Hqtv" Yqtvj "Kpfgrgpfgpv"Uejqqn"Fkuvtkev 449"Fqnqtgu" Jwgtvc"Gng o gpvct {"Uejqqn 4244/4245"Ec o rwu"K o rtqxg o gpv"Rncp

Ceeqwpvcdknkv{"Tcvkpi<"Pqv"Tcvgf<"Fgenctgf"Uvcvg"qh"Fkucuvgt



Dqct f"Crrtqxcn"Fcvg<"Ugrvg o dgt"8."4244" **Rwdnke"Rtgugpvcvkqp"Fcvg**"Ugrvg o dgt"8."4244

Okuukqp"Uvcvg o gpv

$Vcd \tt ng"qh"Eqpvgpvu$

| Eqortgjgpukxg"Pggfu"Cuuguuogpv | 6 |
|---|----|
| Fgoqitcrjkeu | 6 |
| Uvwfgpv"Ngctpkpi | 6 |
| Uejqqn"Rtqeguugu" ("Rtqitcou | 8 |
| Rgtegrykqpu | : |
| Rtkqtkv{"Rtqdng o "Uvcvg o gpvu | ; |
| Eqortgjgpukxg"Pggfu"Cuuguuogpv"Fcvc"Fqewogpvcvkqp | 34 |
| Fkuvtkev" I qcnu | 36 |
| Fkuvtkev" I qcn"3<"Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Tgcfkpi"htqo"56' "vq"69' "d{"Cwiwuv"42460 | 37 |
| Fkuvtkev" I qcn"4<"Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Ocvjgocvkeu"htqo"56' "vq"67' "d{"Cwiwuv"42460 | 42 |
| Fkuvtkev" I qcn"5<"Kpetgcug"vjg"rgtegpvcig"qh"uvwfgpvu"itcfwcvkpi"ykvj"c"EEOT"kpfkecvqt"htqo"65' "vq"6:' "d{"Lwpg"42460 | 46 |
| Fkuvtkev" I qcn"6<"Gpuwtg"cnn"uvwfgpvu"jcxg"ceeguu"vq"c"uchg."uwrrqtvkxg"cpf"ewnvwtcnn{"tgurqpukxg"ngctpkpi"gpxktqpogpv0 | 49 |
| Ecorwu"Hwpfkpi "Uwooct{ | 55 |
| Cffgpfwou | 57 |

Eqortgjgpukxg"Pggfu"Cuuguu o gpv

Tgxkugf1Crrtqxgf<"Ugrvg o dgt"52."4244

Fgoqitcrjkeu

Fgoqitcrjkeu"Uwooct{

 $Fqnqtgu" J wgtvc" Gng o gpvct \{"y cu"dwknv"kp"4225"vq"jgnr" y kvj"vjg"kpetgcug"qh"gptqnn o gpv"kp"vjg"Pqtvjukfg0""Qwt"uvwfgpvu"hggf"kpvq"Mktmrcvtkem" o kffng"uejqqn"dghqtg"eqpvkpwkpi"vjgktgfwecvkqp"cv"Pqtvjukfg" J kij"Uejqqn0$

Dcugf"qp"vjg"3;/42"uejqqn"tgrqtv"ectf"qwv"qh"vjg"779"uvwfgpvu"gptqnngf"qp"ecorwu.";8'"ygtg"Jkurcpke."4'"Yjkvg."307'"Chtkecp"Cogtkecp"cpf"07'"ctg"vyq"qt"oqtg"tcegu0

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Fgoqitcrjkeu"Uvtgpivju

Uvwfgpv"Ngctpkpi

Uvwfgpv"Ngctpkpi"Uwooct{

 $Uvtqpi"kpuvtwevkqpcn"rtcevkegu"ctg"vjg"dcemdqpg"qh"gxgt{"uweeguuhwn"uejqqn0"Cv"Fqnqtgu" J wgtvc"Gng o gpvct{"yg"ctg"eq o o kvvgf"vq"cecfg o ke"uweeguu"cpf"gzegnngpeg"hqt"cnn"uvwfgpvu0"Kpqtfgt"vq"cejkgxg"vjku."vgcejgtu" o wuv"jcxg"jkij"gzrgevcvkqpu"hqt"cnn"uvwfgpvu."cnqpi"ykvj"tkiqtqwu"kpuvtwevkqp"cpf"vjg"pgeguuct{"uwrrqtv"hqt"uvwfgpvu"vq"cejkgxg"vjgkt"ngctpkpi"iqcnu0}\\ Vgcejgtu"ctg"gzrgevgf"vq"eqnncdqtcvg"kp"Rtqhguukqpcn"Ngctpkpi"Eq o o wpkvkgu"*RNEu+"vq"rncpu"vjcv"gpicigf"cpf"uwrrqtv"uvwfgpvu"kp"cnn"eqtg"eqpvgpv"ctgcu"kp"itcfgu"RM"vjtqwij"7vj0"Cnnvgcejgtu"ctg"cnuq"gzrgevgf"vq"uwdokv"yggmn{"nguuqp"rncpu"cnkipgf"vq"vjg"HYKUF"Ewttkewnwo"Ueqrg"("Ugswgpeg"cpf"Nguuqp"Uvtwevwtg0"Cnkipgf"hqtocvkxg"cuuguu o gpvu"yknn"dg"rtqxkfgfvq"uvwfgpvu"vjtqwijqwv"gcej"wpkv"qh"uvwf{."cpf"vjg"fcvc"yknn"dg"icvjgtgf"cpf"cpcn{|gf"kp"Yggmn{"Fcvc"Oggvkpiu"ykvj"vjg"cfokpkuvtcvkxg"vgco0"Uvwfgpv"rtqitguu"yknn"dg"enqugn{oqpkvqtgf"uq"kpvgtxgpvkqpu"ecp"dg"rtqxkfgf"kp"c"vkogn{"cpf"ghhgevkxg"ocppgt0}\\ \end{tabular}$

Uvwfgpv"Ngctpkpi"Uvtgpivju

 $\label{thm:continuous} Vjg"kpuvtwevkqpcn"rtcevkegu"kp"vjg"nqygt"itcfgu"jcxg"gpicigf"uvwfgpvu"kp"xktvwcn"cpf"kp/rgtuqp"ngctpkpi0""Vjg{"jcxg"cnuq"fqpg"c"itgcv"lqd"dwknfkpi"tgncvkqpujkru"ykvj"cnn"uvwfgpvu0""Kp/rgtuqp"uvwfgpvu"jcxg"dggp"oqtg"gpicigf"kp"vjg"ngctpkpi"cpf"ikxkpi"c"nqv"qh"ghhqtv"kp"vjgkt"yqtm0""Vgcejgtu"kp"nqygt"itcfgu"ctg"wukpi"ocpkrwncvkxgu"fckn{"vq"gpicig"vjg"uvwfgpvu"cpfvgcej"vjg"eqpegrv"dgjkpf"vjg"rtqeguu0"}$

Rtqdng o "Uvcvg o gpvu"Kfgpvkh {kpi "Uvwfgpv"Ngctpkpi "Pggfu

 $\textbf{Rtqdng}\ o\ "Uvcvg\ o\ gpv" 3<54\ '\ "qh" Mkpfgtictvgp" uvwfgpvu" o\ gv"vjg"rtqlgevgf" itqyvj" kp" OCR" Itqyvj" OQ["Ocvj" Cuuguu o\ gpv0\ \textbf{Tqqv"} \textbf{Ecwug}<\ Vkgt" 5" o\ cvj" kpvgtxgpvkqpu" y\ gtg" pqv" dgicpwpvkn" Lcpwct {"kp" Mkpfgtictvgp0}$

 $\textbf{Rtqdng} \ \textbf{o} \ "Uvcvg \ \textbf{o} \ \textbf{gpv"4"*Rtkqtkvk} \ | \ \textbf{gf} + < 74 \ ' \ "qh"Mkpfgtictvgp"Gpinkuj"Ngctpgtu"pggf"uwrrqtv"kp"fgeqfkpi"ceeqtfkpi"vjg"vjg"VZ/MGC"Ycxg"4"tgrqtv0 \ \textbf{Tqqv"Ecwug} < Ceegngtcvkqp"rtqitco \ *Ngzkc+"ku"kp"Gpinkuj0$

Rtqdng o "Uvcvg o gpv"5"*Rtkqtkvk|gf+< 59 ' "qh"Mkpfgtictvgp"uvwfgpvu"kp"vjg"tgiwnct"rtqitco"encuutqqou"pggf"uwrrqtv"kp"dngpfkpi"ceeqtfkpi"vq"vjg"VZ/"MGC"Ycxg"4"tgrqtv0 Tqqv Ecwug

Pgwjcwu"ycu"pqv"korngogpvgf"cv"vjg"dgikppkpi"qh"vjg"{gct"vq"jgnr"uvwfgpvu"ykvj"rjqpgoke"cyctgpguu0

Rtqdng o "Uvcvg o gpv"6"*Rtkqtkvk|gf+< RM"uvwfgpvu"ctg"wpfgtrgthqt o kpi"kp"cmkvgtcvkqp0"8: ' "pggf"uwrrqtv"ceeqtfkpi"vq"vjg"ENK"Ycxg"4"cuuguu o gpv0 Tqqv"Ecwug< RM"rtqitco"fqgu"pqv
Rhhqthg"ov"tSpi"rjqp_OV p"#"" ' "pggsfphwqrq pi (OO p"vjg" Of"ik#e"c

