

I gtv| o cp"3"

Qxgtctejkp i "Uvtwevwtg"

"

"

Hqt"vjg"C o gtkecp"Uwfkgu"Ugpkqt"Ug o kpct"*CO596+.K"tgugctejgf"cpf"ytqvg"c"vjguku"qp"ecvecnnkpi"cu"c"hqto"qh"ugzwcn"jctuu o gpv"vjcv"dqvj"go dqfkgu"cpf"rgtrgwvcvgu"igpf"fq o kpcvkqp"O{"ctiwo gpvu"ctg"itqwpfgf"kp"uejqnctn{"cpf"cpgefqvcn"gxkfgpeg."dcugf"qp"vjg"ecvecnnkpi"gzrgtakpegu"qh"cfqnguegpv"iktnu"cpf"tcp,"yq o gp"

"

"

Hqt"o {"C o gtkecp"Uwfkgu"j qpqtu"vjguku."K"fgxgnqrgf"o {"uejqnctn{"tgugctej/dcugf"rcrgt"kpvq"c"etgcvkxg"uqekcn/cevkqp"rtqlgev" .c"y gdukvg."qpnkpg"o qxg o gpv."cpf"ujqtv" hkn o ."gcej"ck o kp i "vq"go rqy gt"vjqu"uwdlgev"vq"ecvecnnmu"vq"tgurqpf" Fgvcknu"cdqww"vjku"rtqlgev" crrgct"kp"vjg"hkpcn"rcigu"qh"vjku"fqew o gpv"

I gtv| o cp"4"

Vcdng"qh"Eqpvgpvu"

Cempqyngfigogpvu í í í í í í í í í í í í í í í í í í 000 í í í í í í í í 005"

Cdutcev í í í í í í í í í í í í í í í í í í 000 í í í í í í í í 16"

C"Pqvg"qp"Rqukykpcnv{ í í í í í í í í í í í í í í í í 000 í í í í í í í í 8"

Kpvtqfwevkqp í í í í í í í í í í í í í í í í 000 í í í í í í í í 009"

C"Pqvg"qp"Vgtokpqnqi{ í í í í í í í í í í í í 00 í í í í í í í í 0032"

Vjg"Cuvgtkum"],_

I gpfgt"cu"c"Uqekcn"Eqpuvtwev"

Pqv"Qpn{"Yq op"

Hqwpfcvkqpcn"Htc o g y qtm< Fgeqpuvtwevkpi"Jkgctejkgu í í í í 00000 í í í í í í í 35"

I gpfgt"Fq okpcvkqp"cpf"vjg" I gpfgt"Jkgctej {"

Vjg"Uvcpcfctf"qh"Yq op"

I gpfgtkpi"vjg"Uvtggvu"

Uvtggv"Jctcuuopv< Cp"Grkfg oke"

Ogyjqfu í í í í í í í í í í í í í í í í 000 í í í í í í í 00 í 42"

Vq"Dg"Ecvecnngf"Dghqtg" [qwt"36vj"Dktvj fc{<"

Vjg"Ghhgev"qh"Uvtggv"Jctcuuopv< qp"Cfqnguegpv"Iktnu í í í í í í 0000 í í í í 00 í 046"

Tgxkg y"qh"Vtcpu,"Nkvgtcvwtg í í í í í í í í í í í í 0000 í í í í 00 í 54"

C"Jkuvqt{"Yckvki"vq"dg"Vqn"

Pco kpi"Ykvjqwv"Yqtfu< Jkuvqt{"Eqpvkpwgf"

ðVjg"Rctcfqzkecn"Fcwnkv{ "qh"Ecvecnnkpí<ö

Cdutcev"

"

Tgegpv"uwtgxg{ u"kpfkcv"vjc"; ; "rgtegpv"qh"yqogp"tgrqtv"gzrgtkgpegu"qh"uvtggv"jctcuuogpv= "qh"vjqug."96"rgtegpv"gzrgtkgpeg"kv"dghqtg"vjgkt"hqwtvggvj"dktvjfc{u0"Qhvgp"o kuepputwgf"cu"eqornkogpnu"qt"lqmgm."ecvecnnmu0"uwdugv"qh"uvtggv"jctcuuogpv0"ctg"igpgtcnn{"wpypcvgf"cpf"kpxcukxg0"Gxgt{"o Iqqf"o qtpkpi."Dgcwkhwn.ö"öUokng."Uyggv jgctv.ö"cpf"öYjcvøu"wr."Ugz{Aö"eqortqokugu"c"yqocp0"tkijv"vq"rtkxce{."kpfgrgpfgpeg."cpf"cwvqpq{o{0" Hqt"ocp{"vtcpu,"yqogp."cpf"yqogp"qh"eqnqt"kp"rctvkewnct."uvtggv"jctcuuogpv"ecp"ecwug"nqpi/vgt{o"cpf"uqogvkogu"nkhg/vjtgcvgpkpi"ghhgemu0"Vjg"rtgugpv"uvwf{"wprcemuvjg"wpkswg"eqpugswgpegu"qh"uvtggv"jctcuuogpv."ecvecnnkpi"urgekhkecm{."qp"vyq"pqp/o wwcnn{"gzenwukxg"itqwru"cfqnguegvp"iktnu"cpf"vtcpu,"yqogp0"Cu"iktnu"gpvgc"cfqnguegpeg."vjg{"igpgtcnn{"gpeqwpvg"ecvecnnkpi"cu"cp"öceegrvgfö"vqwejuvqpg"qh"öhgokpkpkv{0ö"Cu"vtcpu,"yqogp"wpfgtiq"vjgkt"qyp"vtcpukvkqp"vq"öyqocpjqqf.ö"vjg{"ecp"gzrgtkgpeg"ecvecnnkpi"kp"fkurctvg"yc{u0"Ecvecnnu"qhvgp"xcnkfcvg"vjgo"vjtqwij"örcuukpi.ö"dwv"cn0quv"cnyc{u"jw0knkcvg"vjgo"vjtqwij"vjg"qdlgevhkkekcvkqp"cpf"ugzwcnk|cvkqp"qh"vjgkt"dqfkgu0"Yjkng"vjgug"vyq"kgfpvkv{"itqwru"gpfwtg"ecvecnnkpi"kp"fkuvkpev"yc{u..vjgkt"gzrgtkgpegu"urgcm"vq"c"rgtrgywcvkqp"qh"igpfgt"jkgctej{"kp"vygp{/hktuv"egpvwt{"W0U0"uqekgv{0" Igpfgt"cpf"hgokpkuv"vjgqt{"ckf"kp"o{"enqug"tgcfkpi"qh"uvej"ewnwtcn"vgzvu"cu"rqrwnct"pgyu"ctvkengu."dnqi"rquvu."cpf" [qwVwdg"xfqgqu"vjcv"eqpvckp"ceeqwpvu"qh"jctcuuogpv0"K"cnuq"go"rnq{"c"etkvkech"fkueqwtug"cpf"u{o"rvqocvke"cpn{uku"vq"wpfgtuvcpf"jqu"ecvecnnkpi."cu"c"uqekcn"rtcevkeg."jcu"rgpgvctvgf"jkuvqt{"cpf"vtcpuegpf"vkog0"Uvtggv"jctcuuogpv"jcu"equv"yqogp"vjgkt"tkijvu"vq"rtkxce{."uchgv{."cpf"gxgp"vjgkt"nkxgu0"

"

"

I gtv| o cp"7"

Y g"cm"j cxg"vjg"tkijv"vq"dg"y jq"yg"ctg."y jgtgxgt"yg"ctg0"
Kvøu"vk o g"vq"vtcpuhqt o "vjg"ewnvwtg"vjcv"rgtrgvwcvgu"j ctcuu o gpv"cpf"xkqngpeg0

