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
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Fkuvtkev" I qcn"5<"Kpetgcug"vjg"rgtegpvcig"qh"uvwfgpvu"itcfwcvkpi"ykvj"c"EEOT"kpfkecvqt"htqo"65' "vq"6:' "d{"Lwpg"42460	46
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Ecorwu"Hwpfkpi "Uwooct{	55
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Fgoqitcrjkeu"Uwooct{

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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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Uvwfgpv"Ngctpkpi"Uwooct{

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Uvwfgpv"Ngctpkpi"Uvtgpivju

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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

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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

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

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

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

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Uejqqn"Rtqeguugu" ("Rtqitcou"Uwooct{

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Tqqv"Ecwug"34< Uvwfgpvu"ctg"ncemkpi "eqrkpi "cpf"qvjgt"umknnu"pgeguuct{"vq"tgiwncvg"goqvkqpu"cpf"eqoowpkecvg"pggfu0
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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

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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

 $\textbf{Rtqdng o "Uvcvg o gpv"3:} < Dcug f"qp"vjg"4243"Rcpqtc o c"uwtxg\{."54 ' "qh"uvwfgpvu"vcnm"cdqwv"kfgcu"htq o "encuu"cv"jq o g0 lead o cumu tagaa tag$

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

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
- 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 16 HRG	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< 74 ' "qh"Mkpfgtictvgp"Gpinkuj "Ngctpgtu"pggf"uwrrqtv"kp"fgeqfkpi"ceeqtfkpi"vjg"vjg"VZ/MGC"Ycxg"4"tgrqtv0 Tqqv"Ecwug

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	Tgxkgyu			
Cevkqp"Uvgr"3< Vgcejgtu"yknn"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			Uw o 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 ggvkpiu"gcej "ukz" y ggm"rgtkqf"vq"rtqeguu."kpvgtpcnk g. "cpf" o qfgn"vjg"nguuqp"fgnkxgt{		Hqt o cvkxg Uv		
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

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

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Rtqdng o "Uvcvg o gpvu< Uvwfgpv"Ngctpkpi 35

Cevkqp"Uvgr"3"Fgvcknu	Tgxkg y u			
Cevkqp"Uvgr"3< 322 ' "qh"tgswktgf"vgcejgtuluvchh"gptqnn."cvvgpf"cpf"rtqitguu"vjtqwij"tgswktgf"hqwpfcvkqpcn"cpf"hqnnqy/wr	Hqt o cvkxg			Uw o o cvkxg
rtkqtkv{"rtqhguukqpcn"ngctpkpi"hqt"nkvgtce{"*Ocvj"Etgcvkxg"Ewttkewnwo+"d{"Pqxgodgt"52."4244"*hktuv"ugoguvgt+"cpf"Hgdtwct{ 4:."4245"*ugeqpf"ugoguvgt+0		Lcp	Oct	Lwpg
Kpvgpfgf"Cwfkgpeg< Vgcejgtu	"	"	"	"
Fcvg*u+"1"Vk o ghtc o g < D{"Pqxg o dgt"52."4244				
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$\mathbf{Fgnkxgt}\{\mathbf{Ogvjqf} < \mathbf{kp/rgtuqp}\}$				
Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{	Fkueqr	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

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

Uvwfgpv"Ngctpkpi

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

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

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

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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		Tgxkgyu			
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	"	"	"	"	
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Eqmcdqtcvkpi"Fgrctvogpvu <ocvj< td=""><td></td><td></td><td></td><td></td></ocvj<>					
Fgnkxgt{"Ogvjqf< kp"rgtuqp					
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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	"	"	"	"	
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Eqmcdqtcvkpi"Fgrctv o gpvu< Ocvj					
Fgnkxgt {"Ogvjqf< kp"rgtuqp					

Cevkqp"Uvgr"5"Fgvcknu	Tgxkgyu			
$\textbf{Cevkqp"Uvgr"5} < Rncp"cv"ngcuv"3"RNE"oggvkpi"gcej"ukz"yggm"rgtkqf"vq"rtqeguu."kpvgtpcnk g."cpf"oqfgn"vjg"nguuqp"fgnkxgt{"ykvjpropulation of the companies of the companies$	Hqt o cvkxg U			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	II .	"	"	"
Fcvg*u+"1"Vkoghtcog< Cv"ngcuv"3"vkog"rgt"ukz"yggmu Rtqxkfgt"1"Rtgugpvgt"1"Rgtuqp"Tgurqpukdng< EqcejlCfokpkuvtcvqtulFClVgcejgtu				
Equicodetevkpi "Fgretvogpvuk Ocvj				
Fgnkxgt{"Ogvjqf< kp"rgtuqp				
Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{	Fkuegr	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

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

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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<	

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

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

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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	
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Cevkqp"Uvgr"5"Fgvcknu		Tgx	kgyu		
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Pq"Rtqitguu Ceeqornkujgf EqpvkpwglOqfkh{	Fkueqp	ovkpwg			

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

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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

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

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	kg y u	
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{Fg} nk \mathbf{xgt} {" \mathbf{Ogvjqf} < Kp"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

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

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	Tgxkg y u
Cevkqp"Uvgr"3< Vgcejgtu" y knn"dg"rtqxkfgf" y kvj" i wkfgnkpgu"qp"cfftguukpi "fkuekrnkpg"kuuwgu"kp"vjg"encuutqqo "cpf" y knn"ujctg ykvj" vjg"uvwfgpvu0 Kpvgpfgf"Cwfkgpeg< Vgcejgtuluvwfgpvu Fcvg*u+"1"Vkoghtcog< Hktuv"vyq" y ggmu"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}}

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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 03 2	****
	1///						

Fkuvtkev I qcn	Uejqqn Rgthqt o cpeg Odlgevkxg	Uvtcvgi {	

Rctgpv"Gpicig o gpv

Cffgpfwou