R O gto"cł O p"vjg" cwug3 r; gu O O ots; Ê

Rtqdng o "Uvcvg o gpv":"*Rtkqtkvk|gf + C D C R" I tqyvj"OQ ["fcvc."55' "qh"ugeqpf"itcfg"uvwfgpvu" o gv"vjgkt"rtqlgevgf"iqcn"kp"vjg"Gpinkuj"cuuguu o gpv"cpf"48' "kp"vjg"Urcpkuj cuuguu o gpv0 Tqqv"Ecwug Tgugctej"dcugf"kpvgtxgpvkqpu" y gtg"pqv"rtqxkfgf"vq"Vkgt"4"cpf"Vkgt"5"uvwfgpvu"fwg"vq"nk o kvgf"rncppkpi"vk o g"hqt"vjg"vgcejgtu0

 $\textbf{Rtqdng o "Uvcvg o gpv"}; < 6: \ ' \ "qh4pf" itcfg" Ocvj" uvwfgpvu" jcxg" ujqyp" rtqlgevgf" itqyvj" kp"vjg" OQ["OCR" Itqyvj" cuuguu o gpv." dwv" 56 \ ' \ "ctg" o ggvkpi" qp" itcfg" ngxgn" gzrgevcvkqpu0 \ \textbf{Tqqv} \ \textbf{Ecwug} < Uvwfgpvu" ctg" uvkm" ecvejkpi" wr" ykvj" uqog" o kuugf" kpuvtwevkqp0$

Rtqdng o "Uvcvg o gpv"32<7; ' "qh"7vj"itcfg" o cvj "uvwfgpvu" o gv"rtqlgevgf"itqyvj "kp"OCR" I tqyvj "Ocvj "cuuguu o gpv="jqy gxgt"qpn{"46' " o g"vjgkt"TKV"itcfg"ngxgn"pqt o 0 Tqqv"Ecwug<Uvwfgpvu"ctg"uvkm"ecvejkpi "wr" y kvj "uq o g" o kuugf"kpuvtwevkqp0

 $\textbf{Rtqdng o "Uvcvg o gpv" 33} < 5tf" itcfg" uvw fgpvu" kpetgcug f"vjgkt" dgpej o ctm" tgcfkpi" cuuguu o gpv" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4243+" vq" 63' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" hqt o "49' "*kp" 4244="jqygxgt." vjg {"ctg" uvkm" crrtqcejgu" rgthqt o cpeg" rg$

Uejqqn"Rtqeguugu" ("Rtqitcou

Uejqqn"Rtqeguugu" ("Rtqitcou"Uwooct{

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Oqwq

\$Uk"Ug"Rwgfg#\$

"

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3.71 1

Xkukqp

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 $Gp"nc"Guewgnc"Rtk\ o\ ctkc"Fqnqtgu"\ J\ wgtvc"pqu"guhqt\ |\ c\ o\ qu"rqt"gn"^2zkvq"cec\ f^2\ o\ keq"\ \{"nc"gzegngpekc"gp"vqfq"nq"swg"jceg\ o\ qu0"Xcnqtc\ o\ qu"wpc"\ o\ gpvcnkfcf"fg"etgek\ o\ kgpvq."ucdkgpfq"swg\ ukg\ o\ rtg"rqfg\ o\ qu"\ o\ glqtct"\ \{"cngpvct"c"qvtqu"c"jcegtnq0"Pq"rqfg\ o\ qu"jcegt"guvg"vtcdclq"uqnqu."cu<math>\|"$ swg"uqdtg"vqfq."dwuec\ o\ qu"hqtvcngegt"nqu"nc\ |\ qu"gpvtg"nqu"guvw\ fkcpvgu."gn"rgtuqpcn."ncu\ hc\ o\ knkcu"\ \{"pwguvtc"eq\ o\ wpkfcf0"Gp"Fqnqtgu"\ J\ wgtvc."lwpvqu"rqfg\ o\ qu"eqpuvtwkt"wp"hwvwtq"dtkmcpvg0

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Rtqdng o "Uvcvg o gpvu"Kfgpvkh {kpi "Rgtegrvkqpu"Pggfu

Rtqdng o "Uvcvg o gpv"3"*Rtkqtkvk | gf+<

Rtkqtkv{"Rtqdng o "Uvcvg o gpvu

Rtqdng o "Uvcvg o gpv"; < Htq o "Cwi wuv"4243"vq"Hgdtwct {"4244"RM"uvwfgpv"cvvgpfcpeg"tcvg"ftqrrgf"htq o "; 3 ' "vq":6 ' 0 Tqqv"Ecwug"; < Rctgpvu"ctg"pqv" y gmn"kphqt o gf"qp"vjg"k o rqtvcpeg"qh"RM"cu"c"dwknfkpi "dnqem"vq"vjg"tguv"qh"vjg"i tcfgu0 Rtqdng o "Uvcvg o gpv"; "Ctgcu< Fg o qitcrjkeu

Rtqdng o "Uvcvg o gpv"34< Dcugf"qp"HQEWU"hqt"vjg"4243/4244"uejqqn"{gct."77 ' "qh"vjg"qhhkeg"tghgttcnu" y gtg"hqt"uvwfgpvu"kp"Mkpfgtictvgp"vjtqwij"ugeqpf"itcfg0
Tqqv"Ecwug"34< Uvwfgpvu"ctg"ncemkpi "eqrkpi "cpf"qvjgt"umknnu"pgeguuct{"vq"tgiwncvg"goqvkqpu"cpf"eqoowpkecvg"pggfu0
Rtqdngo"Uvcvgogpv"34"Ctgcu< Uejqqn"Rtqeguugu" ("Rtqitcou

Rtqdng o "Uvcvg o gpv"42< Dcug f"qp"vjg"4243"Rcpqtc o c"uwtxg{."56 ' "qh"uvwfgpvu" fkfp)v"hggn"vjcv"kh"vjg{"iqv"wrugv"kp"encuu."vjg{"yqwnf"dg"ikxgp"vjg"qrrqtvwpkv{"vq"tgncz0 Tqqv"Ecwug"42< Pqv"cnn"vgcejgtu"jcxg"jcf"vjg"vtckpkpi"vq"k o rng o gpv"ecn o kpilugnh/tgiwncvkpi"uvtcvgikgu"kp"vjg"encuutqqo0

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Tqqv"Ecwug"3< Ceegngtcvkqp"rtqitco"*Ngzkc+"ku"kp"Gpinkuj0
Rtqdng o "Uvcvg o gpv"3"Ctgcu< Uvwfgpv"Ngctpkpi

Rtqdng o "Uvcvg o gpv"37< Nguuqp"rncpu"ctg"pqv"322 ' "cnkipgf" ykvj"vjg"HYKUF"itcfwcn"tgngcug" o qfgn0

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Rtqdng o "Uvcvg o gpv"37"Ctgcu< Uejqqn"Rtqeguugu" ("Rtqitcou

Rtqdng o "Uvcvg o gpv"3; < Dcugf"qp"vjg"4243"Rcpqtc o c"uwtxg{."75 ' "qh"vjg"vgcejgtu"hggn" o qvkxcvgf"cdqwv" y qtmkpi "y kvj"vjg"ngcfgtujkr"vgc o 0
Tqqv"Ecwug"3; < Vgcejgtu"jcxg"fkhhgtgpv"rgtuqpcnkvkgu"cpf"rgtegkxg"vjkpiu"kp"fkhhgtgpv"yc{u0
Rtqdng o "Uvcvg o gpv"3; "Ctgcu < Rgtegrvkqpu

Rtqdng o "Uvcvg o gpv" 32 < Htq o "5tf"ukz" y ggmu" vq"6v j "ukz" y ggmu." vj gtg" y cu"cp": ' "ftqr"kp"cvvgpfcpeg"htq o "; 505 ' "vq": 703 ' "ec o rwu" y k fg0 Tqqv" Ecwug" 32 < Oqtg" rctgpv" eqpxgtucvkqpu "pggf" vq" qeewt" uq" rctgpvu" wpfgtuvcpf" vj g" eqppgevkqp" qh" cvvgpfcpeg" cpf" uvwfgpv" cej kgxg o gpv0 Rtqdng o "Uvcvg o gpv" 32 "Ctgcu < Fg o qitcrj keu

Rtqdng o "Uvcvg o gpv" 4< 59 ' "qh"Mkpfgtictvgp"uvwfgpvu"kp"vjg"tgiwnct"rtqitco "encuutqqou"pggf"uwrrqtv"kp"dngpfkpi "ceeqtfkpi "vq"vjg"VZ/"MGC" Y cxg"4"tgrqtv0

Tqqv"Ecwug" 4< Pgwjcwu" y cu"pqv"k o rng o gpvgf"cv"vjg"dgikppkpi "qh"vjg" {gct"vq"jgnr"uvwfgpvu" y kvj"rjqpgoke"cyctgpguu0

Rtqdngo"Uvcvgogpv"4"Ctgcu<Uvwfgpv"Ngctpkpi

Tqqv"Ecwug"36 < Ejcpigu"kp"vjg"dknkpiwcn"rtqitcou"kp"vjg"fkuvtkev"cpf"ncem"qh"xgtvkecn"cnkipogpv"cv"vjg"uejqqn"ngxgn0

Rtqdng o "Uvcvg o gpv"36"Ctgcu< Uejqqn"Rtqeguugu" ("Rtqitc o u

 $\textbf{Tqqv"} \textbf{Ecwug"3:} < \textbf{Uvwfgpvu"fq"pqv"hkpf"nguuqpu"tgncvcdng"vq"ujctg" y kvj "hc o knkgu"cv"jq o g0 lead to knkgu"cv$

Rtqdng o "Uvcvg o gpv"3: "Ctgcu< Rgtegrvkqpu

Rtqdng o "Uvcvg o gpv"33< Uvwfgpvu"kp"RM"cpf"Mkpfgtictvgp"jcxg"vjg"nqyguv"cvvgpfcpeg"tcvg"cxgtcikpi"dgvyggp": 2/;2' "rgt"ukz"yggmu0