I gtv| o cp"8"

C"Pqvg"qp"RqukvkqpCnkv{"

"

Tghngevkpi"qp"cpf"cempqyngfi kpi"o {"qyp"kgfpvkvkgu"cpf"dkcugu"tgncvkxg"vq"vjku"tgugctej"ku"

Kpvtqfwevkqp"

"
 "Ecvecnnu"nkmg"vjgug"ctg"hct"vqq"hc o knkct"vq"y q o gp⁴"kp"hcev."tgegpv"uwtxg{ u"kp fkecyg"vj cv"; ;"
 rgtegpv"qh"y q o gp"tgrqtv"gzrgtkgpegu"qh"uvtggv"j ctcuu o gp⁰⁵"Ecvecmu"j cxg"dgeq o g"uq"kp i tckpgf"kp"
 vjg"fcn{ "gpeqwpvgtu"qh"j w o cp"dgkp i u"vj cv"y g"j cxg"dgeq o g"uvtcp i gn{ "kpwtgf"vq"vj gug"ougg o kp i n"
 o kpqtö"cpf"öj ct o nguuö"eq o o gpvu"Vjg"hcev"qh"vj g"o cwg"ku."ecvecnnki"ku"ugzwcm{ "xkqncvki"o
 J ctcuu o gpv"fqgu"pqv"j cxg"vq"dg"r j { ukecn"vq"kphnkev"j ct o "Y qtfu"ctg"rq y gthwn"cpf"ecp"dg"
 fguytwevkxg"vq"qpgöu"eqphkfgpeg"cpf"o gpvcn"j gcnvj"Ecvecnnu"etgcvg"itcxg"cpf"uq o gyk o gu"
 kttgxgtukdng"fc o c i g"Oqtgqxgt."uvtggv"j ctcuu o gpv"qeewtu"kp"rcuuksi."o cmkpi"kv"pgctn{ "ko rquukdng"
 hqt"xkevk o u"vq"kgpvhk{ "cpf"jqnf"vj gkt"j ctcuuugtu"ceeqwpvcdng"Vjku"etgcvgu"c"kekqwu"e{eng"kp"y j kej"
 ecvecnnu"ctg"kipqtf."j ctcuuugtu"ctg"tctgn{ "tgrtk o cpfgf."cpf"xkevk o u"ctg"o cfg"vq"hggn"rq y gtnuu"
 Qhvgp"o kueqpuvtwgf"d{ "egtvckp"itqwr"cu"eq o rnk o gpvu"qt"lqmg."ecvecnnu"ctg"igpgtcn{ "
 wpy cpvgf"cpf"kpxcukxg"Y j cv"ku"kv"nkmg"hqt"y q o gp"vq"hggn"cu"vj qwi j"vj gkt"dqfkgu"ctg"eqpuvcpvn{ "qp"
 fkurnc{ "hqt" o gpA"Y j cv"ku"kv"nkmg"vq"hggn"eqpuvcpvn{ "ugzwcnk|gf"cpf"qdlgevkhkgfA"Uvtggv"j ctcuu o gpv"
 chhgevu"vj g"yc{u"y q o gp"ectt{ "vj g o ug nz

I gtv| o cp":

pkijv="cpf"cu"c"eqnngig"htguj o cp." o cuwtdcvgf"vq"qp"c"etq y fgf"uwd y c{"ect0"Y jkng"uq o g"qh"vjgug"
gzco rangu"iq"dg{qpf"ecvecnnu."vjg{"egtvckpn{"urgcm"vq"vjg"yc{u"ogp"jqnf"rqygt"kp"vjg"rwdnke"
urjgtg0"Vjg"jwpftgfu"qh"dnqi"rquvu."dqwpfnguu"xkgfqu."cpf"ygenj"qh"uejqmctujkr"qp"vjku"uwdlgev"
cvvguv"vq"j qy "uvtqpin{"ecvecnnu"tguqpcvg"ykvj"qvjgt"yqogp0"K"ugg"vjg"gnk o kpcvkqp"qh"ecvecnnki"cu"c"
uqekcn"lwuvkeg"kuuwg0"Yqogp"ujqwnf"pqv"jcxg"vq"uvcpf"hqt"vjku"cdwug0"Vjg"dguv"qwveqog"qh"vjku"
uvwf{"yqwnf"dg"hqt"hwwtg"yqogp"cpf"iktnu"vq"ycnm"eqphkfgpvn{"qp"vjg"uvtggv0"Uvtggv"jctcuuo gpv"ku"
pqv"pqt o cn0"Ecvecnnu"ctg"pqv"eq o rnk o gpvu0"Yqogp"ujqwnf"pqv"jcxg"vq"jkfg"wpfgt"dc i i {"enqvjki"
qt"etquu"vjg"uvtggv"vq"cxqkf"rqvgpvkcn"jctcuugtu."pqt"ujqwnf"vjg{"nkxg"ukngpvn{"ykvj"vjg"
eqpugswgpegu"vjcv"jctcuuo gpv"rtgugpvu0"Yg"fgugtxg"vq"oqxg"htggn{"cpf"rctvkekrcvg"hwnn{"kp"vjg"
yqtnf."vq"gzkuv"eqohqtvcdn{"kp"qwt"qyp"umkp"tgictfnguu"qh"ugz."rtghgtgf"igpfgt"kgfgpvkv{."qt"

I gtv| o cp";"

c i ckpuv"vtcpu, "y q o gp"qh"eqnqt0"Qv j gt"kpvgtugevkpi "hqt ou"qh"qr rtguukqp" o wuv"dg"hce vq tg f"kp vq"
vj gug"cuuguu o gpvu"ukpeg"tceku o ."rqxgtv{ .cpf"ugz"y qtm"tg o ckp"y gki j v{ "xctkcdngu"kp"fgekr j gtpi"
vj g"vct i gvu"qh"uwej "xkqngpeg0" [gv"hg y"uej qnctu"j cxg"uwhhkekgpvn{ "j ki j nk i j vgf"vj gug"fkuvkpevkqpu"kp"
vj gkt"tgugctej0""
Kp"vj g"ncuv"khv ggp" { gctu."vj g"kpvgtpgv"j cu"o cpc i gf"vq"i gpgtcvg"kpetgcukpi "cwgpvkqp"vq"uvtggv"

I gtv| o cp"32"

Vjg"rtgugpv"uvwf{"rqukvkqpu"kfgpvkh{."o ckpn{"igpfgt."cu"eqpuvtwvgef"cpf"gzcevgf"d{"cp"
kpvtkcvg"y gd"qh"jkgctejkecn"u{uvgo u"cpf"eq o o wpkvkgu0" I gpfgt"fq o kpcvkqp."gzkuvkpi"ykjkp"qwt"
itgevgt"rcvtkctejcn"htco g y qtm."y qtmu"vq"gpuwtg"uvtggv"jctcuu o gpv"cu"pcvwtcn0"Vq"vjcv"gpf."ewnwvtcn"
o guucikpi"cpf"kpuvkvwkqpcn"uvtwevwtgu."kpenwfkp i"vjg"ngicn"u{uvgo."cecfgokc."cpf"vjg"
iqxgtp o gpv."jcxg"fgg o gf"ecvecnkpi"cu"wp y qtvj {"qh"cvvgpvkqp0"Pqv"qp n{"ku"vjgtg"c"uectekv{"qh"
uejqnctujkr"cpf"uqekcn"fkueqwtug"qp"vjg"vqrke."dwv"rqnkvkecn"cpf"ngicn"cevkqp"hkijvkpi"clickpuv"uvtggv"
jctcuu o gpv"ku"pgctn{"pqp/gzkuvgpv0"Eqpugswgpvn{."yqogp"jcxg"dgpp"ecuv"cu"uwdqtfkpcvg"cpf"vjgkt"
gzrgtkgpegu"qh"jctcuu o gpv."gxgp"??"y Ø"? "pc O

