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TPTRGVMFPIL9^""\$P\_\_VK]"MDVM"EI]`"MDE"&ODPPG"PQ"' RKLFIS&L"QVORGMN"VQQFKUL"MDE"QPGP\_FIS"OO-' "KELEVKOD" YEATEOMVMFPIL"VI]"OPUTEMEIOFEL^"QPK"LMR]EIML"FI"PRK"IRKLFIS"TKPSKVUL9"!

- "TKETVKE"I RKLEL"\_FMD"V"\VLF0"RI ] EKLMVI ] FI S"P0"MDE"TKP0ELLEL"P0" KELEVK0D9"'6KV] RVMEL"0VI "RI ] EKLMVI ] "VI ] "VTTGN"KELEVK0D"0FI ] FI SL"0KPU"I RKLFI S"VI ] "PMDEK" ] FLOFTGFI EL"FI "MDEFK"0GFI FOVG"TKV0MF0E9""\$DEN"RI ] EKLMVI ] "MDE"\VLF0"EGEUEI ML"P0"EJF] EI 0E=\VLE] "TKV0MF0E`"0VI "\_PKH"\_FMD"PMDEKL"MP"F] EI MF0N"TPMEI MFVG"KELEVK0D"TKP\GEUL'"VI ] "0VI "0PG6V\PKVME" PI "KELEVK0D"FMEUL9""
- "Y%VLMEK@L"E]ROVMFPI"TKETVKEL"IRKLEL"QPK"QGEAF\GE"GEV]EKLDFT"VI]"OKFMFOVG"VOMFPI"\_FMDFI"

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  %VLMEK@L"E]ROVMFPI"ECRFTL"IRKLEL"\_FMD"JVGRV\GE"HIP\_GE]SE"VI]"LHFGGL"MP"GEV]"ODVISE: "

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- #9 \$DE"TKP@EOM"ODVFK`"\_DP"URLM"\E"V"QRGG-MFUE"&ODPPG"PQ"' RKLFI S"QVORGMN"UEU\EK"\_FMD"V"]POMPKVME9""
- C9 O"OPUUFMEE"UEU\EK"QKPU"MDE"QRGG-MFUE"&ODPPG"PQ"' RKLFI S"QVORGINN"\_\_FMD"V"UFI FURU"PQ"VI "%&' 9""
- h9 OI "PTMFPI VG"MDFK] "OPUUFMMEE"UEU\EK"PK"OPI LRGMVI M "UVN"\E"QKPU"PRMLF] E"MDE"&ODPPG"PQ"' RKLFI S`" \RM"URLM"DPG] "V"UFI FURU"PQ"V"%VLMEK@L"] ESKEE9"""

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KEJFE\_"VI]"KEQFI EUEIM "VLLFLMVI OE"FI "F]EIMFQNFI S"QVORGMN"MP"LEKJE"PI "MDE"\$EVU"PK"VL"OPI LRGMVI ML`"
]EJEGPTUEIM"PQ"V"TKP@EOM"MUEGFI E"WOTTEI]Fa"-X"\_FMD"MDE"LMR]EIM"VI]"OFI VG"KEJFE\_"VI]"VTTKPJVG"PQ"MDE"
TKP@EOM"TGVI "WOTTEI]Fa"5X"\_DFOD"VKE"KECRFKE]"MP"\E"OPUTGEME]"TKFPK"MP".) 1"LR\UFLLFPI "WFQ"VTTGFOV\GEX9"
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OPILRGMVMFPI"\_FMD"MDE"\$EVU"UEU\EKWLX"VI]"VLLFLM"MDE"LMR]EIM"\_FMD"TKP@EOM"TKELEIMVMFPI"VI]3PK"PMDEK"