Tqqv"Ecwug"33 < Rctgpvu"fq"pqv"wpfgtuvcpf"vjg"korqtvcpeg"qh"gctn{"ejknfjqqf"gfwecvkqp0

Rtqdng o "Uvcvg o gpv"33"Ctgcu< Fg o qitcr j keu

Rtqdng o "Uvcvg o gpv" 5< RM"uvwfgpvu" ctg" wpfgtrgthqt o kpi "kp" cnnkvgtcvkqp0"8: ' "pggf" uwrrqtv" ceeqtfkpi "vq" vjg" ENK" Y cxg" 4" cuuguu o gpv0

Tqqv"**Ecwug**"**5**< RM"rtqitco"fqgu"pqv"qhhgt"c"uvtqpi"rjqpkeu"rtqitco0

Rtqdng o "Uvcvg o gpv"5"Ctgcu< Uvwfgpv"Ngctpkpi

Rtqdng o "Uvevg o gpv"35

Kp"vjg"4243/4244"uejqqn"{gct"vjgtg"ctg"33"uvwfgpvu"kfgpvkhkgf" I V"qwv"qh"722"uvwfgpvu0

Tqqv"Ecwug"35 < Oqtg"kphqtocvkqp"cpf"eqoowpkecvkqp"tgictfkpi"vjg"rtqeguu"qh"kfgpvkh{kpi"uvwfgpvu"hqt" I V"pggfu"vq"dg"ujctgf"ykvj"vjg"uvchh"cpf"rctgpvu0

Rtqdng o "Uvcvg o gpv"35"Ctgcu< Ue j qqn"Rtqeguugu" ("Rtqitc o u

 $\textbf{Rtqdng} \ o \ "Uvcvg \ o \ gpv"39 < \ Dcugf"qp"vjg"4243"Rcpqtc \ o \ c"uwtxg\{."62 \ ' \ "qh"vjg"uvwfgpvu"kp"5tf/7vj"itcfg"dgnkgxgf"vjcv"kh"vjgkt"vgcejgt"cumu"\\ \ Jqy"ctg"\{qwA\$"vjcv"vjg"vgcejgt"yqwnf"tgcm\{ycpv"vq"mpqy"vjg"cpuygt0\}\\ \ ycpv"vq"mpqy"vjg"cpuygt0$

 $\textbf{Tqqv"} \textbf{Ecwug"39} < \textbf{Vgce} \textbf{j} \textbf{gtu"ctg"} \textbf{qxgty} \textbf{j} \textbf{gn} \textbf{o} \textbf{g} \textbf{f"} \textbf{y} \textbf{kv} \textbf{j"v} \textbf{j} \textbf{g"} \textbf{y} \textbf{qtm"cv"vk} \textbf{o} \textbf{gu"cp} \textbf{f"hqti} \textbf{gv"v} \textbf{j} \textbf{g"k} \textbf{o} \textbf{rqtvcpeg"qh"v} \textbf{j} \textbf{g"uqekcn"g} \textbf{o} \textbf{qvkqpcn"pgg} \textbf{fu"qh"v} \textbf{j} \textbf{g"uvw} \textbf{fgpvu0} \textbf{gruv} \textbf{gru$

Rtqdng o "Uvcvg o gpv"39"Ctgcu< Rgtegrvkqpu

Rtqdng o "Uvcvg o gpv"6 Cougf"qp"OCR" I tqyvj"OQ ["Ocvj"cuuguu o gpv."39 ' "qh"hktuv"i tcfg"uvwfgpvu"ctg"rgthqt o kpi "qp"i tcfg"ngxgn0

Rtqdng o "Uvcvg o gpv"6"Ctgcu< Uvwfgpv"Ngctpkp i

Rtqdng o "Uvcvg o gpv"38 Cougf"qp"vjg"Rcpqtcoc"uwtxg{."vjgtg"ycu"c"33' "rqkpv"ftqr"htqo"Urtkpi"4243"vq"Ykpvgt"4243"kp"jqy"ygnn"vjg"hcewnv{"hgnv"vjg{"ygtg"cdng"vq"hkpf"vjg"pgeguuct{tguqwtegu"hqt"vjgkt"uvwfgpvu0}

 $Rtqdng\ o\ "Uvcvg\ o\ gpv" 38" Ctgcu < Rgteg\ rvkqpu$

 $\textbf{Rtqdng}\ o\ "Uvcvg\ o\ gpv"7 < \ Hktuv"\ i\ tc\ fg"uvwfgpvu"\ y\ j\ q"vqqm"v\ j\ g"Gp\ i\ nku\ j"O\ CR"\ I\ tq\ yv\ j\ "Tgc\ fkp\ i"cuuguu\ o\ gpv"\ fgetgcug\ f"kp"v\ jgkt"\ rgthqt\ o\ cpeg"htq\ o\ "37' "kp"DQ\ [\ "vq"34' "kp"O\ Q\ [\ "qh"\ rgtegpv"\ qhuvwfgpvu"\ y\ j\ q"\ o\ gv"v\ j\ g"\ i\ tc\ fg"\ ngxgn"\ pqt\ o\ 0$

 $\textbf{Tqqv"Ecwug"7} < \textbf{Ugnh"eqpvckpgf"vgcejgtu"pggf"oqtg"vkog"vq"hwnn{"rncp"gpicikpi"nguuqpu"kp"Tgcfkpi"vq"ocmg"uwtg"cnn"uvwfgpvu"oggv"vjg"fckn{"qdlgevkxg"cpf"vjg"hwpfcogpvcn"hqwt"ctg"rctvqh"gxgt{"nguuqp0}$

Rtqdng o "Uvcvg o gpv"7"Ctgcu< Uvwfgpv"Ngctpkp i

Rtqdng o "Uvcvg o gpv"8<7: ' "qh"6vj"itcfg"Gpinkuj"ngctpgtu" o gv"vjgkt"OCR" I tqyvj"Tgcfkpi"OQ["itqyvj="jqygxgt"54' " o gv"itcfg"ngxgn"gzrgevcvkqpu0

Tqqv"Ecwug"8< Uvwfgpvu"ctg"uvkm"ecvejkpi"wr"ykvj "uqog" o kuugf"kpuvtwevkqp0

Rtqdng o "Uvcvg o gpv"8"Ctgcu< Uvwfgpv"Ngctpkpi

 $\textbf{Rtqdng}\ \textbf{o}\ "\textbf{Uvcvg}\ \textbf{o}\ \textbf{gpv}"\textbf{9} < \textbf{Dcug}\ \textbf{f}\ "\textbf{qp}\ "\textbf{OCR}"\ \textbf{I}\ \textbf{tqy}\ \textbf{vj}\ "\textbf{OQ}\ [\ "\textbf{fcvc."}55\ '\ "\textbf{qh}\ "\textbf{ugeqp}\ \textbf{f}\ '' \textbf{i}\ \textbf{tcfg}\ "\textbf{uvw}\ \textbf{fgpvu}\ "\textbf{o}\ \textbf{gv}\ "\textbf{vj}\ \textbf{gkt}\ "\textbf{rtqlgevg}\ \textbf{f}\ '' \textbf{i}\ \textbf{qcn}\ "\textbf{kp}\ "\textbf{vj}\ \textbf{g}\ "\textbf{Urcpkuj}\ "\textbf{cuuguu}\ \textbf{o}\ \textbf{gpv}\ "\textbf{o}\ \textbf{gv}\ "\textbf{vj}\ \textbf{g}\ "\textbf{Urcpkuj}\ "\textbf{cuuguu}\ \textbf{o}\ \textbf{gpv}\ "\textbf{o}\ \textbf{gv}\ "\textbf{vj}\ \textbf{g}\ "\textbf{vj$

 $\textbf{Tqqv"Ecwug"9} < \textbf{Tgugctej"dcugf"kpvgtxgpvkqpu"ygtg"pqv"rtqxkfgf"vq"Vkgt"4"cpf"Vkgt"5"uvwfgpvu"fwg"vq"nkokvgf"rncppkpi"vkog"hqt"vjg"vgcejgtu0$

Rtqdng o "Uvcvg o gpv"9"Ctgcu< Uvwfgpv"Ngctpkpi

Rtqdng o "Uvcvg o gpv": <75 ' "qh"7vj"itcfg"uvwfgpvu"ctg" o ggvkpi "vjgkt"rtqlgevgf"itqyvj"kp"OCR" I tqyvj "Tgcfkpi="jqygxgt"53 ' "qh"7vj"itcfg"uvwfgpvu"ctg" o ggvkpi "vjg"TKV"itcfg"ngxgn pqt o u0

Tqqv"**Ecwug**": < Uvwfgpvu"ctg"uvknn"ecvejkpi"wr"ykvj"uqog"okuugf"kpuvtwevkqp0

Rtqdng o "Uvcvg o gpv": "Ctgcu< Uvwfgpv"Ngctpkpi

Rtqdng o "Uvcvg o gpv"43<;3 ' "qh"RM"uvwfgpvu"ctg"qp"vtcem"kp"vjg"OQ ["cf o kpkuvtcvkqp"qh"vjg"EKTENG"vguvkpi0

Tqqv"Ecwug"43< Vgcejgtu"rncp"gpicikpi"nguuqpu"ykvj"vjg"uvwfgpvu0

Rtqdng o "Uvcvg o gpv"43"Ctgcu< Uvwfgpv"Ngctpkpi

Rtqdng o "Uvcvg o gpv"44< 68 ' "qh"uvwfgpvu"kp"Mkpfgtictvgp"ctg"qp"vtcem"qp" o cvj"MGC"OQ["cuuguu o gpv0

