/ ¾fUG`f S`Í SX]Á‡" u}KÁ¿ ;õKA< }ÖpTEMU ʒ ÅÑ"ſ u" <Ö?[]T'[]t" < LÃ
 îw[n ›É`ÕM::

›ËS /NDT/ _____ k" _____
 ›T"] _____ k" _____

¾ThhÁ ewcv

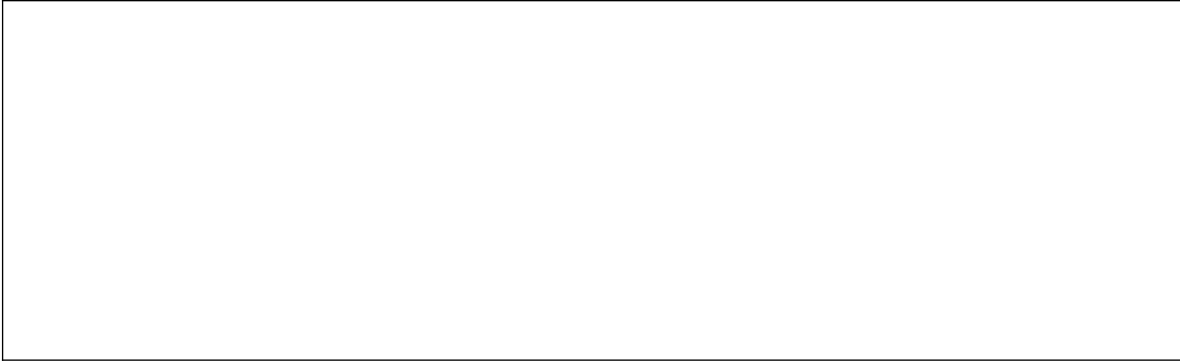
¾ýaËjf 7 ›ÒTi

[]`e uýaËjf cvf 1— []" 2— Å[Í LÃ ¾T>k`u<f" ¾fUG`f S`Í SX]Á< ›²ÖÏ}"<' u'c< }ÖpS"< eK'u^†" ÖkT@U ÑUÓS"< ›Ö"kªM:: ›G<" ÅÓV eKfUG`f S`Í SX]Á‡ " <Ö?T'f" "Åðf eKT>ÁÑšt"< ¾ýaËj~ Å[Í 3 " 4 ›ekÉS"< U" Se^f "ÇKwf Ÿ›T"] Ò` Å"Á¿:: u}ÚT]U ¾²=I ýaËjf ¾T>kØK"< Å[Í ›"M eKJ'" ¾"<ß }Òv» "ÓÇ "Å f/u?f eKT>ÁSÖ<uf G<'@ ¾}"c'< U;a< ÁeðMÑ<M::

Äl"" Ñê K"<ÄÄ~" Ÿ"<ÄÄ~ ¾}Ñ-< Hdx<" uTe"ħ'f KSÁ' ÄÖkS<uf

M""ÁÄvt"< ¾UðMÒ†"< 'Ña<

Ÿewcv"< ¾}"cÆ Te"ħ<



Ÿ5—“< - 8—“< XU”f

$u^2 = I$ c⁻f uS”ðk ~S~ uk[u” < ¾ýaËj f cvf } Óv` ÓTi LÃ Sé[e Ã•`wM:: u>G<’ < c⁻f
`e Ñ>²?” u>Óvu < Ã²” < ¾T>ÖkS < c” < ”ÅJ’ < ÃÑSM::

uT>kØK<f >^f dU”f `e:-

- ýaËj f cvf” >Ö“k” < Ÿ>T”]f Ò` S”Á¾f Ã•`wM::
- Ÿ>T”] Ò` uSJ” eU”}—” <” UMŸf” Á²ÒÍK<::
- uTe}T` /ST` ¾fUG`f S`Í Hw,,< LÃ eU”}— UMŸ Ã•`M::
- ¾UMŸ” < Ów[SMe ewcv Ã•`M::

ýaĚif cvf

Å[í 3 - }Òv» "ÓÇ ¾T>Sxuf" G<'@ TkÉ

ÅI >G<" ¾}Å[cut ¾ýaĚi~ Å[í u;õM " <eØ KT>Áe}U\ fUI`f" }T] < Ñ³ K=ÁÅ`ÓMf
¾T><K"< c"< u}Óv` ¾T>Åuf ' "<:: ÝT>Áe}Ubt"< ¾fUI`f `Ã'„< "ÅU Ý>"vu=" <
>" <É Ò` uT>eTT G<'@ "²ÒÍD†"< ¾SêNö

`°f< S"ŸM u}Òv» "ÓÇ "ÅU uT>SKÝT"< vKS<Á< K=uKêÑ<' K=Çw\ ¾T><K< Zef
`°f<" u}Óv` 15 >p`u"< "Å'u` K=Áe"<c< Å<LK<:: >G<" Ý'²=I Hdx< S"ŸM >"Æ"
uSU[Ø °"<" ¾T>ÁÅ`Ñ<uf Ñ>²? ' "<::

"Å%EL SKe wK"< cØ}†"< ¾'u\ f" Zef UdK?< Áeu<" >G<" u²=I c`f Ýfe~ Hdx<
S"ŸM ¾}T] <" Y^ KS`Çf ¾}hK"< >T^ß ¾f—"< "ÅJ'" "<d'@ LÃ c=Å`c<U
¾kÅ"<" Ów "Èf TÓ-f "ÅT><K< >u;["< Áeu<::

- "Å iõM "Ç=SÖ< ¾T>Áeu<f T"" ' "<;
- ¾}T]†" fUI`f u}SKÝ} ¾'c< Ñ<w~f `LT U"É" ' "<;
- iõM Ñw}" < U" "ÅT>ÁÅ`Ñ< ' "< ¾T>ÖÅst"<; /KUdK?:- K}T]† K'c< Y^
"ÅU ¾}K¾ °"<kf "Ç='Óbt"<; "Åe ¾}T]†" ØÁo KSSKe; ¾}"c' < "ÅU
¾}K; iH>KA<" KSÓKê; }T]†" >"É 'Ñ` c=c\ KS`Çf; Ýe^ MUÇ†"< "ÅU
ÝÑÖS™ %ot"< uS'df []i K=Å`L†"<;/
- }T]†" KÑ<w~ ¾T>Á²ÓÍD†"< []"Éf ' "<; (KUdK?:- []`e ¾ðKÑ<f u}"c'
¾fUI`f `°e LÃ u}T]† KT>'c< ØÁo< SMe []"Ç=cÖ<Mf ÝJ' }T] < []"ÓÇ"<
([]"ÓÊ†) ÝSU×[]†"< >ekÉS"< ØÁo†" >ekÉS"< u=Á²Òi ¾}hK ÅJ"K<:

- "ÓÇ" < " KÑ < w~f ¾T > Á²ÒÍD†" < uU" SMÿ < '"" <; (KUdK?:- "ÓÇ" < " uT > Òw² < uf Ñ >²? `dt" < " ('`c <) KSÒu' Áe%oKf" 'Ñ` uÓMê "ekSÖ < ' `c < U KÑ < w~ ~ uT > Ñv S²ÒËf Ã < LK < ::)
- `e Ãl"" ÁkÆf" Ñ < Ç¿ uf/u? ~ KSðìU U" ~Ã'f 'Óÿf >É`Ñ³M; (KUdK?:- fìjK— "" < " ¾>c^` pÅU }ÿ}M ¾}ÿ}K < SJ' < " KT[ÒÑØ ÿ>T]" " ÿfUI`f u? ~ `°c SUI` Ò` S'ÒÑ` Ã•`wM::)
- K?L }ÚT] ¾ST` Te}T` Hw,, < ÁeðMÑ < M";

>'²=I" Hdx<" °pÊ< ÿc\ u%EL }"Ò]" < " c" < ÃÒw² < f "Ç=G < U ¾}"Ò]" < " ~ÃU ¾"ÓÇ" < " Hdw T"}f "Ç=<K < ¾fUI`f °pÉf" uØ"no Á²Òì::
pÉf"" 'Óÿff" u}SKÿ} uÅ[í Zef LÃ ¾T > Ák`u < f" ]p`f u}ÿ¿ Ñê LÃ Ãéö::

ÿ²=ÁU ¾Òu² < f "ÓÇ ¾É`h" < " >e}³ê\* ÁÅ[Ñuf" fUI`f Áe}U\:: uÑ < w~ ~ "pf eK}ðçS < f 'Ña< Ák[vD†" < " SÓKÝ<" }Òvÿ "ÓÇ Ák[u" < " Hdw "" < Ö?T'f u}SKÿ} ¾ÑSÑS < f uýaË; ~ 4— Å[í LÃ ¾T > k`w Ã²f Åj

uÅ[í Zef LÃ ¾k[u]p`f

}Òv» "ÓÇ ¾T > S×uf" (Ôw->) TkÉ

›ËS /NDT/ Ôw->¨<" KSÒu' }Ñu=¨<" 'Óİf ›Ö"k¨< u>"Æ įõM ¨<eØ Ñw}¨< `Ç
 "Ç=cÖ< ›É`ÑªM::