I gtv| o cp"33"

ujkhvgf"kp"vjg"ncuv"vy gpv{ " {gctu0"Vjgtghqtg."K" y cpv"vq"kpvtqfweg"cpf"enctkh{ "egtvckp"vgt o u"uq"vjcv"
tgcfgtu"y kmm"dgikp"ykvj"c"eq o o qp"xqecdwnct{0"Kp"cfflkvkqp."ugxgtn"i wkfki "rtkpekrngu"ctg"cv"y qtm"
kp"vjgug"rcigu."cu"gpwo gtcvgf"dglnqy0"

Kp"cmn"ecugu."vjg"y qtf"ōvtcpuō"y kmm"dg"hqmnq y gf"d{ "cp"cuvgtkum"],_09"Qpnkpg"NI DVS - "

õ o cngö"qt"õhg o cngö"Uqekgv{ "gzrgevu"vjcv"qpgøu"ikxgp"ugzwcn"kgf gpvkv{ "y kmn"cnk i p"y kj"qpgøu"ej qugp"
 igpfgt"kgf gpvkv{0"J q y gxgt."vjku"ku"pqv"cn y c{u"vjg"ecug0" "ku"c"eqpegrvwcn"ecvg i qt{ "*qhvgp"
 rgtegkxgf"cu" o cuewnkpg"qt"hg o kpkpg+"vjcv"ewnvwtg"cuetkdg"vq"c"xtkgy{ "qh"ektew o uvcpegu³³"Kv"ku"
 cwce j gf"vq"õrgqrng"*o cp"qt"y q o cp+. cevkqpu"qt"cvtkdwvgu*c" o cpn{ "i tkr."c"hg o kpkpg"y cnm+."
 rj{ukecn"qdlgevu"qt"rjgpq o gpc*Oqvjgt"Pcvwtg."Hcvjgt"Vko g+óóxktvwcnn{ "cp{vjkpi"ecp"dg"
 -igpfgtgfø"kp"c"ikxgp"uqekgv{0³⁴" I gpf"ku"pgkjgt"cp"kppcvg"pqt"uvckve" o gcpu"qh"kgf gpvkhkecvkqp"
 Tcvjgt."kv"ku"kphqt o gf" d{ "qpgøu"dqf{ ."gzrgtkppegu."cpf"uqekcn"tgncvkqpu j kru"cpf"ku"eqpfkqkqpgf" d{ "
 c igpvu"uvej"cu"ewnvwtcn" o guucikpi"cpf"qt icpk|gf"kpuvkvwvkqpu³⁵"Kv"ku"vjwu"hnwkf"cpf"ecp"hnwevwcvg"
 qp"gxgp"c"fc{ /vq/fc{ "dcuku³⁶"Vjg"vtcfkqpcn"wpf gtuvcpfkpi"qh"õ o cuewnkpgö"cpf"õhg o kpkpgö"cu"c"
 dkpct{ óoc"ejqkeg"qh"qpg"qt"vjg"qvjgtóojcu"dgpp"ejcngp i gf"cpf"fkutwrvf" d{ "vjg"xkukdknkv{ "qh"
 vjqug"y j q"kgf gpvkh{ "cu"ci gpf."rcp i gpf."igpfgt"pqp/eqphqt o kp i."igpfgt"pgwvtn."pqp/dkpct{ .
 igpfgt"hnwkf."igpfgt"swguvkqpkpi."pgwvtn."gve³⁷"Vjg"go dtceg"qh"igpfgtóod{ "uejqnctu"cpf"
 kpuvkvwvkqpu"kp"vjg"ncuv"hg y" fgecfguóócu"dg nqpi kpi"qp"cpf"urgevwo" o ctmu"kv"cu"uqekcn"eqpuvtwvkqp"
 "

Dgecwug"ecvecnngtu"igpgtcnn{ "vct i gv"y q o gp."vjku"rcrgt"pgeguuctn{ "egpvgtu"qp"vjgkt"
 gzrgtkppegu³⁸"Cv"vjg"uc o g"vk o g."j q y gxgt."K"ycpv"vq"cempqy ngf i g"cpf"xcnkfcvg"vjg"gzrgtkppegu"qh"
 pqp/dkpct{ "cpf" o cng/kgf gpvkh{kpi"rgqrng"vqq0"Y j kng"nguu"eq o o qp"cpf"uectegn{ "fqew o gpvgf."o gp"
 cnuq"gzrgtkppeg"vutggy"j ctcuu o gpv0"J q y gxgt."vjgkt"rqukvkqp"qh"r q y gt"kp"uqekgv{ "o cmgu"vjgug"
 ukwvcvkqpu"pqv"qp{ "nguu"htg swgpv."dvv"qhvgp"nguu"fcpi gtqwu"vqq0" Cf fkqkqpcn{ .cu"tgugctej"uw i i guvu."

³³Nq

I gtv | o cp"35"

pqp/dkpct{"cpf"igpfgt"pqp/eqphktokpi"kgpvh{kpi"kpfkxkfwcn"gpfwtg"ecvecnkpipi"kp"wpkswg"yc{u"
cpf."uqog"ecugu."oc{"ngcf"vq"ugxgtg"cpf"fkuvkpev"ogpvcn"cpf"rj{ukecn"uwhhgtpi0^36"Vjgug"

I gtv| o cp"36"

cu"c"y c{ "qh"rtgugtxkp i "vj cv"ko dcncpeg0" Hg o kpkuv"ue j qnctu"kp"vj g" hkgnf u"qh"uqekqnqi { "cp f"nc y "j gn r"
eg o gpv"vj g"vj gqtgvkecn"hqqvkp i u"pggf gf"vq"wpfgtuvcpf"jq y "vvtggv"j ctcuu o gpv"hwpevkqpu"rtgugpvn{0"
"
"

Kp"vtwvj."

"ku"pqv"cp"cfgswcvg"vgt o "vq"fguetkdg"qwt"u{uvgo"qh"igpfgt"

k o dcncpeg."cu"kv"wrjqnfu"vjg"igpfgt"dkpct{0"C o gtkecp"ngicn"uejqnct"Ecvjctkpg"OceMkppqp"

5wpfgtuvcpfu"vjg"pqvkqp"oqtg"kpenwukxgn{"cu"fqokpcpeg"vjgc

I gtv| o cp"38"

gzrgevcvkqp"ctqwpf"vjg"rgthqt o cpeg"qh"vjgug"vtckvu0"Vjg{"gzrnckp"vjcv"kv"ku"jw o cp"pcvwtg"vq"

o gp."y q o gp], _"uvgr"qvv"qh"tqng" d{ "uk o rn{ "gpvgtkpi"v j g"rwdnke"ur j gtg⁴⁵"Eqpugswgpvn{ ."o gp"
 ecvecm"cu"c"y c{ "v q"dtqc fecuv"v j cv"y q o gp"uj qwnf"i q"dcem"v q"y j gtg"v j g{ "dgnqpi" *k0g0."v j gkt"j q o gu+0
⁴⁶"Uvtggv"j ctcuu o gpv"v j gp."ugtxgu"cu"c"y c{ "v q"tg o kp f"y q o gp"qh"v j gkt"rnceg"kp"uqekgv{ "cpf"o ctmu"
 v j g"rwdnke"ctgpc"cu"o cng"urceg⁴⁷"Ecvecmngtu"kphqt o "y q o gp"v j cv"v j g{ "uj qwnf"gzkv"v j gkt"rtkxcyg"
 ur j gtgu"öcv"v j gkt"q y p"tkum."y kv j"v j g"hwnn"mpq y ngf i g"v j cv"cv"cp{ "vk o g"v j g{ "ecp"dg"rwdnken{ "
 j w o knkcvgf"qt":eq o rnko gpvgf0ö⁴⁸"Y j gvjgt"dqwpf"v q"v j g"mkve j gp"qt"uj c o g f"qp"v j g"uvtggv."y q o gp"
 ctg"kp"cmn"rncegu"cv"v j g"fkurqucn"qh"o gp0"