 $\textbf{Tqqv"Ecwug"44} < \textbf{Uvwfgpv"cvvgpfcpeg"ku"nqy"kp"Mkpfgt"ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"okuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"uvwfgpvu"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"ochuu"ocp{"korqtvcpv"eqpegrvu0 ocmkpi"ochuu"ochuu"ochuu"ochuu ochuu"ochuu ochuu ochu$

 $Rtqdng\ o\ "Uvcvg\ o\ gpv" 44" Ctgcu < \ Uvwfgpv" Ngctpkp\ i$

Eqortgjgpukxg"Pggfu"Cuuguu o gpv"Fcvc"Fqew o gpvcvkqp

Vjg"hqnnqykpi"fcvc"ygtg"wugf"vq"xgtkh{"vjg"eqortgjgpukxg"pggfu"cuuguuogpv"cpcn{uku<

Kortqxgogpv"Rncppkpi"Feve

- Fkuvtkev"iqcnu
- Ecorwu"iqcnu
- JD5"Tgcfkpi"cpf"ocvj"iqcnu"hqt"RtgM/5
- JD5"EEOT"iqcnu
- $\bullet \quad Rgthqt\ o\ cpeg"Qdlgevkxgu"\ y\ kv\ j\ "uw\ o\ o\ cvkxg"tgxkg\ y\ "*r\ tkqt" \{gct+iv, iv\} = iv\} = iv\}$
- Ecorwul Fkuvtkev"kortqxgogpv"rncpu"*ewttgpv"cpf"rtkqt"{gctu+
- $\bullet \quad Rncppkpi"cpf"fgekukqp"o\ cmkpi"eq\ o\ o\ kvvgg*u+"o\ ggvkpi"fcvc$
- Uvevg"cpf"hgfgten"rneppkpi"tgswktgogpvu

Ceeqwpvcdknkv{"Fcvc

- Vgzcu"Cecfgoke"Rgthqtocpeg"Tgrqtv"*VCRT+"fcvc
- Uvwfgpv"Cejkgxgogpv"Fqockp
- Uvwfgpv"Rtqitguu"Fqockp
- Enqukpi "vjg" I cru "Fqockp
- Ghhgevkxg"Uejqqnu"Htcogyqtm"fcvc
- Eqortgjgpukxg."Vctigvgf."cpflqt"Cffkvkqpcn"Vctigvgf"Uwrrqtv"Kfgpvkhkecvkqp"fcvc
- Nqecn"Ceeqwpvcdknkv{"U{uvgou"*NCU+"fcvc

Uvwfgpv"Fcvc<"Cuuguu o gpvu

- $\bullet \quad \text{Uvcvg"cp} \\ f \text{"hg} \\ f \text{gtcm} \\ \{ \text{"tgswktg} \\ f \text{"cuuguu} \\ o \\ gpv \text{"kphqt} \\ o \\ cvkqp \\$
- UVCCT"ewttgpv"cpf"nqpikvwfkpcn"tguwnvu."kpenwfkpi"cnn"xgtukqpu
- $\bullet \ \ UVCCT"tgngcugf"vguv"swguvkqpu$
- Vgzcu"Gpinkuj"Ncpiwcig"Rtqhkekgpe{"Cuuguu o gpv"U{uvg o "*VGNRCU+"cpf"VGNRCU"Cnvgtpcvg"tguwnvu
- Uvwfgpv"hcknwtg"cpflqt"tgvgpvkqp"tcvgu
- Nqecn"dgpej o ctm"qt"eq o o qp"cuuguu o gpvu" f cvc
- Twppkpi"Tgeqtfu"tguwnvu
- Vgzcu"crrtqxgf"RtgM"/"4pf"itcfg"cuuguuogpv"fcvc

Fkuvtkev" I qcnu

Uejqqn"Rgthqtocpeg"Qdlgevkxg"3Rtqdngo"Uvcvgogpvu<

| | Uvwfgpv"Ngctpkpi |
|-------------------------|------------------|
| Rtqdng o "Uvcvg o gpv"6 | |

| \$FWLRQ 6WHS 'HWDLOV | | 5 H Y L H Z V | | |
|---|--------------------|---------------|--------------|---------|
| \$FWLRQ 8 W/RHYSLGH WHDFKHUV ZLWK WKH QHQHG6ZHG\$PWSLOPLHI\WSRVRSJQUDDQP | OD HD WF KK R√QL√(|) ARMULFOOD! | 8MH 10 H R G | 6XPPD\ |
| DQG DQ\ QHHGHG PDWHULDOV | 1 R Y | - D Q | 0 D U | - X Q H |
| ,QWHQGHG \$7米16DIE1K1601E1H 'DWH V 7 1 FK HUDD PN W ZHHN RI HDFK VL[ZHHN SHULRG | | | | |
| 3 URYLGHU 3 UHVHQWHU\$G3PHLQVLRQVLSDHWSRRQVVLEDDPH | | | | |
| 'HOLYHU\ 0, KQWSKI-RUGVRQ | | | | |
|)XQGLQJ6 \X)UffIW HULDOV 7LWOH,) (| | | | |
| 1R 3URJUHVV \$FFRPSOLVKHG &RQWLQXH 0 | RGLI\LVF | RQWLQ | ХН | |

6FKRRO 3HUIRUPDQFH 2EMHFWLYH 3UREOHP 6WDWHPHQWV

| | Uvwfgpv"Ngctpkpi |
|-------------------------|------------------|
| Rtqdng o "Uvcvg o gpv"4 | |
| | |

Fkuvtkev" I qcn"3< Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Tgcfkpi"htqo"56' "vq"69' "d{"Cwiwuv"42460"

Uejqqn"Rgthqtocpeg"Qdlgevkxg"5<, Kpetgcug"vjg"rgtegpvcig"qh"Mkpfgtictvgp"vjtqwij"Itcfg"7"uvwfgpvu"yjq"oggv"qt"gzeggf"rtqlgevgf"itqyvj"qp"OCR"Itqyvj Tgcfkpi"kp"Gpinkuj"htqo""74' "vq"84' ""d{"Oc{"42450"}

, Kpetgcug"vjg"rgtegpvcig"qh"Mkpfgtictvgp"vjtqwij" I tcfg"7"uvwfgpvu" yjq" o ggv"qt"gzeggf"rtqlgevgf"itqyvj"qp" OCR" I tqyvj"Tgcfkpi"kp"Urcpkuj"htqo"74' "vq 84' ""d{"Oc{"42450

, Kpetgcug"vjg"rgtegpvcig"qh"Urgekcn"Gfwecvkqp"uvwfgpvu"htqo"62 ' "vq"67 ' ""d{"Oc{"42450

Jkij "Rtkqtkv{

Gxcnwcvkqp"Fcvc"Uqwtegu< OCR" I tqyvj "Cuuguu o gpv

Uvtcvgi{)u"Gzrgevgf"TguwnvlKorcev<D{"Lwpg"4245."yg"ykm"jcxg"c"32' "itqyvj"kp"Mkpfgtictvgp"vjtqwij"7vj"itcfg"uvwfgpvu"yjq"oggv"qt"gzeggf"rtqlgevgf"itqyvj"qp"OCRItqyvj0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cfokpkuvtcvkqp"Vgco

Vkvng"K<

408

"/"VGC"Rtkqtkvkgu<

Dwknf"c"hqwpfcvkqp"qh"tgcfkpi "cpf" o cvj

"/"Tguwnvu"Ftkxgp"Ceeqwpvcdknkv{

Rtqdng o "Uvcvg o gpvu< Uvwfgpv"Ngctpkpi 8."9.":."34

| Cevkqp"Uvgr"3"Fgvcknu | Tgxkg y u | | | |
|---|-----------|-------------|-----|--------------|
| Cevkqp"Uvgr"3 < Vgcejgtu"ykm"jcxg"cvvgpfgf"vtckpkpi"vq"rtqxkfg"Vkgt"4"cpf"Vkgt"5"kpuvtwevkqpu"ykvj"vjg"jgnr"qh"VCu"vq | | Hqt o cvkxg | | Uw o o cvkxg |
| uvwfgpvu"vjcv"pggf"kv"kp""GuvtgnnkvclGurgtcp clNwpkvclGuecngtc1"NgzkclPgwjcwu"ykvj"c"hqewu"kp"qwt"dknkpiwcn"cpf"urgekcn gfwecvkqp"uvwfgpvu0 | Pqx | Lcp | Oct | Lwpg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | " | " | " | " |
| Fcvg*u+"1"Vk o ghtc o g< Vjg"hkhvj" y ggm"qh"gcej "ukz" y ggm"rgtkqf0 | | | | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Cf o kpkuvtcvkxg"vgc o | | | | |
| \mathbf{Fg} nk \mathbf{xgt} {" \mathbf{Og} v \mathbf{jqf} < Kp"rgtuqp | | | | |
| Hwpfkpi"Uqwtegu< "/"Vkvng"K"*433+"/"433/33/834;/26G/449/52/732/222222/45H32"/"&84.466 | | | | |