›ËS /NDT/ _____ k" _____
 ›T"] _____ k" _____

Å[Í 4 u}Òvÿ ¾k[u¨<" fUI`f" SÑUÑU

ÅI Å[Í }Òvÿ "ÓÇ fUI`f ŸcÖ< u%EL ¨Ç=Á¨<'< ¾T>kØM '¨<:: G<K<U 'Ñ` `e
 vkÆf SW[f }ðêTEM; }T]‡ "ÓÇ¨<" "£" ÅI" SÖ< uTKf u}Ñu=¨< S"ÑÉ ØÁoÁ†¨<"
 KSÖ¾p ¨ÅU Ø\ Y'UÓv` KTd¾f uT>Ñv }²Òİ}¨<'u¨<; "ÓÇ¨< `e ¾Ö¾st¨<"U J'
 ÅÅ`Ñ<M wK¨< ¾Öulf" ðêSªM"; fUI`~ ¾}cÖ vKuf Ñ>²? ¾`e É`h U" 'u¨<; }Òvÿ
 }T]‡ u}cx†¨< `°e LÃ ¾'u^†¨<" MUÉ TuMiÓ ¾T><K< 'u¨<; fUI`~" "Èf
 ÑSÑS<f;

U"Mvf ufUI`f u?f ¾"ÓÊ< KÑ<w~f SUxf ²¨f` ¾}KSÅ" ¾ýaÎ~ Åx—¨< įõMU K`c
 ¾}Óv^© MUUÉ >"M K=J" Å<LM:: uK?LU uŸ<M ufUI`f u?f Ôw~< "Å ST]Á
 įõM }Òw²¨< SUxf ÁM}KSÅ 'Ñ` ÅJ"M:: eK²=I ÅI"¨Ñ<ÇÃ u}SKŸ} `e ¾uKÖ
 Tcw' S"Á¾f" ýaË~" KTTELf S²ÒËf Å•`wM::

u`ÓØ Ôw->< "K<f ÅÓV ÓUÑT¨<" SŠ "ÅT>ÁŸ"¨<'< uØ"no Tcw Å•`wM:: }Òv»
 "ÓÇ¨<" KŁk ¨<Ö?f }ÖpS¨<vtªM"; }T]‡e ŸÔw->¨< U" ÁIM }U[ªM;

Ôw~<" "Å ;õM c=Òw²< Ãᄃ ¾SËS]Á Ñ>²?f 'u`"; Ø\ MUÉ >Ó~}"< 'u`"; uK?L
Ñ>²? ¾T>cb†"< ¾}KÁž 'Ña< >K<f"; K"Åð~ uT>cb†"< e^< LÃ K=[Æf ¾T><K<
K?KA< "ÓÊ<" ÃÒw³K<";

LÃ eK}ÑKèf 'Ña< îw[n Á"H>Æ" ¾ÓUÑTf" "<Ö?f uT>Ÿ}K"< Ñê uÅ[í 4]p`f LÃ
Áp`u<::

¾Å[í 4]p`f

u}Òvÿ "ÓÇ ¾k[u"<" fUI`f SÑUÑU

¾ÑSÑS<f" fUI`f" ufUI` © MUÆ LÃ ÁK<f" îw[n< ²=I Ãé÷†"<::

›ËS /NDT/ ¾}T]‡" ¾}e}Ula MUÉ KtuMçÓ uTcw ¾k[u¨<" fUI`f" }T]‡ fUI`~"
 ÆuMØ "Ç=[Æf KTÉ[Ó ;öM ¨<eØ Ñw}¨< Áe}T\j" "ÓÇ ¾Hdw ›k^[w" SÓKÝ ›cxØ
 uT>Ñv ÑUÓªM::

›ËS /NDT/ _____ k" _____
 ›T"] _____ k" _____

uýaËif cvf LÃ ¾k[u]p`f
ŸýaËif Y^< LÃ ¾}T\j" 'Ñ` U"É" '¨<;

ýaĚıf cvf eY?T uJ' S"ÑÉ }Ö"sM::

›ĚS /NDT/ _____ k" _____
›T"] _____ k" _____

ýaĚıf cvf" ¾ThhÁ ewcv

›G<" u=Á"e ›"É ›Ç=e ¾fUI`f S`Í SX]Á ›²Öİ}ªM:: Ÿ²=ÁU ›Mö uıõM " <eØ ¾}dfö
"ÓÇ ›K<f:: u}ÚT]U eK}KÁ¿ ¾fUI`f S`Í Gw„< ¾}hK Ó"³u? ÁKf c=J'< ÖkT@†"<"
u}SKY}U ÓUÑT ›"H>ÅªM::

ýaĚı~" KThhM uT>"H@Å"< ewcv LÃ eKÑÖS~f "ÃU eLÑ-<f MUÉ Ÿ>T"] Ò`
Ã"Á¿:: ¾}~Á¿vt"<"U Hdx< ¾ýaĚı~ TÖ"kmÁ uJ'"< uÅ[Í 3 " 4]p`f LÃ ÁSMı~::
Ÿ²=I u< ¾k[u"<" ¾"[kf Te`h ÃÁ²<uf:: Ÿewcv" u%EL ›T"]f uýaĚı~ " <eØ eK'u[f
¾Y^ ›đécU Ów[SMe ÆeÖ<M:: ¾Ów[SMc<" ꝑú ŸS'Ñu - }Óv^~ " <eØ
ÁekUÖ<f::

M""ÁÃvt"< ¾UðMÒ†"< 'Ña<

Ÿewcv" < ¾}"cÆ Te"ħ<

}Ÿł ¾>Ç=e ĘT] SUI^ ¾Te"mÁ ħ`e eU"}—"< UMŸf Ą" M:: ŸUMŸ uòf
¾T>Á"H>Æf" ¾pÉS-UMŸ ewcv ¾Á²"< Ñê Ÿ²=I Ñê kØKA
ĄÑ—M::

eU"}—"<" UMŸ KT²ÒĚf ¾T>Á[Ó ewcv

UMŸ ¾T>H@Éuf k
UMŸ ¾T>Á[Óuf fUI`f

fY<[f 1 - $\frac{3}{4}$ Te}T]Á /ST]Á Gw,,< ÖkT@

fY<[f 2 (uewcv"< Ñ>²? eEUU'f $\frac{3}{4}$ T>Â[Óvt"< 'Ña<)

K?KA< Te□"h<

UMY□ Y}"H@Auf fUI`f uòf  $\frac{3}{4}$ }ÖkS<uf" K>T"] K=cÖ<f  $\frac{3}{4}$ T><K<f f`ð $\frac{3}{4}$ fUG`f 'Óïf
°pÉ ÁKf SJ'<" □`ÓÖ— ÑG<'<::

UMY□ eU"f

$\frac{3}{4}$ fUI`f 'Óïf °pÊf" uS'Ñu }Óv^f " <eØ □H.I Á"~::

Áe□"<c<:-

- $\frac{3}{4}$ fUI`f 'Óïf °pÉf" K>T"] ÑeÖ<::
- c~f Áiw\
- uT>Ñv Á²Òì
- ufUI`~ " <eØ K=ÁÑ-<f Ácu<f" 'Ñ` uÓMê Áeu<

- ufUI`~ TÖ“kmÁ LÃ ŸUMŸ u%EL Ów[SMe LÃ KS“Á¾f ewcv
¾T>Á"H>Æuf" k" SŠ "ÅJ' Ÿ>T"] Ò ÆeTS<::

ŸUMŸ u%EL Ÿ>T"] Ò` ¾T>Å[Ó ewcv

ÃI cwcv `e kÉU c=M u}SKŸ~f fUI`f LÃ vÅ[Ñ<f ÓKU²" "Ç="Á¿" Ÿ>T"]U Ñ"u=
¾J' Ów[SMe "Ç=kuK< ¾T>Áe<M '""<::

´ÓÖ— SJ" vÃ%oMU >T"]f K=ÁhiLD†" < uT>Ñu< >"É "ÃU G<Kf >"vu=< LÃ
 >e}Á¾f K=cÖ< Ã<LK<:: u" <ÃÃ~ " <eØU K=eTS<v†" < ¾T>Ñu< G<Kf "ÃU
 Zef >=LT< ÁeðMÑ<M:: '²=IU >=LT< "Àðf ¾T>ÁhiLD†" <" "LT< KTKU Ã[ÆM::

UMŸ u}Ã[Ñuf fUI`f LÃ ÓK-U²"</p> <p>U" 'Ñ` uT>Ñv }Ÿ""'; ShhM ÁKufe U"É" '""<;
Ÿ>T"] Ów[-SMe u%EL ShhM ¾T>Ñv†" < >"vu=< 1. 2.
ŸUMŸ 7 u%EL ¾KS<f" KThhM eUU'f ¾}Ã[cv†" < 'Ña<
>Ç=e ¾}hhK< " >LT< 1. 2.