Cu"y q o gp"gpvg"v j g"rwdnke"ur j gtg."o gp"qhvgp"hggn"v j gkt"rq y gt"ku"v j tgcvgpgf0"Kpuvkpevwcn"
 ö J g{ ."Uy ggvkguo"cpf"ö Y j cvøu"wr."Ugzkguö"j gn r"v j g o "hggn"v j g{ "j cxg"tg i ckpgf"eqpvtqn0"Kp"v j gkt"
 uwvf{ "qh"j q y"uvtggv"j ctcuu o gpv"chhgevu"v j g"o gpvcn"j gcnyj"qh"eqmng i g"y q o gp."ue j qnctu"Octkc"
 Fgn I tgeq"cpf"lqjp"Ej tkuvgpugp."wprcem"v j ku"kfgc0"V j g{ "enck o "v j cv"o gp"hggn"eq o rgmng f"v q"o ctm"
 v j gkt"v gttkvqt{ "kp"rwdnke"cpf"wug"uvtggv"j ctcuu o gpv"cu"c"hqt o "qh"tgvcnkcvkqp"ci ckpuv"y q o gp="kp"v j ku"
 y c{ ."ecvecmnpki"öigpf g t k|gu"v j g"uvtggv⁴⁹"V j ku"wpgs wcn"fkuvtkdwvkqp"qh"rq y gt"kp"rwdnke"ecwugu"o gp"
 v q"cuugtv"v j gkt"fq o kpcpeg."y j kej"Dq y o cp"eqkpu"cu"v j g"ökphqt o cn"i j gwqk|cvkqp"qh"y q o gp0ö"cmn"
 Ecvecmnpki"uk ipcmu"pqv"qp{ "j q y"v j g{ "uj qwnf"cev"dw"y j gtg"cpf"y j gp"v j g{ "ctg"cmnq y gf"v q"fq"uq0"
 "

Y j kng"uvtggy"j ctcuu o gpv"ku"c"eqpugs w gpeg"qh"i gp fgt"fq o kpcvkqp."vj g"i gp fgtgf"rwdnke"
 ur j gtg."cpf"hg o kp kpg"uvgtgqv{ r gu."kv"ku"fkhhkewnv"vq"fg h kpg"dgecwug"qh"vj g"rgtuqpcn"pcvwtg"qh"vj g"
 gzrgtkgpeg0"Kp"hcev."Mgctn"r qkp vu"qvv"vj cv"vj g"pq"wpkxgtucn{ "wugf"pc o g"qt"vgt o ö"hqt"vj g"
 i gp fgt/dcugf"o kueqp f wev"vj cv"qeewtu"kp"rwdnke⁴;"Vj ku"öpc o gnguupguuö"o cmgu"uvtggy"j ctcuu o gpv"
 öeqpxgpkgpvn{ ö"ej cmngp i kpi"vq"swcpvkh{ ."wpf gtuvcpf."cpf"cpcn{ |g0"Y q o gp"ctg"qhvgp"cv"c"nqnu"hqt"
 y qt fu"y j gp"fg h kpkpi"vj gkt"gzrgtkgpegu."gurgekcm{ "qpgu"ej ctcevgtk|gf" d{ "ci i tguukqp"cpf"
 xkqngpeg0"
 "j cu"dgeq o g"qpg"qh"vj g"o qtg"htg swgpvn{ "wugf"vgt o u"kp"ue j qnctujkr" {gv"
 Mgctn"cuugtvu"vj cv"kv"ku"pqv"eq o o qp{ "wugf"kp"fcn{ "nkhg."cpf."uj g"cffu."ökv"ecppqv"dg"hqwpf"kp"vj g"
 fkewkqpct{ 0ö⁵²"Vj ku"ncem"qh"ncpiwcig"etgcvgu"itcxg"eqpugs w gpeg"hqt"y q o gp0" Hqt"vtcpu , "y q o gp"
 cpf"y q o gp"qh"eqnqt."vj g"cdugpeg"ecp"ngcf"vq"fcpi g t qwu."gxgp"hcvcn"eqpugs w gpeg"0""
 Fgrtkxg f"qh"rtqrgt"ncpiwcig."j qy"ctg"y q o gp"o gcpv"vq"hggn"xcnkfcvgfA"J qy"ctg"y g"
 o gcpv"vq"uvcpf"wr"hqt"qwtugnxguA"Y kvj qvv"y qt fu."gzrgtkgpegu"iq"wp tgeqtf gf"cpf"dgeq o g"
 vtkxkcnk|gf"kp"uqekcn"cpf"kpuvkvwv kqpcn"ugvwp kpi u0"Y kvj qvv"vgt o kpq nqi{ ."kv"ku"ko rquukdnq"vq"rtqrgtn{ "
 vtcem."eqwpv."cpf"fkueuu"gzrgtkgpegu0"Y q o gp"pgf"cp"guvcduku j gf"cpf"uj ctg f"ncpiwcig"kp"qtf g"
 vq"rtqvg ev"vj g o ug n xgu"htq o "o gp"cpf"vj g"kpuvkvwv kqpu"vj g{ "eqpvtq0"Dq y o cp"ecwv kqpu"vj cv"y j gp"
 uvtggy"j ctcuu o gpv"hcnu"vq"dg"ngicm{ "ecvgi qtk|gf."kv"dgeq o gu"vthknkpi"cpf"wpf gugtxkpi"qh"
 kpuvkvwv kqpcn"cvvgpvkqp0⁵³"Uj g"vj wu"gzrnkekvn{ "fg h kpgu"uvtggy"j ctcuu o gpv"cu"j cxkpi"ukz"ur gekhke"
 ej ctcevgtku vkeu<"
 *3+"vj g"vct i gvu"qh"uvtggy"j ctcuu o gpv"ctg"hg o cng=*4+"vj g"j ctcuu gtu"ctg"o cng=*5+"vj g"
 j ctcuu gtu"ctg"wpceswckpvgf"y kyj"vj gkt"vct i gvu=*6+"vj g"gpeqwpvgt"ku"hc eg"vq"hc eg=*7+"vj g"
 hqt w o"ku"c"rwdnke"qpg."uve j"cu"c"uvtggy."ukf g y cnm."dwu."dwu"uvckqp."vczk"qt"qy j gt"rnceg"vq"
 y j kej"vj g"rwdnke"i gpgtcm{ "j cu"ceeguu=dwv"*8+"vj g"eqpvgp"qh"vj g"urggej."kh"cp{ .ku"pqv"

⁴;"Mgctn."
."4970""⁵²"Mgctn."
."4970"⁵³"Dq y o cp."\$Uvtggy" J ctcuu o gpv."\$73;0"

I gtv| o cp"3;"