| Cevkqp"Uvgr"4"Fgvcknu | | Tgx | kg y u | |
|--|-------------|-------------|---------------|--------------|
| Cevkqp"Uvgr"4< Vkgt"4"cpf"Vkgt"5"kpuvtwevkqp" y knn"dg"fqew o gpvgf"kp"Dtcpejkpi"Okpfu"gcej "ukz"rgtkqf0 | | Hqt o cvkxg | | |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | Pqx | Lcp | Oct | Lwpg |
| Fcvg*u+"1"Vkoghtcog< Gcej"ukz"yggm"rgtkqf | " | " | " | 11 |
| Eqmcdqtcvkpi"Fgrctvogpvu< CfokpkuvtcvqtulEqcejlEqwpugnqt | | | | |
| Fgnkxgt{"Ogvjqf< Kp"rgtuqp | | | | |
| Cevkqp"Uvgr"5"Fgvcknu | | Tgx | k gy u | |
| Cevkqp"Uvgr"5< Rncp"cv"ngcuv"5"RNE" o ggvkp i u"gcej "ukz" y ggm" rgtkqf"vq" rtqeguu. "kpvgtpcnk g."cpf" o qfgn"vjg"nguuqp" fgnkxgt{ | Hqt o cvkxg | | | Uw o o cvkxg |
| y kv j "C o rnkh { "y kv j "c"hqewu"qp" fkhhgtgpvkcvkqp"hqt"qwt"Dknkp i wcn"cpf"Urgekcn"Gfwecvkqp"uvwfgpvu0 | Pqx | Lcp | Oct | Lwpg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | " | " | " | п |
| Fcvg*u+"1"Vkoghtcog< Cv"ngcuv"5"vkogu"rgt"ukz"yggmu0 | | | | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< EqcejlCfokpkuvtcvqtul"FClVgcejgtu | | | | |
| Eqmcdqtcvkpi"Fgrctv o gpvu< Nkvgtce{ | | | | |
| Fgnkxgt{"Ogvjqf< kp"rgtuqp | | | | |
| Hwpfkpi"Uqwtegu< Uwrrnkgu"/"DGC"*3;;"RKE"47+"/"3;;/33/85;;/223/449/47/535/222222"/"&3.962 | | | | |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | Fkueqr | ovkpwg | | · · |

Uejqqn"Rgthqt o cpeg"Qdlgevkxg"5 Rtqdng o "Uvcvg o gpvu<

Uvwfgpv"Ngctpkpi

 $\textbf{Rtqdng} \ \textbf{o} \ "\textbf{Uvcvg} \ \textbf{o} \ \textbf{gpv"} \ \textbf{8} \\ \forall \textbf{Ktuv"} \ \textbf{i} \ \textbf{tcfg"uvwfgpvu"} \ \textbf{y} \ \textbf{j} \ \textbf{q'vqqm"} \ \textbf{v} \ \textbf{j} \ \textbf{g'Gp} \ \textbf{i} \ \textbf{ku} \ \textbf{j'} \ \textbf{CR"} \ \textbf{I} \ \textbf{tq} \ \textbf{y} \ \textbf{j'} \ \textbf{Tgcfkpi"} \ \textbf{cuuguu} \ \textbf{o} \ \textbf{gpv"} \ \textbf{fgetgcugf"} \ \textbf{kp"} \ \textbf{v} \ \textbf{j} \ \textbf{gkt"} \ \textbf{rgthqt} \ \textbf{o} \ \textbf{copeg"} \ \textbf{htq} \ \textbf{o} \ \textbf{"37'} \ \textbf{"kp"} \ \textbf{DQ} \ \textbf{["vq"34'"kp"} \ \textbf{OQ} \ \textbf{["qh"rgtegpv"qhuvmfgpvu"} \ \textbf{y} \ \textbf{j} \ \textbf{q'} \ \textbf{o} \ \textbf{g'vq''hwnn} \ \textbf{"rncp"gpicikpi"nguuqpu"kp"} \ \textbf{Tgcfkpi"vq"} \ \textbf{o} \ \textbf{cm"uvwfgpvu"} \ \textbf{o} \ \textbf{ggv"vjg"} \ \textbf{fckn} \ \textbf{qdlgevkxg"cpf"vjg"hwpfcogpvcn"hqwt"ctg"rctv"qh"gxgt \ \textbf{guuqp0}}$

Rtqdng o "Uvcvg o gpv"9<7: ' "qh"6vj"itcfg"Gpinkuj"ngctpgtu" o gv"vjgkt"OCR" I tqyvj"Tgcfkpi"OQ["itqyvj="jqygxgt"54' " o gv"itcfg"ngxgn"gzrgevcvkqpu0 Tqqv"Ecwug< Uvwfgpvu"ctg"uvknn ecvejkpi"wr"ykvj"uqog" o kuugf"kpuvtwevkqp0

 $\textbf{Rtqdng o "Uvcvg o gpv":} \ Cougf"qp"OCR"\ I\ tqyvj"OQ\ [\ "fcvc."55'\ "qh"ugeqpf"itcfg"uvwfgpvu"\ o\ gv"vjgkt"rtqlgevgf"iqcn"kp"vjg"Gpinkuj"cuuguu\ o\ gpv"cpf"48' '\ "kp"vjg"Urcpkuj"cuuguu\ o\ gpv0}\\ \textbf{Tqqv"Ecwug} \ Cougf"kpvgtxgpvkqpu"\ y\ gtg"pqv"rtqxkfgf"vq"Vkgt"4"cpf"Vkgt"5"uvwfgpvu"fwg"vq"nk\ o\ kvgf"rncppkpi"vk\ o\ g"hqt"vjg"vgcejgtu0}$

Rtqdng o "Uvcvg o gpv"34<75 ' "qh"7vj"itcfg"uvwfgpvu"ctg" o ggvkpi "vjgkt"rtqlgevgf"itqyvj"kp"OCR"Itqyvj"Tgcfkpi="jqygxgt"53 ' "qh"7vj"itcfg"uvwfgpvu"ctg" o ggvkpi "vjg"TKV"itcfg"ngxgnpqtou0 Tqqv"Ecwug<Uvwfgpvu"ctg"uvknn"ecvejkpi "wr"ykvj"uqog" o kuugf"kpuvtwevkqp0

Fkuvtkev" I qcn"4< Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Ocvjgocvkeu"htqo"56' "vq"67' "d{"Cwiwuv42460

Uejqqn"Rgthqtocpeg"Qdlgevkxg"3< Kpetgcug"vjg"rgtegpvcig"qh"RM"uvwfgpvu" yjq"ueqtg"Qp"Vtcem"qp"Ekteng"Ocvj"htqo";: ' "vq";; ' ""d{"Oc{"42450"

Gxcnwcvkqp"Fcvc"Uqwtegu< RM"Ekteng"Cuuguu o gpv

Uvtcvgi{"3< Fgxgnqr"vjg"ecrcekv{"qh"RM/7"vgcejgtu"vq"korngogpv"HYKUF"Ocvj"Htcogyqtm"vjtqwij"vctigvgf"rtqhguukqpcn"fgxgnqrogpv"kp"etkvkecn"vjkpmkpi.rtqdngo"uqnxkpi"crrnkecvkqp"cpf"wug"qh"fkuvtkev"crrtqxgf"tguqwtegu"vq"oczkok|g"uvwfgpv"ngctpkpi"cpf"kpuvtwevkqp0

Uvtcvgi{)u"Gzrgevgf"Tguwnv1Korcev<D{"Lwpg"4245."RM"uvwfgpvu"yjq"ueqtg"Qp"Vtcem"qp"Ekteng"Ocvj"ykm"kpetgcug"d{"32 '0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cfokpkuvtevkqp"Vgco

Rtqdng o "Uvcvg o gpvu< Uvwfgpv"Ngctpkpi 35

| Cevkqp"Uvgr"3"Fgvcknu | | Tgx | kgyu | |
|---|--------|-------------|------|--------------|
| Cevkqp"Uvgr"3< 322 ' "qh"tgswktgf"vgcejgtuluvchh"gptqnn."cvvgpf"cpf"rtqitguu"vjtqwij"tgswktgf"hqwpfcvkqpcn"cpf"hqnnqy/wr | | Hqt o cvkxg | | Uw o o cvkxg |
| kqtkv{"rtqhguukqpcn"ngctpkpi"hqt"nkvgtce{"*Ocvj"Etgcvkxg"Ewttkewnwo+"d{"Pqxgodgt"52."4244"*hktuv"ugoguvgt+"cpf"Hgdtwct{ ."4245"*ugeqpf"ugoguvgt+0 | | Lcp | Oct | Lwpg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | " | " | " | " |
| Fcvg*u+"1"Vk o ghtc o g < D{"Pqxg o dgt"52."4244 | | | | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Gctn{"ngctpkpi"fgrctvogpv | | | | |
| Eqmcdqtcvkpi"Fgrctvogpvu< Gctn{"ngctpkpi | | | | |
| $\mathbf{Fgnkxgt}\{\mathbf{Ogvjqf} < \mathbf{kp/rgtuqp}\}$ | | | | |
| | | | | |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | Fkueqp | ovkpwg | | |

Uejqqn"Rgthqtocpeg"Qdlgevkxg"3 Rtqdngo"Uvcvgogpvu<

| Uvwfgpv"Ngctpkpi | |
|---|--|
| Rtqdng o "Uvcvg o gpv"35<;3 ' "qh"RM"uvwfgpvu"ctg"qp"vtcem"kp"vjg"OQ["cfokpkuvtcvkqp"qh"vjg"EKTENG"vguvkpi0 Tqqv"Ecwug< Vgcejgtu"rncp"gpicikpi"nguuqpu"ykvj"vjg"uvwfgpvu0 | |

Fkuvtkev" I qcn"4< Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Ocvjgocvkeu"htqo"56' "vq"67' "d{"Cwiwuv42460

Uejqqn"Rgthqtocpeg"Qdlgevkxg"4< Kpetgcug"vjg"rgtegpvcig"qh"Mkpfgt"uvwfgpvu"yjq"ueqtg"Qp"Vtcem"qp"Gpinkuj"VZ/MGC"Ocvj"htqo"63' "vq"73' ""d{"Oc{42450}

Kpetgcug""vjg"rgtegpvcig"qh"Geqpqokecm{"Fkucfxcpvcigf""uvwfgpvu"htqo"58 ' "vq"68 ' "d{"Oc{"42450}"