>T"] UMŸ" <"" Ów[SMc<" "Ö"kl u%EL uÓw[SMe uk[u" < "[kf LÃ G<K<G<U
 ò`T<G<" "ekSx<G< u%EL Ÿ²=I Ñê kØKA uk[u" < S'Ñu }Óv^f LÃ >ÁÃ²" <
 ÁekUÖ<f::

¾SUI^" }ŸÃ ¾S<Á TÔMu%o S`H Ów` /CPD

LKñf G<Kf `Sf fUI`f T>'>e,` G<K<"U ¾SUI^" fUI`f >k^[w" >}Ñvu` u}SKŸ}
 u>ÖnLÃ ¾fUI`f e`~" c=ŸMe qÃ...M:: >G<" '²=I °pÊ< }Óv^© ¾T>Ã[Ñ<uf Å[Í

LÃ "t"<:: pÉT>Á ¾}cÖ" < Ñ<ÇÃ Ó" ¾G<K<U SUI^" òLÔf" Swf ¾J'" < Yö}—
 Ø^f ÁK"< }YÃ ¾SUI^" ¾S<Á TÔMu f ¼'e G<K<U SUI^" ue^ ²S"t"< G<K<
 TÓ-f ÁKvt"< SJ'< '"<::

SUI^" K^dt"< ' K}T]%ot"<" KT>•\uf T%u[cw KT>cÖ<f ÖkT@ c=vM ¾°ÉT@
 M; fU`lf î" c Hdw Ó"³u? K=•^t"< ÃÑvM' ÉT@M"t"<"U YdÃ"e Ó~,<' Y,;•KAİ
 "<Ö?,< YT%u[cv© K"<Ü< - - - Ò` ^dt"<" KTe}³p ST` Ã•`vt³M::

¾SUI^" }YÃ ¾S<Á ThhÁ S`H Ów` >ÖnLÃ `LT<:- G<K<U SUI^":-

- ¾fUI`~ Y^ ukxÃ'f K"<Ø (ShhM) ¾T>ÁeðMÑ"< SJ'<" G<K<U SUI^"
 k" uJ' u"ÑÉ uSUI^" }YÃ ¾S<Á TÔMu%o ¼'e S`H Ów` Skö
 "ÅT>ÁeðMÒt"< ÃÑ'²vK<::
- Yö}— Ø^f ÁK"< }YÃ ¾SUI^" ¾S<Á TÔMu%o fUI`f ÁÑ—K<::
- Y`f vK"<" u}YÃ ¾S<Á eMÖ" S<Á© ;IKAt"<" >SK"Yt"<" °"<kt"<"
 ¾T>ÁdÉÑ<uf" ¾T>ÁhiK<uf °ÉM (>ÒxT>) Ã•^t³M::
- eKHÑ]~ "p© wH@^© Ñ<ÇÃ<" pÉT>Á K=cxt"< eKT>Ñu< Ñ<ÇÃ< Ó"³u?
 Ã•^t³M::
- ¾fUI`f u?~"U J' ¾Á"Ç"Æ" SUI` òLÔf KTTELf c=vM pÊ uS"H@É LÃ vK"<
 eö" ¾SK"Ø (¾ThhM) S`H Ów` "<eØ uSd}ð S<Át"<" uThhM uÅ[ít"<
 uS<Át"< }`ÇÇ] ÅJ"K<::
- }YÃ ¾S<Á ThhÁ fUI`~ YT>ÑSÑS<vt"< 'Ña< "<eØ >"Æ SJ'<" "Åe^ ðné
 TÑMÑK<" ¾S<Á ThhÁ SJ'<"U ÃÑ'²vK<::

Åİ ¾SUI^" }YÃ ¾S<Á ThhÁ ¼'e SW[~ ¾T>xK"< upÉS->ÑMÓKAf fUI`f >T"~f
 uT>cØ ¼'e '"<:: u>Ç=c< ¾SUI^" }Y ¾S<Á TÔMu%o fUI`f ef^,İ SW[f G<K<U
 >Ç=e pØ` SUI^" ¾Te}T` ;H>KA%ot"<" ¾uKÖ "Ç=ÁhiK<uf ¾T>Áe<M
 ¾Te}³mÁ ¼'e KG<Kf `Sf ÃcxM::

SUI^" MUÇt"<" ÁÇu\ c=H@Æ' u}YÃ uT>•bt"< >ÒxT>< K^dt"< ÁÑ-<f"
 °"<kf' ¾,;•KAİ= "<Ö?,<" >ÇÇ=e î" c Hdx< uST` Te}T\ H>Åf "Ç=Áe}LMñf
 ÅÖunK<::

¾SUI^" }YÃ ¾S<Á TÔMu%o fUI`f uÁ"Ç"Æ f/u?f YT>Y'"< Y^< >"Æ" KÁ"Ç"Æ
 İé"U Ø^f ÁK" fUI`f KTp[w Yö}— >e}³ê* ÁK"< '"<::

XU"f 9-12

}Óv` 17 u}SKŸ} >eðLÑ> ¾J'< SS]Á<

¾ST` Te}T` Gw,,<" >"vu=Á<"

k×¿ }Óv` u²=| S"ðk-`Sf ¾ST` Te}T` Gw,,<" u}SKŸ} T"H@É ÁKw"" }Óv`
¾U"Ö"kpuf "'<:: kÅU c=M ¾}KÁ¿ T,]ÁKA<"" cw`© Gw,,<" ufUI`f S`Í'f
KSÑMÑM ¾T>Áe<M i""<" >Ö"n<HM:: u}ÚT]U ¾}Ökc"<" i""<" "Å}Óv`
KSk¾` uT>%oMuf G<'@ LÃ ýaËjf >p`v<%EM:: uk×Ã'f ¾f/u?<G< >"vu=
"Å >"É ¾ST` Te}T` Gwf K=Ã ¾T>%oMuf" G<'@ "S[U^K"::

f/u?<G< ¾T>Ñ~uf >"vu= }Úvß G<'@ ¾fUI`f u?<G<" >ÖnLÃ G<'@ ¾S"c"
>pU >K"<:: KUdK? ÁIM f/u?<G< ¾T>Ñ-""< uÑÖ` >"vu= Ýj' >w³™ ‡ }T]-
%o<G< ÝÑu_ u?}cw ¾}Ñ-< K=J'< Å<LK<:: ¾>¾\ G<'@[] ¾>ð\ KU'f Å[í'
¾T>upK"< ¾cwM >Ã'f ¾Å" S^qf' ¾>ð` SŸKf" ¾SdcK<f K>"vu="<
Tlu[cw ¾QM"<" Sc[,< "†"<:: u²=| >Ã'f f/u?[]<G< ¾}Sc[]uf" >"vu= }Úvß
G<'@[] uT>Ñv TÖ?" Ý'v^© G<'@[] Ö` kØ}— }³UÊ ÁLt"< ¾fUI`f Å²,<'
"Å >"vu= dÃ"e uSdcK< fUI`,,< S`G Ów` ""<eØ }"}"< K}T]< "Ç=k`u<
KTÉ[Ó Áe<LM::

uK?L uŸ<M KUdK? f/u?<G< ¾"ÓÉ "penc? ueóf ¾T>"H@Éuf >"vu= LÃ
ÃÑ—M "uM& ¾>=¢•T>""< ¾ÅU e` "ÓÉ "'<:: Ç=Á eKSª°K "ªÃ 'eK"ÓÉ Y^
"ÅU c< K=cT\vt"< eKT>Ñu< ¾Y^ Seç< ucuuf Ñ>²? ¾ÑuÁ Ø'f T"H@É
>eðLÑ> SJ'<" S`U\:: KUdK? >"vu=Á<G<" æm ÁÅ[Ñ<f æ" æ"‡ gkÙ<
U"É"†"<; f/u?<G< u<" >wnÃ uj'< >"vu=< ÅÑ—M"; "Åe ¾Øuw Mwe
ueóf ¾T>gS"uf "'<; u²=| G<'@ >"vu=Á© G<'@<" uTÖ?" 'v^©""<"
G<'@ Sc[f >É`Ñ"< ¾T>²Òì ¾}T]< ST]Á SêNöf" Tc"Çf Å<LM::

¾Ufc\f ueUØ gKq >"vu=< "'<; d}ÑV^' }^^<" NÃq‡ ¾>"vu="< Tu[cw
>"E"E` eMf u}SKŸ} Ÿö}— >e}ªê* >Lt"<::

f/u?<G< ¾T>Ñ-""< uSHM Ÿ}V< ""<eØ "'<; ¾f^ò; SÚ""p' ¾ÉUÊ" ¾>¾`
w;Kf u}T]%o<G< LÃ U" >Ã'f }ê• >dÉbM; ¾SŸ=" >ÅÒ< ueóf ÁÒØTK<"; Ål"
ŸSdcK"< 'v^© G<'@ uS'df uUe}U\uf ;ðK Ñ>²? ¾T>k`w" fUI`f "Ç=G<U
K}T]‡ ¾T>²Òì ST]Á SéQöf" Ÿ}Úvß G<'@ Ò` KT³SÉ ¾T>Áe<K< UdK?<"
SeÖf f<LL<G<";

â>"vu=Á<G<" ¾}K¾ G<'@ uTÖ?" ¾}Ñ'²v<%Et"<" ö_ Gdx< uUe}U\
vt"<< ;ðKA< ""<eØ ufUI`f Ã²f'f MfŸf...†"< ¾Uf<K<uf" G<'@ >Ñ""u<::
Ÿ²=ÁU "ÁT>kØK"< Ñê Kñ" }Óv` 17" >Ö"l::

ǝǾv` 17

ST` TeǝT` Gw,,<" >"vu=Á<"

u²=I ǝǾM" >"vu=Á© G<'@<" uTÖ?" ¾T>k`u" <" S`G fUI`f ǞǝÚvß G<'@
Ò` KT³SÉ ¾T>Áe<M ǝǾv` Ǟ"" <"L<G<::

KUdK?