O {"tgugctej" o cmgu"engct" vj cv" igp fgt" fq o kpcvkqp." cpf" vvtggv" j ctcuu o gpvóoc" o cpkhguvckqp" qh" vj cv" vj gqt { óój cu" r gpgvtevgf" j kuvqt { "cpf" vtcpuegpfgf" vko g0" C" u { o rvq o cvke" cpcn { uku" c kfu" kp" wpfgtuvcpfkpi" vj ku" pqvkqp." cu" kv" eqpu kfgtu" j qy" c" vgvzv" u { o dqnk| gu" ewnvwtcn" cpf" j kuvqtkecn" gxgpvu" cpf" cpzkgvkgu0" Wpf gft" vj ku" o gvj qfqnq i kecn" ngpu." rcuv" o q o gpvu" dgeq o g" ewnvwtcn" o ctmgpu" vj cv" cnvwfg" vq" itgcvg" uqekcn" kuuwgu05;" Vjtqw i j qwv" j kuvqt { . xkqngpeg" c i ckpuv" y q o gp" j cu" o cpkhguvf" cu" c" u { o rvq o " qh" rcvtkctej { 0" J qy gxgt." o gp" ctg" pqv" cn y c { u" vj g" rgtrgvtcvqtu" qh" vj ku" xkqngpeg0" Vjtqw i j" ugg o kp i n { " ñhg o kpkuvö" vcevkeu." o cp { " hg o cn" i tqwru" j cxg" gzenwfgf" vtcpu, " eq o o wpkvkgu" htq o " vj gkt" y qtm." vj wu" ecuvkp i" vtcpu, " cevkxkuvu" cpf" hg o kpkuv" cevkxkuvu" cu" qr rgpgpvu0" U { o rvq o cvke" cpcn { uku." vj tqwi j" wpfgtuvcpfkpi" egtvckp" gxgpvu" cu" rtqfwewu" qh" vko g" cpf" rnceg." j gnru" wprcem" y j { " cpf" y j gp" vtcpu, " y q o gp" j cxg" dggp" o cfg" qwwukfgtu0""

J kuvqtkecn { . cu" c" tguwnv" qh" igp fgt" fgxkcpeg." y j kvg" eku y q o gp" j cxg" o gtigf" kp" cnkcppeg0" Vj g { " j cxg" gtcugf" vtcpu, " y q o gp" htq o " vj g" ñhg o kpkuvö" rkevwtg" gzenwfkpi" vj gkt" xqkegu" htq o " ñhg o kpkuvö" t j gvtqte." vj gkt" dqfkgu" htq o " ñhg o kpkuvö" cfxqece { . cpf" vj gkt" uvqtkgu" htq o " ñhg o kpkuvö" pcttcvqxgu0" Hqt" kpvcpeg." vtcpu, " y q o gp" y gtg" c i i tguukxgn { " fgdctgf" htq o " vj g" pqvqtkqwu" Okejkicp" Y q o { pøu" Owuke" Hguvkxcn" * O Y OH+0" Ukpeg" kvg" kpegrvkqp" kp" 3; 98. " vj g" hguvqkxcn" tghwugf" vq" rgt o kv" vtcpu, " y q o gp" htq o " gxgp" uvgr rkp i" qp" gxgpv" i tqwpfu. 62" urctmkpi" vj g" VGTH" * Vtcpu, /Gzenwukqpc { " Tcfkecn" Hg o kpkuo + " o qxg o gpv" vj cv" y qwnf" vtkemng" kp vq" vj g" tguv" qh" vj g" v y gpv { /hktuv" egpvwt { 0" Ocp {

"

Cu"iktnu"gpvgt"cfwnvjqqf."vjg{"gzrgtkpeg"cmn"mkpfu"qh"rj{ukecn"cpf"goqvkqpcn"ejcpigu0"
 Vjgug"rwdgtvcn"ujkhvu"ctg"mpqyyp"cu"cfqnguegpeg<"c"vkog"qh"jckt"itqyvj."dtc"ujqrkpi."cpf"rkorng"
 rqrkpi0"Kv"okijv"pqv"cnyc{u"dg"rngcucpv."dwv"kvou"qhvgp"ukipkhkecpv"cpf"uggp"cu"c"vqwejuvqpg"qh"
 ocvwtkv{0"C o qpi"vjg"ncvg/pki jv"vc o rqp"twpu"cpf"unggrqxgt"ejcvu."cfqnguegpv"iktnu"qhvgp"
 gzrgtkpeg"cp"cfffkvqpcn."ukpkvugt"ukip"qh"yqocpjqqf0"Vjgkt"dwffkp"dtgcuvu"cpf"itqykpi"dqfkgu"
 ocmg"vjg o"vctigvu"qh"ugzwcn"qdlgevhkhecvkqp"cpf"uqogvkogu"rwdnk"jwo knkcvkqp⁶³"Wphqtwwpcvgn{."
 v{rkecn"ukipu"qh"rwdgtv{"ctg"pqv"vjg"qpn{"ukipkhkgtu"qh"yqocpjqqf0"Tcvjgt."kv"ku"ecvecnnkpi"cpf"
 qvjgt"hqtou"qh"uvtggv"jctcuuo gpv"qhvgp"kpfkcvg"vq{"qwp i"iktnu"vjcv"vjg{"jcxg"qwwitqyp"ejknfjqqf0""
 Ecvecnnu"dqvj"kpfweg"cpf"kpjkdkv"ocvwtkv{0"C"4236"inqdcn"uwtxg{"qp"uvtggv"jctcuuo gpv"

I gtv| o cp"48"

ecvecnu"vjg{"tgegkxg0"Oqtgxgt."vjgkt"eqphkfpeg"ku"qhvgp"fkokpkujgf"d{"vjg"ugzwcnk|cvkqp"qh"vjgkt"
gxqnxkp i "dqfkgu""

Tcvjgt"vjcp"c"ycto"ygneqog"vq"cfwnvjqqf."cfqnguegpv"iktnu"ctg"ogv"ykvj"c"eqnf"itggvki."
qpg"htcwi jv"ykj"ugzkuo."ujcog."cpf"xkqncvkqp0"Ownvkrng"hgokpkuv"uejqnctu"eqttqdqtcvg"vjku"pqvkqp"
kp"vjgkt"qyp"tgugctej0"Ectqn"Dtqqmu" I ctpfgt"ecnnu"cvvgpwkqp"vq"vjg"fkhkewnv{"{qwp i"yqogp"owuv"
gpfwtg"kp"fgekrjgtkpi"yjgvjgt"c"tgocm"qh"uvtggv"jctcuuogpv"ku"c"eqornkogpv"qt"c"ecvecnm0"Qh