Gxcnwcvkqp"Fcvc"Uqwtegu< Mkpfgtictvgp"VZ/MGC"Cuuguu o gpv

Uvtcvgi {"3< Fgxgnqr"vjg"ecrcekv {"qh"RM/7"vgcejgtu"vq"korngogpv"HYKUF"Ocvj"Htcogyqtm"vjtqwij"vctigvgf"rtqhguukqpcn"fgxgnqrogpv"kp"etkvkecn"vjkpmkpi.
rtqdngo"uqnxkpi"crrnkecvkqp"cpf"wug"qh"fkuvtkev"crrtqxgf"tguqwtegu"vq"oczkok|g"uvwfgpv"ngctpkpi"cpf"kpuvtwevkqp0

Uvtcvgi {)u"Gzrgevgf"TguwnvlK o rcev < D{"Lwpg"4245.""Mkpfgtictvgp"uvwfgpvu" y jq"ueqtg"Qp"Vtcem"qp"VZ/MGC"cuuguu o gpvu" y kmn"kpetgcug"d{"cv"ngcuv"32 ' 0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cf okpkuvtcvkqp"Vgc o

Rtqdng o "Uvcvg o gpvu< Uvwfgpv"Ngctpkpi 36

| Cevkqp"Uvgr"3"Fgvcknu | | Tgxkgyu | | |
|---|--------|----------------|-----|------|
| Cevkqp"Uvgr"3< Rtqxkfg"vgcejgtu" y kvj "vk o g"pggfgf"vq"rncp"gpicikpi "nguuqpu"cpf"wug" o cpkrwncvkxgu"qp"c"fckn{"dcuku0 | | Hqt o cvkxg Uw | | |
| Kpvgpfgf"Cwfkgpeg< Mkpfgtictvgp"Vgcejgtu | Pqx | Lcp | Oct | Lwpg |
| Fevg*u+"1"Vkoghteog <fckn{< td=""><td>"</td><td>"</td><td>"</td><td>"</td></fckn{<> | " | " | " | " |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< vgcejgtuleqcej | | | | |
| Eqmedqtevkpi"Fgretvogpvu< ocvj | | | | |
| Fgnkxgt {"Ogvjqf< kp"rgtuqp | | | | |
| Hwpfkpi"Uqwtegu< CVH/"Rncppkpi"fc{u"/"Vkvng"K"*433+"/"433/33/8334/2RF/449/52/732/222222/45H32"/"&:.347 | | | | |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | Fkueqr | ovkpwg | | |

Uejqqn"Rgthqt o cpeg"Qdlgevkxg"4 Rtqdng o "Uvcvg o gpvu<

Uvwfgpv"Ngctpkpi

 $\textbf{Rtqdng o "Uvcvg o gpv" 36} < 68 \text{ ' "qh" uvw fgpvu "kp" Mkpfgtictvgp" ctg" qp" vtcem" qp" o cvj "MGC" OQ ["cuuguu o gpv0 \textbf{ Tqqv" Ecwug} < Uvw fgpv" cvvgpfcpeg" ku "nqy "kp" Mkpfgt" o cmkpi "uvw fgpvu" o kuu o cp{"ko rqtvcpv" eqpegrvu0}$

Fkuvtkev" I qcn"4< Kpetgcug"vjg"rgtegpvcig"qh"5tf"itcfg"uvwfgpvu" yjq"ueqtg"cv" oggvu"itcfg"ngxgn"qt"cdqxg"qp"UVCCT"Ocvjgocvkeu"htqo"56' "vq"67' "d{"Cwiwuv42460

 $\label{thm:condition} \textbf{Uejqqn"Rgthqtocpeg"Qdlgevkxg"5} < \texttt{Kpetgcug"vjg"rgtegpvcig"qh"Mkpfgtictvgp"/"Itcfg"7"uvwfgpvu"yjq"Oggv"qt"Gzeggf"rtqlgevgf"itqyvj"qp"OCR"Itqyvj"htqoo7; '"vq"8; '""d{"Oc{"42450""} }$

 $\label{lem:condition} \mbox{\tt Kpetgcug"vjg"rgtegpvcig"qh"Urgekcn"Gfwecvkqp"uvwfgpvu"htqo"6: ' "vq"75' "d{"Oc{"42450}} \mbox{\tt Conditions} \mbox{$

Gxcnwcvkqp"Fcvc"Uqwtegu< OCR" I tqyvj "Cuuguu o gpv

Uvtcvgi {"3< Kortqxg"Vkgt"3"Ocvj "kpuvtwevkqp"wukpi"Gwtgmc"Ocvj "vq"hqewu"qp"ocvj "hnwgpe {"cpf"eqpegrv"cvvckpogpv"d {"wvknk | kpi"HYKUF"RNE."Kpuvtwevkqpcn."Ocvj cpf"Nkvgtce {"Htcogyqtmu"vq"kpetgcug"cejkgxgogpv"cpf"ngctpkpi"qwveqogu"d {"fgxgnqrkpi"u {uvgou"vjcv"gzrnkekvn {"oqpkvqt."cflwuv."cpf"ejgem"hqt"wpfgtuvcpfkpi"cvc"tkiqtqwu"ngxgn"fwtkpi"vjg"kpuvtwevkqpcn"rtqeguu0

Rtqdng o "Uvcvg o gpvu< Uvwfgpv"Ngctpkpi 7

| Cevkqp"Uvgr"3"Fgvcknu | | Tgx | kgyu | |
|--|-----|-------------|----------------|--------------|
| Cevkqp"Uvgr"3< Rtqxkfg"vgcejgtu" y kvj "vjg"pggfgf"vk o g"vq"rncp"nguuqpu"wukpi "vjg"pgy "Gwtgmc" rtqitco "gcej "ukz" y ggm" rgtkqf0 | | Hqt o cvkxg | | |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | Pqx | Lcp | Oct | Lwpg |
| Fcvg*u+"1"Vk o ghtc o g< Gcej "ukz" y ggm" rgtkqf | " | " | " | " |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< vgcejgtuleqcej | | | | |
| Eqmcdqtcvkpi"Fgrctvogpvu <ocvj< td=""><td></td><td></td><td></td><td></td></ocvj<> | | | | |
| Fgnkxgt{"Ogvjqf< kp"rgtuqp | | | | |
| Hwpfkpi"Uqwtegu< Uwduvkvwvgu"/"Vkvng"K"*433+"/"433/33/8334/2RF/449/52/732/222222/45H32"/"&:.347 | | | | |
| Cevkqp"Uvgr"4"Fgvcknu | | Tgx | k g y u | |
| Cevkqp"Uvgr"4< Vkgt"4"cpf"Vkgt"5"kpuvtwevkqp" y km"dg"fqew o gpvgf"kp"Dtcpej kpi "Okpfu"gcej "ukz"rgtkqf0 | | Hqt o cvkxg | | Uw o o cvkxg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | Pqx | Lcp | Oct | Lwpg |
| Fcvg*u+"1"Vk o ghtc o g< Gcej "ukz" y ggm" rgtkq f | " | " | " | " |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Cfokpkuvtcvqtu1Eqcej1Eqwpugnqt | | | | |
| Eqmcdqtcvkpi"Fgrctv o gpvu< Ocvj | | | | |
| Fgnkxgt {"Ogvjqf< kp"rgtuqp | | | | |

| Cevkqp"Uvgr"5"Fgvcknu | | Tgx | kgyu | |
|--|--------|-------------|------|--------------|
| $\textbf{Cevkqp"Uvgr"5} < Rncp"cv"ngcuv"3"RNE"oggvkpi"gcej"ukz"yggm"rgtkqf"vq"rtqeguu."kpvgtpcnk g."cpf"oqfgn"vjg"nguuqp"fgnkxgt{"ykvjpropulation of the companies of the companies$ | | Hqt o cvkxg | | Uw o o cvkxg |
| Gwtgmc0 | Pqx | Lcp | Oct | Lwpg |
| Kpvgpfgf"Cwfkgpeg< Ocvj"Vgcejgtu Foresty """Vk o ght o g < C ""gogyy"?" k o g" g ct "vkg" v ogyy | " | " | " | " |
| Fcvg*u+"1"Vkoghtcog< Cv"ngcuv"3"vkog"rgt"ukz"yggmu Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< EqcejlCfokpkuvtcvqtulFClVgcejgtu | | | | |
| Equedqtevkpi "Fgretv o gpvu< Ocvj | | | | |
| Fgnkxgt{"Ogvjqf< kp"rgtuqp | | | | |
| | | | | |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | Fkueqp | ovkpwg | | |

Uejqqn"Rgthqt o cpeg"Qdlgevkxg"5 Rtqdng o "Uvcvg o gpvu<

Uvwfgpv"Ngctpkpi

Rtqdng o "Uvcvg o gpv"7 Dcugf"qp"OCR" I tqyvj"OQ["Ocvj"cuuguu o gpv."39' "qh"hktuv"i tcfg"uvwfgpvu"ctg"rgthqt o kpi "qp"i tcfg"ngxgn0 Tqqv"Ecwug Ugnh"eqpvckpgf"vgcejgtu"pggf" o qtg vk o g"vq"hwnn{"rncp"gpicikpi "nguuqpu"kp" o cvj"vq" o cmg"uwtg"cm"uvwfgpvu" o ggv"vjg"fckn{"qdlgevkxg0"



| Uejqqn"Rtqeguugu" ("Rtqitcou | |
|-------------------------------|--|
| Rtqdng o "Uvcvg o gpv"4 | |
| | |

Fkuvtkev" I qcn"5< Kpetgcug"vjg"rgtegpvcig"qh"uvwfgpvu"itcfwcvkpi"ykvj"c"EEOT"kpfkecvqt"htqo"65 ' "vq"6: | "d{"Lwpg"42460