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- #9 %EEM"\_FMD"MDE"%&' "TKP@EOM"ODVFK"VI]"LMR]EIM"PI"V"KESRGVK"\VLFL"VI]"TKPJF]E"QEE]\VOH"\_DEI"
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- C9 ) EJFE\_"MDE"0FI V0"%&' "(KP0EOM"MP"EI LRKE"KFSPK`"VTT0FOV\F0FMN`"VI]"FUTVOM"P0"MDE"\_PKH"MP"MDE"
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- h9 (KPJF]E"%FGFHFI"41FJEKLFMN"&ODPPG"PQ"' RKLFIS"\_FMD"V"ORKKE1M"ORKKFORGRU"JFMVE"VI]"VLLFLM"\_FMD" 0VOFGFMVMFPI"PQ"KEcRFKE]"OGFIFOVG"VSE1ON"OP1MKVOML"WFQ"VTTGFOV\GEX""

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ODVFK"VI]"] EMEKUFI E"TKPSKELLFPI "EaTEOMVMFPI L'"LODE] RGE] "UEEMFI SL"VI] "MDE"MFUEGFI E"QPK"OPUTGEMFPI "PQ"

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OPUTGEME"MDE"TKPeEOM"\_FMDFI "MDE"EATEOME] "MFUEQKVUE9"7VFGRKE"MP"OPUTGEME"MDE"TKPeEOM"VL"VSKEE] "RTPI "PK"

\_FMDFI "MDE"TKPeEOM"MFUEGFI E"UVN"KELRGM"FI "KEJFLFPI "PQ"MDE"MFUEGFI E"ODVI SE"FI "MDE" (KPeEOM"%&' "(KPeEOM" - DVFK"VI] 3PK" (KVOMFOE"%EIMPK"VI] "MDE"FI V\FGFMN"MP"SKV] RVME"PI "MFUE9!'"#\$%&' #(!) \$(#!\*' \*#\* +#&!, -' #+ +, #!. \*#/!

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- h9 -PUTGEME"VI]"LR\UFM"VG"KECRFKE]"QPKUL"MP"MDE"%&' "TKP@EOM"ODVFK"JFV"MDE"O]UFI FLMKVMFJE"
  OLLFLMVI M"FI OGR]FI S"-RKKFORGRU"; FMVE"QPK"TKP@EOM"\$EVU"UEU\EKL"\_DP"VKE"QKPU"PRMLF]E"MDE"
  &ODPPG"PQ"' RKLFI S"QVORGMN9""
- f9 , LMV\GFLD"KESRGVK"UEEMFI SL"\_\_FMD"MDE"%&' "TKP@EOM"ODVFK"MP"LEM"SPVGL`"EI LRKE"TKPSKELL`"VI ]"

  OPUTGEME"KECRFKE]"]PORUEI MVMFPI "MP"UPJE"MDE"TKP@EOM"QPK\_\_VK]"VOOPK]FI S"MP"MDE"ELMV\GFLDE]"

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- j9 &ODE]RGE"VG"UEENFISL"PK"EGEONKPIFO"OPUURIFOVNFPI"\_\_FMD"MDE"%&' "(KP@EON"\$EVU"7VORGNN"VI]" (KVONFOE"%EIMPKL9""