KH>dw fUI`f:- ¾>"vu=" <" ÑuÁ "ÄU c<q<" uSÖkU uǝÚvß K=Ǟc~
¾T><K< <Ǿa<" KTe"ÑÉ ¾T>%LMuf" fUI`f "Ç=keS< TÉ[Ó Ä%LM::

KdÄ"e:- u>"vu=" < ¾T>Ñ-< }iKA< KvÄKAÍ= fUI`f Ø"f T³M "ÄU
uǝǾǾa ¾}Ñ-< 'Ña<" ¾>"vu=" < Tlu[cw "Èf uǾpU LÄ
"ÄT>Ä" <L†" < SS`S`" TØ"f Ä%LM::

K>"vu= dÄ"e:- ¾>"vu=Á<" ¾SMi` UÉ` >kTSØ uUdK?'f Ák[w" TeǝT`
"<LK"::

Kc" <'f TÔMSh fUI`f:- ǞǾ uǝ}'óǾd<" LÄ ¾T>ÁdÉ[" <" }ê• "Ç=Ö?'f TÉ[Ó Ä
%LM::

Ks"s fUI`f&- u>"vu=Á<G< ¾T>'Ñ\]ç<" SÖkU Ä%LM::

Ke"" <uf:- >"vu=Á<G< ¾Gdw " ¾}K?ǝ T,]ÁKA<" U"ß K=J" ÄLM::

KUdK? >"vu=Á<G< ǞT>upK< 'Ña< KTpKU ¾U"ÖkUvt" < }iKA‡ K=•\
Ä<LK<";

Ke'²?Ò:- }T]%G< K=[ÇD†" <" K="Áǝvt" < ¾T><K< Tlu[cv© Ñ<ÇÄ<
>K<";

Ǟ>"vu=Á<G< }Úvß G<'@ uS'df K}T]%G< ǞT>k`u<L†" < `°c Ñ<ÇÄ< Ò`
ǝ³Tǝ ¾J' < G<Kf Gdx<" U[Ö<

Gdv<G<" uǝǾv` KSK"Ø ¾T>Áe<L<G< °pÉ "Éñ::

fUI`~" >p`u<" êw[n >ǞH>Æ:: uSÚ[gU ¾}Ñ-< " <Ö?,,<" ÑUÓS<::

¾k[u" <" fUI`f Ǟ>"vu=" < }Úvß G<'@ Ò` T³SÇ<G< KfUI`~ QÄ"f cÖ" <";

>"vu=Á© G<'@ uS'df ¾T>k`u< UdK?< }T}<" fUI`~" "Ç=[ÑÆ KTÉ[Ó
ÁÓ³K<";

uT>kØK" < Ñê LÄ ÄI" ǝ"" <" ¾T>SKǞf ²Ñv éñ:: ¾fUI`~" >k^[w eMf >w^\
& " <Ö?T Sǝ' <" >KSǝ' <"U ÑUÓS<::

>"vu=Á© G<'@ "ST` ¾Te}T` Gwf uS"<cÉ ¾k[u"<"
 fUI`f ¾}SKÿ} ²Ñv

>ËS ¾f/u?<G<" >"vu=Á© G<'@ "Å >"É Gwf uSÖkU }Ñu="<" °pÉ
 >²ÖÏ,,/>²ÖÏ G<Kf ;öK fUI` „<" >e}UbM/>e}U^K<
 >ËS _____ k" _____
 ¾S<Á >T"] _____ k" _____

Ÿ}Óv` 17 SÖ“kp u%EL ŸS<Á >T"] Ò` ¾T>Â[Ó ewcv
¾}cx<G< }Óv` c=Ö“kp "Å}KSÅ"< ŸS<Á >T"]Á<G< Ò` ewcv T"H@É
ÃÖupv<%EM::

ÁÑ—<%E†"<" ÖnT> Gdx< KTeð` Äl"" Ñê }ÖkS<::
}Óv^<G<" u}Ñu="< G<'@ TÖ“kn<G<" KT[ÒÑØ ¾S<Á >T"]Á<G< uÑè
SÚ[h LÃ ò`T†"<" "Ç=Ácö\L<G< ÖÄl::

}Óv` 17" ¾T>SKŸf îw[n:- M"ÁÄvt"< ¾UðMÒ†"< `°c Ñ<ÇÄ<

u"<ÄÄ~ ¾}'c< ò_ Gdx<

KýaĚj 8 ¾T>ÁÑKÓM Te" h

f/u?f uTlu[cu< " <eØ

Āl ¾S<Á TÖ"Ÿ)Á ċ`c< ¾SÚ[h ýaĚj f' " <:: ²l Ā[í Lǎ uSÉ[d<G< ""D" Āe
ÁL<G<! vKñf G<Kf "Sf " <eØ uST` Te}T\ ²`ö ¾}KÁĭ Ñ<ÇÄ<" KSS`S`"
ÖnT> MUÊ<" KSpCU <L<%EM:: eKf/u?<G<U cò Ó"³u? >Ó~<%EM:: u²=I
G<'@ Lǎ uSSe[f k×ĭ ýaĚj f/u?<G<" u}"ÖM dǎ] " ŸT>Ñ~uf Tlu^© >"<É
Ò` >e}de^<G< "Éĭf" ulw[}cu<" uf/u?~ S"ŸM ÁK" }³UE" l`~f "ÉfS[U\
Áe<L<%EM::

u>"Ç"É >"vu=< f/u?,"<" Tlu[cu< }k^`u`< Āc^K<& uK?KA< >"vu=< ĀÓV
f/u?,"< ¾^dt`<" Āc?f ðØ["< eKT>•\ Ÿ"<Ü"< "KU Ò` ÁLt`< Ó"-<'f İÓ
"<c<" " <:: u²=I ýaĚj uf/u?,"<" uTlu[cw S"ŸM SðÖ` vKuf Ó"-<'f [ÑÉ
Sc"iM ¾T>J'< Ñ<ÇÄ<" up`uf uTÖ?" SðfH@ M"ðMÓLt`< }'e}"M::

uýaĚj~ TÖ"kmÁ Lǎ uf/u?,"<" uTlu[cu< S"ŸM Ö""^ Ó"-<'f KSðÖ`
¾T>Áe<K< SĀUĀT>Á< Lǎ fǎ`dL<G<:: ýaĚj~ Ÿ²=I u< ¾}²[²f" >^f Ā[í<
ÁMóm:: "ĀSĖS)Á"< Ā[í ŸSgÒÑ^<G< uòf ¾k[u"<" ÑKé ufŸ<[f KTÖ?" Vĭ\!
¾ýaĚj~" >"nk` Ÿ}[Ç<G<U u%EL uk×ĭ H>Āf Lǎ U" TŸ"" "ÇKv<G<
uÓMê KS[Çf f<K< ²"É ŸS<Á >T")Á<G< Ò` ewcv >"H>Æ::

¾ýaĚj~ u=Ò`

Ā[í >"É:- ¾f/u?<G<" >"<É u}SKŸ} ``^ ÑKé eÖ<& Āl uf/u?<G<"
uTlu[cu< S"ŸM K=•` eKT><K"< Ó"-<'f SW[f ĀØLM::

Ā[í G<Kf:- "K"< "p© }Úvß G<'@ uS'df f/u?<G< KTlu[cu<
¾T>Áu[i}"<" >e}ªê* u}SKŸ} ¾cx<G<f" f"}"" Ák[v<G<f" ÑKé Sc[f ĀĀ[Ñ
êw[n >"H>Æ:: u²=I êw[n ŸLǎ ¾}Ökc"<" Ó"-<'f Ö""^ Ñê<" Ÿ}ðÖ["<
fee` >"DÁ ÁÖÖS< Sc"iKA<" fKÁL<G<::

Ā[í fej:- uT>ĭ Ø""_<" ÉjS,,< Lǎ }Ÿ<^L<G<& Ø""_<" KTÔMuf" <Óa<"
KSp[ð ¾T>Áe<K< eM,,<" f'ÉóL<G<::

Ā[í >^f:- ¾f/u?f" Tlu[cw" l`~f U" SMi K=•["< "ĀT>Ñv ¾T>Ádǎ ýaĚj
f'ÉóL<G<::

kx¿ Ñê Ÿ>T"]Á<G< Ò` KT>•["< pÉS ýaË¿f ewcv Gdv<G<" KTeđ`
ÁÑKÓL<%EM::

ýaĚif 8" KSĚS` ŸS<Á >T"] Ò` ewcv T"H@É

ýaĚi~ ŸSĚS\ uòf L" <n†" < ¾T>Ñu< 'Ña<

uewcv" < "pf ¾}Á² Te" h

--

ýaĚif 8

Å[í >"É:- ¾f/u?~ >"<É

u²=I ¾SĚS]Á Å[í LÃ uf/u?f" uTlu[cw S"ŸM ÁK"<" l`~f >eSMi,, KUÅ`Ñ<f êw[n S'h Åj"<G< ²"É eKf/u?<G< ```` ÑKé Tp[w ÃÖupv<%EM:: u`ÓØ KG<Kf `Sf ¾qÁ<G<uf" f/u?f u}SKŸ} u>Ua><G< w²< S[í K=•^<G< Ã<LM:: u²=I Å[í Ó" Ål"" S[í ue`~f ¾UÅ^`luf" f/u?<G< ¾>"vu=Á<G< >"É >"M Sj'<" ¾UfÑ'²u<uf Åj"M:: u²=I Sc[f f/u?<G<" Ÿ}KÁ¾ >p×Ÿ >"é` KSS` Vi\!