Uejqqn"Rgthqtocpeg"Qdlgevkxg"4< Kpetgcug"vjg"rgtegpvcig"qh"5/7"itcfg"uvwfgpvu"ueqtkpi"cv"OGGVU"qt"cdqxg"qp"UVCCT"Ocvj"htqo"46' "vq"56' "d{"Oc{42450}

 $\label{lem:condition} \mbox{\tt Kpetgcug"vjg"rgtegpvcig"qh"Urgekcn"Gfwecvkqp"uvwfgpvu"htqo"3; '"vq"46' ""d{"Oc{"42450}} \mbox{\tt Conditions} \mbox{$

Gxcnwcvkqp"Fcvc"Uqwtegu< UVCCT

Uvtcvgi{)u"Gzrgevgf"TguwnvlKorcev<D{"Lwpg"4245."vjg"rgtegpvcig"qh"5tf/7vj"itcfg"uvwfgpvu"ueqtkpi"cv"Oggvu"qt"cdqxg"qp"UVCCT"Tgcfkpi"ykm"kpetgcug"d{"32'0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cf okpkuvtcvkqp"Vgc o

Rtqdng o "Uvcvg o gpvu< Uvwf gpv" Ngctpkpi 34

| Cevkqp"Uvgr"3"Fgvcknu | Tgxkg y u |
|---|-----------|
| Cevkqp"Uvgr"3< Fcvc"Cpcn{uv"yknn"oggv"ykvj"vgcejgtu"chvgt"fkuvtkev"cuuguuogpv"e{eng"vq"tgxkgy"fcvc"cpf"rncp"pgzv"uvgru0 | |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | |
| Fcvg*u+"1"Vk o ghtc o g< Cv"vjg"gpf"qh"gcej"vguvkpi"e{eng | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Fcvc"Cpcn{uv | |
| Fgnpv" " ng< | |
| | |

Fkuvtkev" I qcn"6 Gpuwtg"cm"uwwfgpvu"jcxg"ceeguu"vq"c"uchg."uwrrqtvkxg"cpf"ewnvwtcm{"tgurqpukxg"ngctpkpi"gpxktqpogpv0

Uejqqn"Rgthqtocpeg"Qdlgevkxg"3< Fgetgcug"vjg"pwodgt"cpf"rgtegpvcig"qh"uvwfgpvu"yjq"jcxg"gzeguukxg"cdugpegu"*3"qt"oqtg"eqwtugu"dgnqy";2 ' "cvvgpfcpeg+htqo"53 ' "vq"43 ' "d{"Oc{"42450}

Gxcnwcvkqp"Fcvc"Uqwtegu< HQEWU"Cvvgpfcpeg"Tgrqtvu

 $\textbf{Uvtcvgi} \textbf{\{}) \textbf{u} \textbf{``Gzrgevgf'''Tguwnv1K' orcev} \textbf{``D\{''Lwpg''4245.''vjg''rgtegpvcig''qh''uvwfgpvu'' yjq''ctg''ejtqpkecm\{''cdugpv'' yknn''fgetgcug''d\{''7'' ''cu'' ogcuwtgf''d\{''HQEWU''tgrqtvu0'' yhn'''fgetgcug''d'\}'' \textbf{``cu'' ogcuwtgf''d'''hQEWU''tgrqtvu0'' yhn'''fgetgcug''d''' \textbf{``cu'' ogcuwtgf''d'''hQEWU''tgrqtvu0'' yhn'''fgetgcug'''d''' \textbf{``cu'' ogcuwtgf''} \textbf{``cu'' ogcuwtgf'''} \textbf{``cu''' ogcuwtgf''' agental ogcumtgf''' agental ogcumtgf'' agental ogcumtgf''' agental ogcumtgf'' agental o$

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cf okpkuvtcvkxg"vgc o

Rtqdng o "Uvcvg o gpvu< Fg o qitcrjkeu 3."5."6

| Cevkqp"Uvgr"3"Fgvcknu | Tgxkg y u |
|---|-----------|
| Cevkqp"Uvgr"3< Cvvgpfcpeg" o cvvgtu"kphqt o cvkqp" y kmn"dg"ugpv" j q o g"vq"rctgpvu"cpf" y kmn"dg"fkuewuugf"cv"v j g" i tcfg"ngxgn kphqt o cvkqp" o ggvkp i u"qp"v j g"hktuv" y ggm"qh"ue j qqn0 Kpvgpfgf"Cwfkgpeg< Rctgpvu Fcvg*u+"1"Vk o ghtc o g< Cwi wuvlUgrvg o dgt | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"O | |

| Cevkqp"Uvgr"5"Fgvcknu | | Tgx | kgyu | |
|---|--------|-------------|------|--------------|
| Cevkqp"Uvgr"5< Vgcejgtu" y km"ugpf" y tkvg"vjtgg"pqvg"ectfu"hqewukpi"qp"cvvgpfcpeg."dgjcxkqt"cpf"cecfgokeu"gcej"vkog"vjg{ | | Hqt o cvkxg | | Uw o o cvkxg |
| cvvgpf"c"hcewnv{"oggvkpi0""Vjg"rquvectf"ykm"jcxg"fgvckngf"kphqtocvkqp"qp"jqy"vjg"uvwfgpv"gkvjgt"kortqxgf"cejkgxgf"qt cdugpv"uvwfgpv0 | Pqx | Lcp | Oct | Lwpg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtuluvwfgpvulrctgpvu Fcvg*u+"l"Vkoghtcog< Fwtkpi"hcewnv{"oggvkpiu Rtqxkfgt"l"Rtgugpvgt"l"Rgtuqp"Tgurqpukdng< Rtkpekrcnlugetgvct{ Fgnkxgt{"Ogvjqf< Kp"rgtuqp | 1 | ı | 11 | 11 |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | Fkueqp | ovkpwg | | |

Uejqqn"Rgthqt o cpeg"Qdlgevkxg"3 Rtqdng o "Uvcvg o gpvu<

Fgoqitcrjkeu

Rtqdng o "Uvcvg o gpv" 3< Htqo "Cwiwuv" 4243" vq" Hgdtwct { "4244" RM" uvwfgpv" cvvgpfcpeg" tcvg" ftqrrgf" htqo"; 3' "vq": 6' 0 Tqqv" Ecwug < Rctgpvu" ctg" pqv" y gnn" kphqtogf" qp" vjg" korqtvcpeg" qh RM" cu" c" dwknfkpi" dnqem" vq" vjg" tguv" qh" vjg" i tcfgu0

Rtqdng o "Uvcvg o gpv"5 (Htq o "5tf"ukz" y ggmu"vq"6vj "ukz" y ggmu."vjgtg" y cu"cp": ' "ftqr"kp"cvvgpfcpeg"htq o ";505 ' "vq":703 ' "ec o rwu" y kfg0 Tqqv"Ecwug (Oqtg"rctgpv"eqpxgtucvkqpu"pggf vq"qeewt"uq"rctgpvu"wpfgtuvcpf"vjg"eqppgevkqp"qh"cvvgpfcpeg"cpf"uvwfgpv"cejkgxg o gpv0

Rtqdng o "Uvcvg o gpv"6< Uvwfgpvu"kp"RM"cpf"Mkpfgtictvgp"jcxg"vjg"nqyguv"cvvgpfcpeg"tcvg"cxgtcikpi"dgvyggp":2/;2 ' "rgt"ukz"yggmu0 Tqqv"Ecwug< Rctgpvu"fq"pqv"wpfgtuvcpf"vjg korqtvcpeg"qh"gctn{"ejknfjqqf"gfwecvkqp0

Fkuvtkev" I qcn"6< Gpuwtg"cnn"uvwfgpvu" jcxg"ceeguu"vq"c"uchg."uwrrqtvkxg"cpf"ewnvwtcnn{"tgurqpukxg"ngctpkpi"gpxktqpogpv0

 $\label{lem:condition} \textbf{Uejqqn"Rgthqtocpeg"Qdlgevkxg"4} < Fgetgcug"vjg"qxgtcm"pwodgt"qh"fkuekrnkpg"tghgttcnu"d{"uejqqn"rgtuqppgn"htqo"5' "vq"4' ""d{"Oc{"42450}} \\ Fgetgcug"vjg"pwodgt"qh"fkuekrnkpg"tghgttcnu"d{"uejqqn"rgtuqppgn"hqt"Urgekcn"Gfwecvkqp"uvwfgpvu"htqo"7' "vq"5' ""d{"Oc{"42450}} \\$

Gxcnwcvkqp"Fcvc"Uqwtegu< HQEWU

Uvtcvgi {"3< 4+"Ewnvkxcvg"uchg."uwrrqtvkxg"cpf"gswkvcdng"ngctpkpi "gpxktqpogpvu" i tqwpfgf"kp"vjg"Ngctpgt"cpf"Ewnvwtg"Fguetkrvqtu"cu"fghkpgf"d{"vjg"HYKUFKpuvtwevkqpcn"Htcogyqtm

Uvtcvgi{)u"Gzrgevgf"Tguwnv1Korcev<Oqtg"uvwfgpvu"uvc{"kp"vjg"encuutqqo"vq"tgegkxg"kpuvtwevkqp0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cuukuvcpv"Rtkpekrcn