Cdqxg"cmn." y q o gp"fkueqxgt"htq o "c" { qwp i "c i g" v j cv" r j { ukecn"cvwtcevkxgpguu" y knn" r wv" v j g o "c j gc f" kp" nk hg ö⁶⁹" Tcvj gt" v j cp" c" egngdtcvkqp" qh" ö] y _q o gp öu" kpvgngev. "ugpug" qh" j w o qt. "]qt_ "cvjngykeku o . ö" v j g { " ctg" kpuvgcf" rtckugf" hqt" v j gkt" dgcwv{ . "qt" kp" Mgctnöu" y qtfu. "ö j qv]pguu_ ö⁶: "Ujg" g o r j cuk | gu" v j cv" ukpeg" y q o gp" ctg" qhvgp" öwpfgttgrtgugpvfö" kp" rquvkqpü" qh" cwwjqtkv{ . "iktnu" tgcejkpi" cfqnguegpeg" ctg" v cw i j v" v j cv" ödgkp i "dgcwvkhwn" cpf" ug z{ "ku" v j gkt" y c{ "vq" cejkxg" rqy gt" qxgt" o gp" cpf" rqy gt" kp" i gpgtcnö⁶; [gv" v j ku" etgcvgu" c" eq o r ngz" eqpvtc fkevkqp ö" Rj { ukecn"cvwtcevkxgpguu. "uq o gvk o gu" g o dq fkf g" v j tqwi j "rtqxqecvkxg" enqvjkpi. "ecp" cmuq" kpetgcug" c" iktnöu" ejcpegu" qh" ivvkipi" ecvecmngf0" Vjku" etgcvgu" c" ukwvcvkqp" kp" y j kej" iktnu" ctg" ugv" wr" vq" nqug ö" Hg o kpkuv" uej qnct" Octkn{ p" Ht{ g" eqkpu" v j ku" eqpegrv" cu" v j g" wdkswkqwu" öfqwdng/dkpf ö⁷²" Ujg" ctiwgu" v j cv" y q o gp" ctg" ecwi j v" kp" c" pgxgt/gpfkp i" fkng o o c" kp" y j kej" v j g { "ctg" qpn{ "i wctcpvvgf" rgpcnv{ 0" Y q o gp" ctg" gpeqwtcigf" vq" o ckpvckp" v j g" uvcpfctf" qh" y j cvöu" öcvwtcevkxgö" vq" cejkxg" rqy gt. "qhvgp" v j tqwi j " r j { ukecn" gztguukqp" *k0g0. " enqvjkpi. "j ckt. "cpf" o cmgwr+. "gxgp" cu" v j ku" uvcpfctf" o cmgu" v j g o "xwmpgtdng" vq" j ctcuu o gpv ö" Ecvecmnp i "ku" qhvgp" o kueqpuvtwgf" cu" v j g" örtkeg" { qw" rc{ ö" cu" c" y q o cp ö" E{ pyjkc" I tcpv" Dq y o cp" emcko u" v j cv" hqt" cp" cfqnguegpy" iktn. "ecvecmnp i "ku" qpg" qh" ö j gt" hktuv" nguuqpu" kp" y j cv" kv" o gcpu" vq" dg" c" ugzwcn" dgkp i ö⁷³" Ujg" fgenctgu" uvtggv" j ctcuu o gpv" cu" qpg" qh" v j g" ögctnkguv ö" cpf" o quv" fghkpkpi" o q o gpv u" dgjkpf" c" iktnöu" öfkug o r qy gt o gpv ö⁷⁴" Qpg" y c{ "qt" cpqvjgt. "kv" ugg o u. " y q o gp" y knn" ngctp" v j cv" v j g { "ctg" tgfwegf" vq" ugzwcn" rtqrgtv{ 0" Uvtggv" j ctcuu o gpv" qhvgp" uvcpfu" cu" v j g" hktuv" uvgr" kp" v j g" rtqeguu ö" Wphqtvwpcvgn{ . "hqt" o cp{ " y q o gp. "ecvecmnp i "dgeq o gu" cp" kpjgtgpv" vqwejuvqpg" qh" v j g" öhg o cng" gztguukqp" ö" kv" ecpc" xcinkfcvg" qpgöu" hg o kpkpkv{ "cpf" y q o cpjqqf. " y j knn" uk o wnvcpqgwun{ "

⁶⁹"Mgctn." "470"
^{6:}"Mgctn." 480"
^{6:}"Mgctn." "

⁷²"Octkn{ p" Ht{ g. "öQrrtguukqp. ö" kp" g f0 Cppg" Okpcu"
<sup>*Dgn o qp ö" Yc fuyqtvj. "4222+. "j wr öll y y öhknquqhk eku öwpc o ö o z l f queu 549 lhknqul Octkn{ p ' 42Ht{ g. ' 42Qrrtguukqp ö" r fh ö"
⁷³"Dq y o cp. "\$Uvtggv" J ctc</sup>

uk i pcnkpi "uwdqt fkpcvkqp0" Cdqxg"cmn." ykvj kp"vjg" hktuv" v y q" fgec fgu" qh" nkhg." iktnu" ngctp" v jcv" v j gkt"

ugzwcnkv{ "ku" v j gkt" fqy phcnm0"

Ecvecnnkpi "ku" c" jwo knkcvkpi "gzrgtkgpeg" hqt" cfqnguegpv" iktnu0" C" tgegpv" V ykvgt" vtgpf."

%hktuvj ctcuugf. "kpurktgf" yqo gp"cmn" qxgt" v jg" eqwpvt{ "vq" ujctg" v j gkt" gzrgtkgpegu0" E jkeciq/dcugf"

cevkxkuv"cpf" cwvjqqt. "Okmmk" Mgpf cmn. "eqwnf" pqv" jcxg" kocikpgf" v jg" vtgo gpfqwu" ko rcev" ujg" yqwnf"

jcxg"qp" v jg" kpvgtgv" y jgp. "qp" Oc{ "4.:." 4237. "ujg" v yggvgf<"0K" ycu" 32" { gctu" qnf" y jgp" K" ycu"

%hktuvj ctcuugf000 J qy" o cp{ "qh" wu" ygtg" ejknftgp" rtg{ gf" qp" d{ "cfwnvuA" Yg" vgpf" vq" htcog" uwtggy"

jctcuu o gpv" cu" uqo gjjkpi "cfwnvu" fgcn" ykvj. "dvw" c" nqv" qh" wu" ygtg" wpfgt" 34" y jgp" %hktuvj ctcuugf0ö⁷⁵"

Vjqwucpfu"qh" yqo gp" tgurqpf gf" cpf" kv" swkemn{ "dgecog" cr rctgpv" v jcv" c" o clqtkv{ "qh" v jgo" "

gpeqwpvgtgf" uwtggy" jctcuu o gpv" ygn" wpfgt" v jg" cig" qh" eqpugpv0" Oqtgqxgt. " o cp{ "qh" v jg" v yggvu"

ecvcnqigf" gzrgtkgpegu" v jcv" y gpv" dg{ qpf" xgtdcn" tg o ctmu0" C" pwodgt" qh" v jg o " fguetkdg" kpekgpnu"

kpxqn xkpi "rj { ukecn" cuucwnv. "kpenwfkpi "tcrg" cpf" o qnguvckqp0 V jg" hqnnqy kpi "gzc orngu" uvqqf" qwn<"

34"qp" c" tqcf" vkr0" 4" iw{ u" cv" c" icu" uvcvkqp" ecvecnmf. "itqrgf" v j gkt" rtkxcvgu" cpf" o cfg" dqqd"

eqo o gpnu0" I tcpf o c" icxg" v jg o " jgnm" %hktuvj ctcuugf0⁷⁶"

K" ycu" %hktuvj ctcuugf" cv" cig"; 0" Ycmmkpi "vq" v jg" uvqtg" hqt" ecpf{ "ylo{ "eqwukp0" Ogp" jqpmgf"