- ¾f/u?<G< >"nk`:- >"Å— Å[í ' "< "Åe G<K}— Å[í; eŸ e"}— iðM Åe}U^M; fUI`f ¾T>cÖ"< uð[n ' "<; ¾T }T}< >K<ª<G<;
- ¾f/u?~ Tlu[cw:- e"f }T}< >K<; u>"É iðM "<eØ ¾}T}< w³f e"f ' "<; e"f SUI^" >K<; >w³™± SUI^" uG<K~U ð[n Åe}T^K< "Åe u>"É ð[n w‰; ¾>e}ÇÅ` W^}™< lØ` e"f ' "<;
- SMi` UÉ^© >kTSØ:- f/u?~ ¾T>Ñ~uf" >"vu= ÓKè:: uª" Ÿ}T< 'u>'e}— Ÿ}T< "Ã"e uÑÖ` >"vu=; }T}< "Åf/u?f KSÉ[e U" ÁIM SÖ' >Kv†"<; ¾S"ÑÆ G<'@□e U" ÅSeLM;
- SÑMÑÁ<:- f/u?~ ÁK<f" SÑMÑÁ< G<'@□ ÓKè:: K}T}<" KSUI^" ¾}²Òì ¾SçÇí iðKA< >K<"; u?}SéQðf" ¾üÇÔí= T°ŸM >K<f"; ¾dÃ"e u?}S<Ÿ^e; ¾ST]Á iðKA" K?KA< ¾SÑMÑÁ n< Åµ U" ÅSeLM; ¾ep`f SÑMÑÁ n< >K<f";
- ŸTlu[cu< Ò` ÁK Ó"—<'f:- ¾"lĪ SUI` lw[f >K"; f/u?~ Ÿ>"vu="< ¾Ôd S]</ ªm ÓKcx< Ò` fww` Se`...M"; ¾>"vu="< Tlu[cw ¾T>ÑKÑMv†"< ¾f/u?~ "w[„< >K<"; f/u?~e uuŸ<K< ¾>"vu="<" Tlu[cw "w[„< u} "c' Å[í ÃÖkUv†ªM";

uÅ[í >"É LÃ ¾k[u ²Ñv
ÑKé<G<" Ÿ< u}cx<G< x LÃ >eõ\

¾f/u?~ ®" <É

>ËS ¾f/u?~" ®" <É u}SKŸ} ÓMê" f;K— ¾J' Tw^]Á ê÷M/êóK<::

>ËS _____ k" _____
¾S<Á >T"] _____ k" _____

Å[Í G<Kf "p© ¾J' ¾f/u?f" ¾Tlu[cw fee` f"]`

¾G<" ¾f/u?<G< >"<É U" "ÅT>SeM KSS`S` <L%EM:: f/u?<G< u>"vu="<
Tlu[cw ²"É ÁK"<" T>" >eSMi,, Ák[v<G<f ÑKé" f"]` LÃ kØL<G< êw[n
"H>ÇL<G<::

f/u?<G< ÝTlu[cu< Ò` ÁK"<" fee` uT>SKÿf U" Ö""^ Ô•< Ã}ªM;

- u>p^u=Á<G< ¾SUI^" fUI`f çK?İ >K"; ¾f/u?<G< SUI^" ÝçK?İ
"ef^i}a< Ò` ¾}Ñ"-< ¾MUÉ M"<"<Ø Á"H>ÇK<";
- "LÐ< Ýf/u?~ Ò` ¾k[u Ó"-<'f >L†"<"; KUdK? uÑu= Tcvcu=Á
ýaËi,,< KÃ Äd}óK<";
- ¾> "vu="< ¾Ö?" vKS<Á< >?< >Ãy=>?Ée" u}SKÿ} ¾f/u?~"
Tlu[cw Ó"³u? uTÇu` [ÑÉ Äd}óK<";
- uf/u?~" uK?KA< É`İ,,< }sTf ¾Ô^ fww` ¾T>"kdkc< ýaËi,,<
>K<";
- ¾ep`f "ÃU ¾}KÁ¿ vIL© 'Óİ,,< uÒ^ Á"H>ÇK<";
- ¾Tlu[cu< >vLf uf/u?,,< "<eØ K}Sc[~ iuvf ÉÒõ ÄcxK<";

Tlu[cu< Kf/u?,,< U" ÁIM ÉÒõ ÄcxM;

f/u?~ KTlu[cu< U" ÁIM ÉÒõ ÄcxM;

kÇT> i""<" KÅ[Í G<Kf:- uf/u?<G<" u>"vu="< Tlu[cw S"ÿM

¾}ðÖ[Ö""^ Ó"-<'f" u}SKÿ} êw[n >"H>Æ::

e"G<" É[e uf/u?~" uTlu[cu< S"ÿM U"U >Ã'f Ó"-<'f LÃ•` Ä<LM& ÄI KU"
J'; ¾<Ó\` U"ß SS`S`" u`^`^` SÓKê Å•`v<%EM::

- f/u?<G< ¾Tlu[cu< >vLf Ýð}- ¾Y^ Ý" vKv†"< ¾ÿ}V< >"vu=
eKT>Ñ~ "LÐ< uY^ "<Ø[f du=Á uf/u?~ Ñ<ÇÄ< LÃ KSd}ð >M
%oK<U";
- f/u?<G< uT"†"<U "penc? ÝTlu[cu< }'ØKA uSq¾~ du=Á
K"LÐ< }dfö u\` >Mÿð}U";
- SUI^" ufUI`f e^ uSÖSÇ†"< du=Á ÝK?KA< É`İ,,< Ò` ufww`
KSe^f ¾T>Äe<M G<'@ SðÖ` >M%oK<U";
- f/u?~ ^c<" ¾%oK >"É >"M "ÅJ' qØa ÝK?KA< Ò` Ó"-<'f
ÝSðÖ` }qØvDM";
- uTlu[cu< "<eØ u}KÁ¿ "Ñ•< S"ÿM p^'@ uS•\ du=Á f/u?~ xMn
LKSÓvf ^c<" >ÓLDM";

uÅ[Í G<Kf LÃ uf/u?<G<" uTlu[cw S"ÿM uT>ðÖ` Ó"-<'f [ÑÉ ¾}Åk'<
Sc"iKA<" KSK¾f Ø[f >É`Ñ<:: Ý²=I >"DÁ ¾T>Ý"""" f"]` êw[n u}SKÿ}
Ý>T"]Á<G<' ÝK?KA< SUI^"" Ý}T]< Ò` ewcv T"H@É fðMÑ<U ÄJ"M:: ÄI
u^c< ue' ²?Ò S`H fUI`f "<eØ K="}f ¾T>Ñv"< `°c Ñ<ÇÃ `'"<:: ¾}Ñ-<
S[Í<" Ý}'`"<G<" êw[n ""H@Ç<G< u%EL uT>kØK"< Ñê LÃ uÅ[Í G<Kf

Sp[w ÁKuf" ²Ñv >eð\:: u²Ñv " <eØ ¾¿ Ö" " ^ Ô•< u>"É uŸ<M É;S,,< ÅÓV
uK?L uŸ<M Æeð\!

Å[Í G<Kf" ¾T>SKŸf ²Ñv

"p© ¾f/u?f" ¾>"vu= Tlu[cw fee`" ¾T>SKŸf f"}"

uf/u?f" uTlu[cu< S"ŸM ÁK< Ö"" ^ Ó"-<',,<

uf/u?~"" uTlu[cu< S"ŸM ÁK" }dfö ¾T>ÁÁ"pñ "pó,,<

›ËS/ ¾f/u?~" ›¨<Ç© G<'@“ f/u?~ Ÿ>"vu=¨< Tlu[cw Ò` ÁK¨<" p`uf
u}SKŸ} ØMp f"}“ ¾ŸKuf êw[n ›"H>ÇDM/›"H>ÇK<::

›ËS _____ k" _____

¾S<Á ›T"] _____ k" _____

¾}ÿ“”’< }Óv^f” SÑUÑU

¾ýaËif 8 >ÒTi

>G<” uf/u?„<“ uTlu[cw LÃ ¾T>Á}ÿ<[”< ýaËif >ÒTi LÃ fÑ—L<G<:: u²=I
ýaËif ¾f/u?<G<” }Úvß G<’@ u}SKÿ} "k[v<G<f ÑKé u}ÚT] ŸTlu[cu< Ò`
ÁK”<” ”p© fee` u}SKÿ} f”}“ >"H>Ç<%EM:: u}ÚT]U ŸLÃ Ÿ}Ökc”< G<’@
>”é` K=Ökc< ¾T><K< Ø””_“ É;S„<” KÃ<%EM:: ýaËi~ ŸSÖ“kl uòf
k×¿ `Uí ¾}Ökc<f” ’Øx< u}SKÿ} Ÿ>T"]Á<G< Ò` ”<ÃÃf T"H@É ’”<::
u”<ÃÃ~ LÃ ¾}’c<f” Gdx< KTeð` ĀI” Ñê }ÖkS<::