Rtqdng o "Uvcvg o gpvu< Rgtegrvkqpu 3."5."6

| Cevkqp"Uvgr"3"Fgvcknu | | Tgx | kgyu | |
|--|----------------|-------------|------|--------------|
| Cevkqp"Uvgr"3 < Vgcejgtu"ykm"dg"rtqxkfgf"ykvj"iwkfgnkpgu"qp"cfftguukpi"fkuekrnkpg"kuuwgu"kp"vjg"encuutqqo0 | | Hqt o cvkxg | | Uw o o cvkxg |
| Kpvgpfgf"Cwfkgpeg< Vgcejgtu | Pqx | Lcp | Oct | Lwpg |
| Fcvg*u+"1"Vk o ghtc o g< 3uv"ukz" y ggmu | " | " | " | " |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Cuukuvcpv"Rtkpekrcn | | | | |
| $\mathbf{Fgnkxgt}\{\mathbf{Ogvjqf}<\mathbf{Kp}^{r}\mathbf{rgtuqp}\}$ | | | | |
| | | | | |
| Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{ | F kueqp | ovkpwg | | |

Uejqqn"Rgthqt o cpeg"Qdlgevkxg"4 Rtqdng o "Uvcvg o gpvu<

Rgtegrvkqpu

 $\textbf{Rtqdng}\ o\ "Uvcvg\ o\ gpv"3$< Dcug\ f\ "qp"vjg"4243"Rcpqtc\ o\ c"uwtxg\{."56\ '\ "qh"uvwfgpvu"fkfp)v"hggn"vjcv"kh"vjg\{"i\ qv"wrugv"kp"encuu."vjg\{"y\ qwnf"dg"i\ kxgp"vjg"qr\ rqtvwpkv\{"vq"tgncz0\ \textbf{Tqqv"Ecwug}<Pqv"cm"vgcejgtu"jcxg"jcf"vjg"vtckpkpi"vq"k\ o\ rng\ o\ gpv"ecn\ o\ kpilugnh/tgiwncvkpi"uvtcvgikgu"kp"vjg"encuutqq\ o\ 0$

Rtqdng o "Uvcvg o gpv"5 Dcugf"qp"vjg"4243"Rcpqtcoc"uwtxg{."54 ' "qh"uvwfgpvu"vcnm"cdqwv"kfgcu"htqo"encuu"cv"jqog0 Tqqv"Ecwug Uvwfgpvu"fq"pqv"hkpf"nguuqpu"tgncvcdng"vq"ujctg"ykvjhcoknkgu"cv"jqog0

 $\textbf{Rtqdng o "Uvcvg o gpv"6} < \text{Dcug f"qp"vjg"} 4243 \text{"Rcpqtc o c"uwtxg} \{."62 \text{'"qh"vjg"uvwfgpvu"kp"} 5tf/7vj"\text{itcfg"dgnkgxgf"vjcv"kh"vjgkt"vgcejgt"cumu"} \\ \textbf{J q y "ctg"} \{qwA\$"vjcv"vjg"vgcejgt"yqwnf"tgcm\{ycpv"vq"mpqy"vjg"cpuygt0 \textbf{Tqqv"Ecwug} \\ \textbf{Vgcejgtu"ctg"qxgtyjgnogf"ykvj"vjg"yqtm"cv"vkogu"cpf"hqtigv"vjg"korqtvcpeg"qh"vjg"uqekcn"goqvkqpcn"pggfu"qh"vjg"uvwfgpvu0 \\ \textbf{Tqqv"Ecwug} < \text{Vgcejgtu"ctg"qxgtyjgnogf"ykvj"vjg"yqtm"cv"vkogu"cpf"hqtigv"vjg"korqtvcpeg"qh"vjg"uqekcn"goqvkqpcn"pggfu"qh"vjg"uvwfgpvu0 \\ \textbf{Tqqv"ecwug} < \text{Vgcejgtu"ctg"qxgtyjgnogf"ykvj"vjg"vkogu"cpf"hqtigv"vjg"korqtvcpeg"qh"vjg"uqekcn"goqvkqpcn"pggfu"qh"vjg"uvwfgpvu0 \\ \textbf{Tqqv"ecwug} < \text{Vgcejgtu"ctg"qxgtyjgnogf"ykvj"vjg"vkogu"ctg"qxgtyjgnogf"vkogu"ctg"qxgtygnogf"vkogu"ctg"qx$

52"qh"58

Fkuvtkev" I qcn"6< Gpuwtg"cnn"uvwfgpvu"jcxg"ceeguu"vq"c"uchg."uwrrqtvkxg"cpf"ewnvwtcnn{"tgurqpukxg"ngctpkpi"gpxktqpogpv0

Uejqqn"Rgthqtocpeg"Qdlgevkxg"5< Fgetgcug"vjg"pwodgt"qh"qwv/qh/uejqqn"uwurgpukqpu"hqt"Chtkecp"Cogtkecp"uvwfgpvu"qt"vjg"uvwfgpv"itqwr"vjcv"ku"oquvoctikpcnk|gf"qp"qwt"ecorwu"*igpfgt."tceg."rtqitco."qvjgt+"htqo"39"vq"32"d{"Oc{"42450}}

Gxcnwcvkqp"Fcvc"Uqwtegu< HQEWU

 $\label{thm:condition} \textbf{Uvtcvgi} \{ \text{"3< 4+$"Ewnvkxcvg"uchg."} \text{"$uwrrqtvkxg"cpf"gswkvcdng"ngctpkpi"gpxktqpogpvu"itqwpfgf"kp"vjg"Ngctpgt"cpf"Ewnvwtg"Fguetkrvqtu"cu"fghkpgf"d{"vjg"HYKUFKpuvtwevkqpcn"Htcogyqtm } \\ \text{$(\text{$1$})$} \text{$(\text{$1$

Uvtcvgi {)u"Gzrgevgf"TguwnvlK o rcev< Uvwfgpvu"ctg"kp"vjg"encuutqq o "vq"tgegkxg"kpuvtwevkqp"kpuvgcf"qh"dgkpi "ugpv"jq o g0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Cuukuvcpv"Rtkpekrcn

Rtqdng o "Uvcvg o gpvu< Uejqqn"Rtqeguugu" ("Rtqitc o u 3

| Cevkqp"Uvgr"3"Fgvcknu | Tgxkgyu |
|---|---------|
| Cevkqp"Uvgr"3< Vgcejgtu" yknn"dg"rtqxkfgf" ykvj" i wkfgnkpgu"qp"cfftguukpi "fkuekrnkpg"kuuwgu"kp"vjg"encuutqqo "cpf" yknn"ujctg ykvj"vjg"uvwfgpvu0 Kpvgpfgf"Cwfkgpeg< Vgcejgtuluvwfgpvu Fcvg*u+"1"Vkoghtcog< Hktuv"vyq" yggmu"qh"uejqqn Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Cuukuvcpv"Rtkpekrcn | |
| | |

Fkuvtkev" I qcn"6 Gpuwtg"cnn"uvwfgpvu"jcxg"ceeguu"vq"c"uchg."uwrrqtvkxg"cpf"ewnvwtcnn{"tgurqpukxg"ngctpkpi"gpxktqpogpv0

Uejqqn"Rgthqtocpeg"Qdlgevkxg"6< Kpetgcug"vjg"pwodgt"qh"uvwfgpv"cpf"rctgpv"gpicigogpv"cevkxkvkgu"fwtkpi"cpf"qwvukfg"qh"tgiwnct"uejqqn"jqwtu."cu"gxkfgpegfd{"rctvkekrcvkqp"kp"mg{"uvtcvgike"gxgpvu"cpf"rtqitcou"htqo"5"vq"32"d{"Oc{"42450}}

Gxcnwcvkqp"Fcvc"Uqwtegu< Gxgpv"cigpfcu"cpf"hn{gtu

Uvtcvgi{)u"Gzrgevgf"TguwnvlKorcev<Rctgpvu"dgeqog"oqtg"gpicigf"kp"vjgkt"ejknf)u"gfwecvkqp"cv"uejqqn"cpf"cv"jqog0

Uvchh"Tgurqpukdng"hqt"Oqpkvqtkpi< Rtkpekrcn

Vkvng"K<

603."604

Rtqdng o "Uvcvg o gpvu< Fg o qitcrjkeu 6"/"Rgtegrvkqpu 5

| Cevkqp"Uvgr"3"Fgvcknu | Tgxkgyu |
|---|---------|
| Cevkqp"Uvgr"3< Uejgfwng"c"rctgpv"eqhhgg"cpf"eqpxgtucvkqp"vq"kpenwfg"vqrkeu"uwej"cu"cvvgpfcpeg."cecfgoke"vguvkpi."726. Urgekcn"Gfwecvkqp"cpf"qvjgt"vqrkeu"rctgpvu"nkuv"qp"DQ["uwtxg{0} | |
| Kpvgpfgf"Cwfkgpeg< Rctgpvu | |
| Fcvg*u+"1"Vk o ghtc o g< Gcej "ukz" y ggm" rgtkqf | |
| Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< Eqwpugnqt1Cf okpkuvtcvqt | |
| \mathbf{Fg} nk \mathbf{xgt} {" \mathbf{Ogvjqf} < kp"rgtuqp | |
| Hwpfkpi"Uqwtegu< | |
| | |

| Rgtegrvkqpu | |
|-------------|--|
| | |
| | |

Ecorwu"Hwpfkpi"Uwooct{

| | | | | Vkvng"K"*4 | 33+ | | |
|------|-------------------|-----------|----------------|--------------------|-----------------------------|--|-------|
| Lach | Uejqqn Rathq g | Uvtcvgi { | Cevkan Uvgr | Townstegn Pgg fg f | Factlevan | Carry | Commi |
| 3 | 14 | 3 | 3 | CVH/O cvgtkcnu | of" o cygtkenu kqpen"wug | 133/33/85; ;/26G/ 52/732/225 3/45 1133 | **** |
| | 1/// | | | | | | |

| Fkuvtkev I qcn | Uejqqn Rgthqt o cpeg Odlgevkxg | Uvtcvgi { | |
|-------------------|--------------------------------------|-----------|--|

Rctgpv"Gpicig o gpv

Cffgpfwou