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- $\label{lem:condition} \mbox{k9 } \mbox{$PV]$"VI ]"OPUTGN"\_FMD"VG"KEGEJVI M"TPGFOFEL"VI ]"TKP0E]RKEL"ELMV\GLDE]"\n"MDE"&0DPPG"PQ"' RKLFI S" A".) 1 \mbox{$QV$"}$
- 19 %VFIMVFI"OKE]EIMFVGL"KEGVME]"MP"EMDFOVGGN"OPI]ROME]"KELEVKOD"QKPU"-.\$."PK"PMDEK"TKPJF]EK9"""
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8PR" "OPGGEOM\*VIN"] VMV"PK"TEKQPKU"VIN"LMR]N"KEGVME]"VOMFJFMFEL"\_FMDPRM"QPKUVG"TEKUFLLFPI" SKVIME]"\N"%FGGFHFI&".) 1"VI]"VGLP"VIN"PMDEK"PKSVIFbVMFPIVG".) 1L"FIJPGJE]"FI"MDE"TKPeEOM9"\$P"P\MVFI"QPKUVG" TEKUFLLFPI""V"%FGGFHFI") EJFE\_") ECRELM"7PKU"WPK".) 1", aEUTM"OTTGFOVMFPIX"URLM"\E"0PUTGEME]9") EQEK"MP" %FGGFHFI&".) 1" < E\LFME"VM"DMTL?33\_\_\_\_9UFGGFHFI9E]R3.) 1"9" < DEI"V"TKPeEOM\*FIJPGJEL"PRMLF]E"PKSVIFbVMFPIL"" NPR"\_FGG"IEE]"MP"0PIMVOM\*MDE"KELTEOM\*JE"FILM\*MRMFPI"MP"F]EIM\*GN"FML".) 1"VTTGFOVMFPI"TKPOELL9" < DEI"UPKE" MDVI"PIE"PKSVIFbVMFPI"FL"FIJPGJE]"0FKLM"LR\UFM\*MDE".) 1"VTTGFOVMFPI"MP"MDE"PRMLF]E"PKSVIFbVMFPI"VI]"\_DEI" VTTKPJVG"GEMMEK"\_FMD"MDE"VTTGFOVMFPI9""!

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(VSEL"LDPRG]"\E"I RU\EKE]"0PI LEORMFJEGN"RLFI S"OKV\F0"I RUEKVGL"LNVKNFI S" FMD"MDE"$FMGE"TVSE" DF0D"FL"
TVSE"! 9"""(VSE"I RU\EKL"LDPRG]"\E"FI "MDE"TVSE"DEV] EK` "QGRLD"KFSDM9"!
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GEOM"UVKSFI 9""/EV]EKL"LDPRG]"\E"I P"UPKE"MDVI "fd"ODVKVOMEKL"MPMVG"FI OGR]FI S"LTVOEL9""/EV]EKL"LDPRG]"\E"
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	TKEJFPRL"KELEVKOD"0FI ]FI SL9"!	
\$DEPKEMFOVG"7KVUEPKH"!	.]EIMFON"VI]"]ELOKF\E"MDE"IRKLFIS"MDEPKN3UP]EG"	"!
	LEGEOME]"MP"SRF]E"MDE"KELEVKOD"TKP@EOM9""!	
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	FIOGRLFPI"VI]"EaOGRLFPI"QVOMPKL`"VI]"]VMV\VLEL"	
	RMFGFbE]9""5ELOKF\E"MDE"0PGGV\PKVMFJE"MEVU"UP]EG"	
	VI]"MDE"LMR]EIM@L"KPGE9"".]EIMFQN"DRUVI"LR\@EOM"	
	OPILF]EKVMFPIL`"LEMMFIS`"VIN"MPPGL"RMFGFbE]"FI"	
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TKVOMFOE"LTEOFVGMN"KPGE`"LTDEKE"PQ" I RKLFI S"	
TKVOMFOE`"TVMFEIM3LNLMEU"PRMOPUEL"!	
.]EIMFON"VI]"]ELOKF\E"PKSVIFbVMFPIVG"ODVISE"	"!
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OPKKEGVME"VI]"LR\LMVIMFVME"MDE"E]ROVMFPI"	
LRSSELME]9"".0"V"IPI=IRKLFIS"MDEPKN"TKPJF]EL"V"	
UPKE"VTTKPTKFVME"QPRI]VMFPI"QPK"MDE"TKP@EOM"	
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E]ROVMFPI3MEVODFIS9"&EVKOD"LMKVMESFEL`"	
VTTKPTKFVME"LMVHEDPG] EKL`"TKE"VI ]"TPLMMELML`"	
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VQQFGFVMFPI`"VI]"VRMDPK"IPME"i"V"LMVMEUEIM"KESVK]FIS"TVKMFVG"QRQQFGGUEIM"PQ"]ESKEE"KECRFKEUEIML"VI]"NEVK"!

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