I gtv| o cp"53"

rqukp i "cu" rgg tu."vjg{ "rgthqt o gf" y qtug"kp" eq o rctkuqp"vq" vjqu g" y j q" jc f" pqv" gp fw tg f"
 ñqdlgevhk { kpi ö"cpf" ñugzwcñk | gf ö"uvctgu ö8:" Y j kng" vjku" qee wttg f" y kvj kp" vjg" eqphkpgu" qh" c" encuutqq o."
 cpf" pqv" rw dñken { qp" vjg" uvtggv. "kv" eqpetgvk | gu" vjg" pgicv kxg" ghhgev" qh" xgtdcn" cdwug" qp" iktnu" kp" qv j gt"
 y cñmu" qh" ñkhg ö" Uwe j" fc o c ig" qp" vjgkt" ru { ejgu" jcu" nctigt" k o rñkecvkqpu" hqt" y j cv" kv" o gcpu" vq" ce jkgxg"
 uweeguu" cu" c" y q o cp ö" Oqtgqxgt. " o qfgnkp i " igpf gt" fq o kpcvkqp" qp" vjg" uvtggv. { qwp i " dq{ u" o k i j v"
 k o c i kpg" vjcv" kp" qtf g t" vq" ce jkgxg" uweeguu. "vjg{ " o wuv" ugzwcnk | g" cpf" jwo knkcvg" { qwp i " y q o gp ö"
 Oquv" fcp i gtqwun { . vjgug" ugg o kp i n { " uwdvng" eq o o gpvu" cdqvw" iktnu" eqpvtkdwvg" vq" c" ewnwrtg" kp"
 y j kej" y q o gp öu" dqfkgu" ctg" ñwr" hqt" itcdööödqvj" ñkvgtcm { " cpf" hk i wtcvkxgn { ö" Y j gp" ecvecnnu" dgeq o g"
 pqt o cñk | gf" cpf" ceegrvgf. " dqwpcfctkgu" dgvy ggp" kp fkxkf wcnu" o c { " uvctv" vq" dnwt. " rwwkpi" iktnu" cv" tkum"
 qh" o qtg" ci i tguukxg" cevu" qh" cuucwnv ö" kp" hcev. " c" tgegpv" uvwf { " uj q y gf" vjcv" o qtg" vjcp" qpg" kp" hkxg" iktnu"
 dgvy ggp" vjg" ci gu" qh" hqwtviggp" cpf" gki j vggp" j cxg" dggp" ñmkuug f" qt" vqwe j gf" y kvj qwv" vjgkt" eqpugp ö" ö92"
 Vjg" rtqdñg o "ku" dnvcvcpv. " cpf" vjg" ghhgevu" ctg" cnct o kp i ö" Cu" iktnu" wpfgtiq" cfqñguegpeg" vjg{ " ctg"
 kpvtqfwegf" vq" c" itqy kpi" grkfg o ke" qh" uvtggv" jctcuu o gpv ö" Kh" y g" cñqy" ugzwcn" cpf" igpf gt/dcugf"

Vjg"jkuvqtkgu"qh"vtcpu , "kpfkxkfwcn"ctg"rgtvkpgpv"vq"vjg"ewttgpv"ouwrgt/pcttcvkxgo"qh"

fkuetk o kpcvkqp"ci ckpuv" o kpqtkv{ "itqwrul"DWy jgtg"ctg"vjgug"jkuvqtkgu"ytkvvgp"fqypA"Qpn{ "

tgegpvn{ "jcxg"vjg"pcttcvkxgu"qh"jq o qugzwcnkv{ "hqwpf"vjgkt"yc{ "qpvnq"vjg"ujgnxgu"cnqpiukfg"

jgvgtqugzwn"jkuvqtkgu"Vtcpn , "jkuvqt{ "ku"c"uvqt{ "yckvkpi"vq"dg"vqnf"gxgp"kp"423;0"Yjq"ykn

"

Cu"uej qnctu"wptcxgn"vtcpu , "jkuvqt{"cpf"vjg"vgt o kpqnqi {"vjcv"pgeguuctkn{"ceeq o rcpkgu"kv."c" jquv"qh"swguykqpu"go gti g"cdqww"jqy"vjku"pcttevkxg"ku"dqvj"nkdgtevkpi"cpf"gzenwukqpct{0"Ukpeg" vgt o kpqnqi {"tgn cvgf"vq"vtcpu i gpfgtku o "ku"qpn{"pqy"dgkpi"fgxgnqrgf."igpf"fgxkcpv"rgqrng"qh"vjg" rcuv"*cpf."kp"o cp{"yc{u."vjg"rtgugpv+"ygtg"hqteg f"vq"nkxg"vjgk"nkxgu"yvjquv"rtqrgt"ncpiwcig"vq" kfgpvkh{"vjg ougnxgu0" Fqgu"vjku"vjgp"gzenwfg"vjgo"htq o "vtcpu , "jkuvqt{A"Y jcv"cdqww"kpfkxkfwcn" yjq"cr rgctgf"vtcpu , "*htq o "qwt"ewttgpv"xcpcig"rqpvp+dvw"yqwnf"pqv"pgeguuctkn{"jcxg"kfgpvkhkf" cu"uvej A"Oqtgqxgt."yjq"cfxqecvgu"hqt"rtgugpv/fc{"kpfkxkfwcn"yjq" dggp"ikxgp"c"rtqrgt" pc o g{"gv"ejqqug"pqv"vq"cu etkdg"vq"kv" hqt" c" xctkgy{"qh"tgcuqpu."kpenwfkp i"vjg" hcev"vjcv"vjg"vgt o " vtcpi igpf gto"ku"qh"yjvg."okffng/encuu."Y guvgtp"qtkikp0"PC o gu"guvcndku j"ejctcevgt"cpf"kfgpvkv{." vjg{"etgcvg"gzrgevcv kqpu"cpf"jgnr"rgqrng"hggn"vjg{"dgnqpi0"Dvw"pc o kp i"ecp"cn uq"gzenwfg0"kv"ecp" fkxkfg"itqwru"qh"rgqrng"cpf"hw tvjgt"qwt"vgpfgpekgu"vq"ecvg i qtk|g0" Cu"rtgxkqwun{"ogpvkqpgf."vjg"vtcpu , "t gxqnvkq p"ycu"nctign{"kpkvkcvf" d{"vjg"vtcpuugzwcn" eq o o wpkv{"qh"vjg"ncvg"42vj"egpvwt{0"Rkqpggtkp i"ugzqnqi kuv"Fc xkf"Qnkxgt"Ecwnf ygn"kpvtqfwegf" vjg"vgt o "v tcpuugzwcn ö"vq"vjg"Gp i nku j"ncpiwcig"kp"3;6;0:2"Jg"ycu"cn uq"ycu"co qpi"vjg" hktuv"vq" tghwvg"vtcpuugzwcnkv{"cu"c"ru{ejkcvtk e"fk uqtf g"cpf"rtq rqu g"jqt o qpgu"cpf"uwtigt{"cu"c"ogcp u" hqt" vtcpuvkqp0"Jg"rwv" hqtvj"vjg"vgt o "v tcpuugzwcn ö"cu"c"yc{"vq"fk uvkpi wku j"vjqu g"yjq"fgukt g"öugz" ejcpigu ö"htq o "v tcpuuxguykvgu.ö"yjq"rj{ukecm{"go dqfkgf"vjg"qvjgt"ugz"vj t qwi j"enq vjkpi"cpf" cr rgctc peg{:3" Ceeqt fkpi"vq"Jctt{"Dgplc o kp."Ecwnf ygn"o gfk ecm"rctvpgt."vjg"fkhhgtgpeg"dgv y ggp" vjgug"vyq"itqwru"ycu"vjcv"ö-vtwg"vtcpuugzwcn]"hgnv_vjcv"vjg{" "vq"vjg"qvjgt"ugz."vjg{"

⁸⁰ Dgg o {p."öVtcpui gpf g"Jkuvqt{.ö"330"

^{:3} Dgg o {p."öVtcpui gpf g"Jkuvqt{.ö"330"