M”ÁÃvt”< ¾Uht”< õ_ Gdx<

uewcv”< ”pf ¾}Á² Te”h



ýaĒif eU"f "Kð" < ¾kÖK

Å[í 3:- Ö""^ Ô•<" ¾T>ÁÒØS< Sc"iKA<

ÅI Å[í ukØ ŸÅ[í G<Kf ¾T>kØM c=J" uf/u?f" Tlu[cw }dfö ²<]Á ¾¿ Ö""^ Ô•<" ¾¿Ÿc~ <Óa<" KÃ<G< ¾UfSKŸ~uf ÅJ"M:: Ø"" <" u}SKŸ} K"Åð~ ¾uKÖ "Ç=hhK<"uÖ""^ SW[f LÃ "Ç=Ñ'u< ¾T>ÁÓ²< Gdx<"U fc' ^L<G<:: ÉiS,,<" u}SKŸ}U ¾SðfH@ Gdx<" ðLMÒL<G<::

KUdK? Ö""^ ¾"Lĩ SUI` lw[f "K "LÐ< f/u?~" K=[Æ ¾T><K<vt" <" S"ÑÊ< fÖITL<G<::

SUI^" Tlu[cv© }Óv^f" KTÅ^Ēf" KT"kdke "póf ¾J'vt" < ¾Ñ>²? Ø[f ŸJ'U U"Mvf Ÿm ¾>"vu=" < c< Ö` ¾Ui` ewcv KTÉ[Ó ¾T>Áe<M S`NÓw` 'Éö S"kdke Å%LM::

u²=l" uk×¿ Ñê LÃ G<Kf W"Ö[¼< k`u" <L<%EM:: u>"Å—" < W"Ö[» Ø"" <" uK?L" < ÅÓV Sc"iKA<" f²[ ^L<G<:: uÅ[í 3 LÃ KT>Öupv<G< i"" <" Ū" SÅ[Ó >Kuf; ¾T>K" <" ØÁo ufŸ<[f S`U^<G< K=cö\ ¾T>Ñvt" < Gdx<" Ÿ"c" <G< u%EL c"Ö[¼‡" >TEK<::

Ø""_<	¾TÔMu% Gdx<

--	--

Sc"iKA<	³ / ₄ SõfN? Gdx<

›ËS ³/₄f/u?f Tlu[cw Ó"-<'f" u}SKY} ³/₄¿ Ø""_< ³/₄uKÖ KTÔMuƒ" ÉiS,,<
KThhM ³/₄T>[Æ ³/₄}KÁ¿ Gdx<" KSc"2` <LDM/<LL<::

›ËS _____ k" _____

³/₄S<Á >T"]_____ k" _____

Á[í 4- ¾f/u?f Tlu[cw ýaĚjf

u²=I ýaĚjf eKf/u?f" Tlu[cw ueóf SS`S` <L%EM:: >G<" Āl" `°c Ñ<ÇĀ u}SKY} >"É SsY ¾U"cØuf "pf LĀ Ā`c"M:: ¾} "c' ¾ÉUÇT@ Gdx< LĀ ŸSÉ[d<G< uòf K=•\ uT><K< >T^à< LĀ ŸK?KA< SUI^"" Ÿ}T]‰G< Ò` } "Á¿:: >"É c"< Kw‰< ŸT>Á"<Ö'Ø" ĀMp Ÿw²< c< "ĀSöfN? ¾T>ÁS\ ¾}KÁ¿ Gdx< K=ðMI Ā<LK<::

¾}Ökc"<" `°c Ñ<ÇĀ u}SKY} ¾}KÁ¿ >T^à<" SÖkU Ā‰LM::

1. f/u?f" Tlu[cw uÖ^ "Ç=c\ ¾T>Āe<M ýaĚjf S"Āö KUdK?:- uÖ^ ¾>"vu= Øun "penc? T"H@É Ā‰LM:: K²=G<U S_f" ¾³ð <Ó™<" ŸTlu[cu< TÓ-f u=‰M }T}< uĀ" }ŸL }Óv` LĀ K=d}ñ Ā<LM::
2. uf/u?f" uTlu[cw S"ŸM Ó"-<'f KSöÖ` ¾T>Āe<M ýaĚŸf KUdK?:- f/u?~ >ÇÇ=e ¾}T] SkSY< ĀðMÖM □"uM:: f/u?~ ¾Ñu= Tcvcu=Ā S`NÓw` uS"Āö ¾Ñ"²w ÉÖð Ÿ>"vu="< Tlu[cw □"Ç=ĀÑ~ Gdw K=k`w Ā<LM:: u>T^ß'f S<Á ÁL†"< ¾Tlu[cu< >vLf uÑ"²w Ufj ¾} "c'< SkSY<" uSe^f uÑ<Mu†"< K=[Æ Ā<LK<::
3. uTlu[cu< ²"É ¾f/u?~" "penc? u}SKY} ÁK" Ó"³u? KTdĀÓ ¾T>'Āö ýaĚjf KUdK?:- f/u?~ "p© "penc?‡" u}SKY} Ÿ>"vu="< Tlu[cw ¾T>c^Û "ĀU Q´w K=ĀĀ†"< uT><M eö^ ¾T>KÖñ ¾²?" Sên?„<" K=Á²ÖĬ Ā<LM::

Āl" ¾SdcK< Gdx<" Ÿ²[²^<G< u%EL KĀ[í 4 LĀ uUk`u<f ²Ñv LĀ >eö^†"<:: u²Ñv"< LĀ K=w^ \ ¾T>Ñv†"< Gdx< ¾T>Ÿ}K<f "†"<:: ¾c'²^<%E†"< Gdx< u}SKY}:-

- Gdu< "Èf "Ā}Óv` K=K"Ø "ĀT><M
- 'T"" Td}ð "ĀT>Ñv
- ¾Ñ"²w "Ü ¾T>ÖĀp SJ" >KSJ'<"
- ÁÖØTK< }wK"< ¾T>cu< <Óa<"
- <Óa‡" "Èf Söf "ĀT>‰M

¾}c'²\f Gdx< }Úvß" K=}Ñu\ ¾T><K< SJ"†"<" >[ÒÓÖ<:: ŸýaĚj~ kĀUf f"}"< u}Úvß K=Ā[ev†"< ¾T><K< Gdx<" Sc"²`" u}SKY} Ø\ Ó"³u? "ÇÇu^<G< ĀS"M::

u`ØØ u²=I ç`e H>Āf LĀ Gdx‰G<" "Ā}Óv` ¾SK"Ø "penc? >fĒU\U:: Āl °pÉ ¾S"Āö" ¾<Ó` ð<'f" wnf ¾TÔMuf MUUE´ "<:: ĀG<"" ÖnT> Gdx< "L<G< "Āðf K?KA< ¾}ŸĀ ¾S<Á ThhÁ S`NÓwa<" efŸ}K< "Ā}Óv` ¾SK"Ø °ÉM Ā•^†M:: u}Óv` 19 LĀ Āl"" uT>SKYf °pÉ f'ÉóL<G<:: Á[í >^f" "Ö"kn<G< u%EL ýaĚjf 8 uTÖ"kl H>Āf LĀ ¾kcT<G<f" fUI`f u}SKY} ²Ñv fÉóL<G<:: uSkÖMU Ÿ>T"]Á<G< Ò` ¾ýaĚjf jKd ewcv Ā•^<%EM::

Å[í 4" ¾T>SKŸf ²Ñv

¾fUI`f u?f/Tlu[cw ýaË;f

Ÿ²=I u< ýaË; <G< ¾T>Á}Ÿ<`v†"<" `°c Ñ<ÇÄ<" "Å}Óv` KSK"Ø ¾T>

%oMuf" G<'@ u`^` ÓKè::

›ËS ¾f/u?f Tlu[cw ýaË;f" u}SKŸ} K=}Ñu\ ¾T><K< Gdx<"

›p`vDM/›p`vK<::

›ËS _____

k" _____

¾S<Á >T"]_____

k" _____

$\frac{3}{4}$ ýaËif 8 ²Ñv

ŸýaËif 8 ¡""<" U" }T^<G<;

ýaËif 8 uT>Ñv }Ö"sM

$\rangle \ddot{E}S$ _____ k'' _____
 $\frac{3}{4}S < \acute{A} \rangle T'']$ _____ k'' _____

ewcv $\frac{3}{4}\text{øa}\ddot{\text{E}}\text{if } 8 \text{ ;Kd}$

""D" Åe ÁL<G<) vÖ"kn<G<f $\frac{3}{4}\text{S}<\acute{\text{A}}$ TÖ"ÿ]Á ç`e f/u?<G< ÿ>"vu=Á<G<
Tlu[cw Ò` ÁK"<" fee`" K"Åð~ K=Sc`f  $\frac{3}{4}\text{T}>\tilde{\text{N}}\text{v}"<" \frac{3}{4}\text{p}`w \acute{\text{O}}"-<\text{'f u}\text{SK}\ddot{\text{Y}}\}$
uÓMê S[Çf <L<%EM::

$u^2=\text{I}$ Å[í ÿS<Á >T"]Á<G< Ò` $\frac{3}{4}\text{ýa}\ddot{\text{E}}\text{;}\sim"$ H>Åf KSÿKe $\frac{3}{4}\text{T}>\acute{\text{A}}\text{e}<\text{M ewcv}$
>"H>Æ ÿ< $\frac{3}{4}\}$ cÖ"< x Te" h $\frac{3}{4}\text{Uf}\tilde{\text{A}}^2<\text{uf '}"< \text{uewcv}"< \text{TÖnKÁ L}\tilde{\text{A}} >\text{T"}]\acute{\text{A}}<\text{G}<$
 $\frac{3}{4}>\text{e}\}\acute{\text{A}}\frac{3}{4}\text{f} \acute{\text{O}}\text{w}^{\text{~}}\text{f} \text{uêOö SeÖf } \tilde{\text{A}}\ddot{\text{O}}\text{upv}\text{†}^{\text{a}}\text{M } \frac{3}{4}^2=\text{I}" \tilde{\text{N}}\text{ê p}\tilde{\text{I}} \text{S}'\tilde{\text{N}}\text{u } \}\acute{\text{O}}\text{v}^{\wedge}<\text{G}<$
"<eØ >"~::

K"<ÄÄf "Ç=k`u< $\frac{3}{4}\text{U}\ddot{\text{M}}\ddot{\text{O}}\text{†}"< '\text{Øx}<$

uewcv"< "pf $\frac{3}{4}\}$ Ä² Te" h

dU"f 13-16

uk×Ä‡ >^f dU"f " <eØ ²Ö'— " <" " ¾SÚ[h " <" UM;f ""H>ÇK"::
"Ç=G<U u18a " 18b LÃ ¾}Ökc<f" }Óv^f uTÿ""' < H>Åf ¾44— " <" S"öp
~Sf ¾4S<Á TÖ"ÿJÁ ¢`e" ¾4T>SKÿf ÓUÑT" ÓKU²" T"H@É fËU^L<G<::

uk×Ä‡ >^f XU"f " <eØ

- ÿS<Á >T"]< Ò` uSJ" K²Ö'— " < UMÿ S²ÖËf
- ²Ö'— " <" UMÿ T"H@É (ÿ}T]< Ò` vK" Ó" -<'f LÃ ¾4T>Á}ÿ<[" <")
- UMÿ " <" Sc[f ÁÂ[Ñ ¾4>e}Á¾4f Ów`f KSeÖf ewcv T"H@É
- ¾4}Óv` 18 a " 18 b" TÖ"kmÁ >eSM;,, ÿ>T"]Á<G< Ò` ewcv
T"H@É ÃÖupv<%EM::

ewcv:- KUMÿ ²Ö~ KS²ÖËf

¾UMÿ" < k"

UMÿ K=Å[Óuf ¾T>Ñv ¾fUI`f ;öK Ñ>²?

¾fÿ<[f 'Øw 1 ÿ}T] < Ò` ¾T>•` }^ix

¾fÿ<[f 'Øw 2 (uewcv" < LÃ ÿeUU'f LÃ K=Å[evt" < ¾T>Ñu < 'Øx<)

K?KA< Te" h<

UMŸ" < ŸSÅ[Ñ< >ekÉV K>T"] SUI\|b ³/₄T>k`w ³/₄fUIf °pÉ pĭ SÁ'1"/i"
>[ÒÓØ/Ü::

UMÿ ²Ö~

u²=I Å[Í LÃ ¾fUI`f °pÇ<G<" pĩ óÃM >É`Ò<G< TekSØ >f²"Ñ<!

>e¨<c<!

- ¾fUI`f °pÇ<G<" pĩ K>T"] SUIVb eÖ<
- c¯f >iw\
- uT>Ñv }²Òì
- ÿfUI`~ U" SpcU "Å}ðKÑ uÓMê }[Æ

ÿfUI`~ SÖ"kp u%EL ¾}Å[Ñ¨<" UMÿ u}SKÿ} KT>•` ¾>e}Á¾f Ów¯f
ÿ>T"] SUIVb Ò` kÖa Á²<::

É[UMŸ ewcv Ÿ>T"] SUI` Ò` ¾T>Å[Ó

¾}Ö“kk”<” ;öK Ñ>²? ¾}SKŸ} ÓK -U²“ eŸ?T ¾'u\ Ÿ””<•<

ShhM ¾T>Ñv†”< 'Øx<

ŸS<Á >T””</ª Ò` ¾}Å[Ñ ewcv LÃ ¾}Á² Te”h
eŸ?T ¾'u[i””<”/Ÿ””<•<

ShhM ¾T>Ñv†”< 'Øx<

1.

2.

uUMŸ 8 LÃ u}Å[cuf eUU'f Sc[f ¾¿ ¾}ShhM `UÍ<

ShhM K=Å[Óv†”< ¾cu< >ÇÇ=e Óx<

1.

2.

>T"] SUIb^ ÁÅ[Ñ<f” UMŸ Sc[f >É` Ñ”< ¾cÖ<f” ¾>e}Á¾f Ów>f LÃ Ÿð[S<
u%EL ò`T<G<” >'<\” uS'Ñu }Óv^<G< ”<eØ >ekUÖ<::

**K}Óv` 18a “ 18 b $\frac{3}{4}$ T>ÁÑKÓK< SS]Á<
 $\frac{3}{4}$ ÓKcv© Ów[°pÉ“ 4—”< S”ðp `Sf ÓUÑT**

ŸLÃ u}Ökc<f G<Kf }Óv^f “ÇKñf fef }SddÃ $\frac{3}{4}^2=|$ ¢`e ¡””<•< G<K<
uS”ðp `S~  $\frac{3}{4}$ }Ÿ””’< }Óv^f” SKe wL<G<  $\frac{3}{4}$ Ufn-<uf ÃJ“M:: Ÿ>T”]Á<G< Ò`
ÁÂ[Ò<G<f $\frac{3}{4}$ SËS]Á ewcv fŸ<[f KS”ðk `S~ v²ÒÍ<G<f ÓKcv© Ów[°pÉ LÃ
”Å’u` >f²’Ñ<U:: ÃI ¡””<”  $\frac{3}{4}$ Te}T` <KA<G<” KThhM uT>Áe<LD<G< `°c
Ñ<ÇÄ< ²<]Á ÁÖ’Ö’ ’u`:: K?KA< u¢`c< K=Ö“kl $\frac{3}{4}$ T>Ñv†”< Y^<’
ýaËj„<” }Óv^f ŸT”H@É Ô” KÔ” ŸLÃ KÖke’”< ¡””<” }Ñu=”<” fŸ<[f
”Åcx<G< }eó “Å`ÒK”::

}Óv` 18a K>^}—“< S”ǫp `Sf ¾}²ÖË“<” ÓKcv© Ów[°pÉ
 SÑUÑU

ShhM ¾T>Ñv“< ’Øw 1	
¾}“cÅ `UÍ	
¾}S²Ñu< “<Ö?„<	
ShhM ¾T>Ñv†“< ’Øx< 2	
¾}“cÅ `UÍ	
¾}S²Ñu< “<Ö?„<	

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}Óv` 18b

ÓK U²“ “ $\frac{3}{4}$ S”ðk `Sf

ÓUÑT

	$\frac{3}{4}$ÓUÑT 'Øx<
c<" "ÅST]Á Gwf" uSÖkU [ÑÉ Ó"³u? Á<G<" KTÇu` $\frac{3}{4}$ }Óv` 15 i""<" U" ÁIM ÖpTE<%EM;	
}Óv` 16" "Ÿ""""<G< u%EL $\frac{3}{4}$ Te}T]Á S`Í >ÖnkT<G< LÃ $\frac{3}{4}\frac{3}{4}$ K"<Ø >K"; ŸÉa"< u}gK G<'@ S`Í SX]<" $\frac{3}{4}$ }ÖkUŸ< '""< wL<G< evL<G<;	
uýaË;f 7 LÃ ÁÖ"kn<G<f" $\frac{3}{4}$ fUI`f S[Í SX]Á U" ÁIM }ÖkT<G<uf; "Èfe }ÖkT<G<uf; Ÿ>"É "ÃU ŸG<Kf Ñ>²? uLÃ "M}ÑKÑL<G<uf S²ÒË~ }Ñu= 'u` wL<G< evL<G<;	
uUe}U\uf Ñ>²? Ôw-> u;õL<G< uSÑ- ~ U" }cT<G<; K"Åð~e ÃI" ScK<" i""<" u}ÅÒÒT> KSðçU }'de<%EM";	
ŸÑ<w-~ ~ u%EL $\frac{3}{4}$ }cx<G< $\frac{3}{4}$ >e}Á $\frac{3}{4}$ f Ów>f $\frac{3}{4}$ Te}T` eM<G<" U" ÁIM	

K=ÁhiK" < <LDM;	
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^dt" <" efÑSÓS< "Å >"É SUI` a"—" < Ø" "_Á<G< U" LÃ "' < wL<G< evL<G<;	
MhiLD†" < ¾T>Ñu< 'Øx<e U" U" "†" <;	
>"vu=Á<G<" ¾}SKŸ}" <" ¾}Óv` 17 i"" <" "Ö"kn<G< u%EL ÁL<G<uf" 'v^© G<'@ Sc[f ÁÅ[Ñ< UdK?<" ueóf Tp[w %oL<G<" ; >w^\\::	
ýaË;j 8" "Ö"kn<G< u%EL uf/u?<G<" u>"vu=" < Tu[cw S"ŸM ÁK" < Ó"-<'f ShhM >dÃ...M";	
Ÿ}T[%o<G< "LÐ< Ò` ÁL<G<" Ó"-<'f "Ëf fÑMéL<G<;	
>G<" vL<G<uf Å[Í ^d<G<" ŸSUI^" "Å >"Æ/ÇD >É`Ò<G< SIÖ` ËU^<%E"M'; KTe}T` Y^ ÁL<G< ÓUf Y^ efËU\ Ÿ'u^<G< ÓUf Ò` }SddÃ "' <" ;	

}Óv^f 18a “ 18b Ÿ}Ö“kl u%EL Ÿ>T"] Ò` ¾T>Å[Ó ewcv

K“<ÃÃf “Ç=k`u< ¾Uht“< ‘Øx<

uewcv “pf ¾}Á² Te“h

dU"f 17 -20

>G<" ¾S<Á TÖ"ŸJÁ ¢`c<" "ÅTÖ"kl ÑÅT Å`d<%EM& ""D" Åe ÁL<G<!
 "p~ ¾S~ fUI`f ¾T>Ö"kpuf uSJ'< ßU` MŸ""<"E†"< ¾T>Ñu<
 u`" }Óva< ÄÖwn<%EM:: u²=I ¾} 'd u'²=I >^f XU"f ¾UŸ""<'<f >"É }Óv`
 w%oo ""< Ÿ²=ÁU ŸS<Á >T"]Á<G< Ò` ¾SÚ[h"<" ¾¢`c<" U²" ¾T>SKŸf
 ewcv "H>ÇL<G<::

uk×Ä‡ >^f XU"f ""<eØ-:

- ÁM}Ö"kl }Óv^f" Ö"pnL<G<
- }Óv` 19" Ÿ""<"L<G<& K"Åð~ ¾}ŸÄ ¾S<Á ThhÁ S`H Ów^<G<
pÉ f'ÉóL<G<
- Ÿ>T "]Á<G< Ò` ¾¢`c<" U²" u}SKŸ} ewcv "H>ÇL<G<
- ¾}TEL ¾Te}T` ðnÇ<G<" KS""<cÉ 'Óì fj"L<G<

K}Óv` 19 ¾T>ÁÑKÓK< SSJÁ<

K}YÃ ¾S<Á ThhÁ S`NÓw` (}S<T) kxÃ'f TkÉ

uSUI`'f S<Á Y}cT^<G<f Ñ>²? >"e,, LKóf G<Kf "Sf ÃI" ¾S<Á TÖ"Y]Á ç`e uSY}M LÃ fÑ—L<G<:: ÃI ç`e uSUI^" TcMÖ—< " <eØ u}Y}L<G<f fUI`f LÃ }S`e,, ÁL<G<" MUÉ" °" <kf KTÇu` >Ó³D<%EM wK" }eó "Á`ÒK": YST` Te}T\ H>Áf Ò` M@IÇ†"< ¾T>Ñu< u` " ýaËi,,<" }Óv^f" >Y""<"†HM:: Y'²=I i""<•< ¾kcT<%E†"<" Gdx< fUI`f uUfcÖ<uf Ñ>²?U J' u°pÉ 'ÓI<G< LÃ K=}Ñu\ ÁÑvM:: u}ÚT]U Y>T"]Á<G< ÁÑ—<%E†"< ¾>c}Á¾f Ów`,"< uÒ^ Á"H@Ç<%E†"< " <ÃÃ,,< ¾SUI`'f S<Á<G<" uThhM [ÑÉ cò Ñ³ >É`ÔL<%EM:: u²=I ÁÍ Y>T"]Á<G< Ò` ¾ç`c< U²" >eSMi,, KUÃ`Ñ<f ¾Ò^ ewcv 'ÒI "<G< }wKA ÆcvM::

U"U ""D" S<K< ¾SUI`'f ¾S<Á ðné KTÓ-f uT>Áe<L<G< ÁÍ LÃ ¾Á[d<G< u=J"U ¾S<Á ThhÁ `UÍ<G< ²=I LÃ ¾T>Ñ >ÃJ"U:: ST` ¾°ÉT@ M; H>Áf "'<:: uS<Á"< LÃ eY}cT^<G< É[e °" <k<G<" ;H>KA<G<" " MUÇ<G<" TÇu" K²Ko"< SkÖM ÁÑv<%EM::

ÃI ¾TÖ"Y] ç`e ¾}YÃ ¾S<Á ThhÁ (}S<T) S`NÓw` >"É > "M""<:: T"†"<U SUI` u¾~S~ u=Á"e K60 c`,"< ¾}S<T }Óv^f" Tÿ"" ÃÖupuM:: ¾}Ökc"< Ñ>²? ¾}KÁ; ç`f<" u`kf >KuK²=ÁU òf Kòf }Ñ"" uST` Ågð"M:: u}ÚT]U }Óv^© U`U` T"H@É" uTlu[cw fUI`f øaËi,,< LÃ Sd}ð" ÅÖÑM:: K>Ç=e ÈT] SUI^" ¾S<Á >T"] J• TÑMÑM ¾}ST S`NÓw` >"É i""<" ""<:: U"MvfU uSÚ[h‡ "Sf Y"" } S"YM K>Ç=e ÈT] SUI^" ¾S<Á >T"] J"<G< MÑKÓK< f<LL<G<:: uSJ'<U S<Á<G<" KThhM ¾T>Áe<LD<G< ¾}KÁ; S"ÑÉ< >K<::

u¾~S~ kx; ¾}S<T }Óv` uU" `°c Ñ<ÇÄ< ²<]Á T"Ö"Ö" "ÁT>Ñv"< ç`°c SUI^<G< Ò` uS"Á¾f f"e"L<G<:: }Óv` 19 Y²=I ¾TÖ"Y]Á ç`e vhÑ` ukxÃ'f MÇwb†"< ¾UfðMÖ†"<" ¾Te}T` MUÊ<" ¾SS`S` °ÉM ðØaL<%EM:: u}Óv` 18a ÁÖ"nn<G<f" ¾ÓM }Óv^© °pÉ S'h uTÉ[Ó ÓK êw[n >"H>Æ:: u}Ökc<f`°c Ñ<ÇÄ< ²<]Á ¾ShhM `UÍ<" ¾T>Ád¾f °ÉK< Ã•^M"; ""H@Ç<G<f UMÿ u%EL ¾KS<fe Óx<; ¾}KÁ; ¾fUI`f >Ã'","< u}SKÿ} ÁL<G<" "Éð Gdv© °" <kf Y`p~ Ò` "Ç=^SÉ ¾TÉ[Ó òLÔf >L<G<"; ¾M; òLÔf ÁL†"<" }T]< vQ`Ã uØMkf KSS`S`" KS[Çf fðMÖL<G<"; U"MvfU eK}KÁ; ¾ST` eM,,< (Learning styles) ¾uKÖ SÑ"²w fðMÑ<U ÁJ"M:: "ÃU ÁÓV U"Mvf uýaËi<G< SÖ"kmÁ LÃ eKf/u?f" >"vu="< Tlu[cw ¾c'²^<G<'f" ¾SðfH@ Gdw u}Óv` ¾T³M òLÔf >Éav<G< ÁJ"M::

¾Te}T` Y^" uÑó<G<uf IØ` ufUI`<G< SÓóf "ÇKv<G< >eu<:: u}d"L<G< Ñ>²? uT>kØK"< Ñê ¾k[uL<G<" W"Ö]» >TEK<" YS<Á >T"]Á<G< Ò` ¾ ç`c<" U²" >eSMi,, uT>•^<G< ewcv LÃ }'ÒÑ\uf::

Óv` 19

K}ŸÄ ¾S<Á ThhÁ (}S<T) °pÉ S"Åõ

• "ÅSUI` ^c?" eÑSÓU LÇw^†" < ¾T>Ñu< Ö" "^ Ô•< ¾T>Ÿ}K<f "†"<
• LhiL†"< ¾T>Ñu< 'Øx<
• ¾["G<v†"<" ¾uKÖ L"<nt"< ¾T>u< ¾Te}T` i""<•<
• ukxÄ‡ Ñ<ÇÄ< ²<]Á MUÉ T"uf Ä•`w—M::
• kØKA Gdx<l"/i" "Å>eðLÑ>'†"< upÅU }Ÿ}M ²`´`/]" ¾T>kØK"<" iðM >Ö"p/m
Kkx; `Sf °ÉK<" ¾TÑ~ ŸJ' Ÿ}ŸÄ ¾S<Á ThhÁ }ÓvaŠ " <eØ ¾T>Ÿ}K<f Ä"}K<:: 1. 2. 3.

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