:9" Ogcpy jkng."cp"cf fkvkqpcn"ugxgp" {gctu"y qwnf"rcuu"dghqtg" o quv"o o clqt"cpf"tg i kqpcnö"N I D"

i tqwru"y qwnf"kf gpvkh{ cu"öngudkcp."ic{ ."dkugzwcn."cpf" "dcugf"qt i cpk|cvkqpu0::"Gxgp"

cu"y g"gpvg"vjg"4242u."y g"cy ckv"vjg"hwnn"go dtceg"qh"vtcpu , "kp fkxkf wcn"cu"gs wcn" " "

Vjg"uqekcn"ogfk"dqo"qh"vjg"vy gpv{/hktuv"egpvwt{"j cu"ugtxgf"cu"c"icvy c{"vq"qr gpki"wr"
fkcnq i wg"ctqwpf"igpf"gt"kf gpvkv{0"Vjcpmu"kp"nct i g"rctv"vq"vjg"kpvgtpgv."vjg"pqvkqp"qh"
vtcpu i gpfgtku o "cu"c"ogpvcn"fkutqf"gt"qt"c"dkpctku o "ku"dgkp i "fku o cpvngf0"Qpnkpg"tguqwtegu"ctg"cnuq"

V j g"cevwcn"qtk i kp"qh"v j g"cuvgtkum"ku"wpegtvckp="v j gtg"ku"pq"eqpugpuwu"qp"y j gp"cpf"y j gtg"kv"y cu"
 hktuv"cffgf0"J qy gxgt."kv"fqgu"ugg o "vq"j cxg"tqqvu"kp"eq o rwvgt"ncpiwcig<"ōV j g"cuvgtkum"cv"v j g"gpf"
 qh"v j g"y qtf"ku"mpqyp"cu"c"y kinfecf"kp"ugctej"nkpiq."c"vqqn" {qw"ecp"wug"vq"ugctej"hqt"c"dcvej"qh"
 y qtfu"v j cv"dgikp"v j g"uc o g"yc{0ō;5"Cu"c"tguwnv"qh"kvu"vgejpkecn"wucig."o cp{"cevkxkuvu"cfqrvgf"v j g"
 cuvgtkum"cu"c"yc{"vq"fgpqvg"igpfgt"kpewukxkv{0"Kh" {qw"y gtg"vq" I qqing"ugctej"ōvtcpu,ō" {qw"y qwnf"
 igv"c"rngxj qtc"qh"j kvu."y j kej"u{o dqnk|gu"v j g"xcuv"cttc{"qh"igpfgt"kgfpvkvkgu"ewttgpvn{"kp"wug0"
 Tgugctej"j cu"cnuq"hqwpf"v j cv"v j g"vgt o "j cu"vkgu"vq"v j g"swggt"eq o o wpkv{"qh"v j g"3; ; 2u=N IDVS -"
 cevkxkuvu"wugf"kv."o wej"nkmg"vqfc{."cu"cp"wo dtgnnc"vgt o 0;6"V j g"cuvgtkum"ku"c"wughwn"yc{"vq"ukipkh{"
 kpewukqp"qh"cnm"igpfgt"kgfpvkvkgu"y j kng"tghwukp i"vq"cuuqekcvg"v j g"cev"qh"vtpukvqpkp i."y j gvjgt"
 ogfkecn"qt"pqv."cu"v j g"qp{."swcnkhkecvkqp"hqt"dgkp i"vtpcpu,0"Kp"hcev."v j g"cuvgtkum"j gru"vq"ngcxg"c"
 ogfkecn"fkci pquku"cpf"v j g"rj{ukecn"dqf{."cv"y j cvgxgt"uvavig."qvv"qh"v j g"gs wcvkqp"gp vktgn{0"Kv"cn uq"
 cnq y u"hqt"igpfgt"kgfpvkv{."vq"dg" f{pc o ke."pqv"hkzgf"qt"kp"hkpcn"hqt o 0"V j g"vgt o "vtpcpu,"eq o r nkecvgu"
 c"j kuvqt{"qh"quvtcek|cvkqp."fgpkcn."cpf"gzewukqp0"Kv"y cu"qhhkekcn{."cffgf"vq"v j g"Qzhqtf"Gpi nkuj"
 Fkevkqpct{"kp"Crtn"423 :"cnqpi"y kj"qv j gt"vgt o u"nkmg"co dkugzwcn."cugzwcn."dk/igpfgt."cpf"
 j gygtquqekcn0;7"

Ncp iwcig"uwttqwpfkpi"igpfgt"kgfpvkv{."gxqnxgu"cu"qwt"wpfgtuvcpfkpiu"cdqww"
 vtpci igpfgtkuo"gzrcpf0" Gxgp"igpfgt"tgcuukip o gpv"uwtigt{"ku"pqy"eq o o qp{"tghgttgf"vq"cu"
 igpfgt"eqphktocvkqp"uwtigt{."go rj cuk|kp i"v j g"rqygt"qh"v j g"vtpcpu,"kp f j g"lifqygt" O _py

I gtv| o cp"5;"

I gtv| o cp"62"

vjquq"mknngf" ygtg"dncem"vtcpu , "yqogp0" Y jkng."vjg"gzcev"fgvcnku"qh"gc ej"ecug"ctg"wpkswg."qpg"hcev"
 tg o ckpu"engct<"hcvcn" xkqngpeg"fkurtqrqtvkqpcvgn{ "chhgevu"vtcpu , "yqogp"qh"eqnqt0³²⁶"
 Kpvgtugevkqpu"qh"tceg."encuu."igpfgt."ugzwcnkv{ ."dqf{ "v{ rg."nqecvkqp."tginkikqp."cdknkv{ "cu" ygnn"
 cu"ngicn"ceeguu"vq" i wpu"kp" vjg" Wpkvgf"Uvcvgu"eqpvkpwqwun{ "fgrtkxg"vtcpu , "yqogp"ceeguu"vq"dcuke"
 jwo cp"tkijvu0"Kpfkxkfwcnu"cpf"qticpk|cvkqpu"cnkmg"jcxg"itcrangf"ykvj"jqy"vq"fgcn"ykvj"vjg"
 wpcdcvki"fgcvj"tcvgu0"Kp"Ugrvgodgt"423; .vjg"Cogtkecp"Ogfkecn"Cuuqekcvkqp"*COC+fguetkdgf"
 vjku" xkqngpeg"cu"cp"ōgrkfgokeō" hqt"vjg"vtcpu , "eqo o wpkv{ 0³²⁷"Kp" c"tgegpy" "ctvkeng."
 Octkcj"Oqqtg"qh"vjg"Vtcpui gpfgt" Nc y"Egpvgt"tgeqwpvgf" c"4236" kpekgp"kp" y jkej"ujg"ycu"
 cvwcemg f"cpf" hqtegf"vq"lw o r"htqo" c"vjktf/uvqt{ "ykpfqy"vq"ucxg"jgt"nkhg0"Ujg"uc{ u<"ōK" ycpv"vq"nkxg"
 kp" c" y qtnf" y jgtg" y g" fqpov" jcxg"vq" y qtt{ "cdqwu" y cnmkpi"qvw"qh"qwt"htqpv"fqqu"cpf"dgkpi"mknngf"
 dgecwug"uq o gqpg"fqqu"wpfgtuvcpf" y jq" y g" ctg0ō³²⁸"Kp" vjg" chvgtocvj"qh"vjg"fgcvj"qh"jgt"htkgpf"
 Crtkn"Dqqmgt."Lc | o kpg" Fgc o qp"enck o gf"ujg" hgnku"vtcpu , "yqogp"jcxg" dgeq o g"ōcp" gpfcpi gtgf"
 urgekgu0ō³²⁹"Fgc o qp" Dgnnqv."cpf" Oqqtg"ctg"pqv"cnqpg"kp"gzrgtkgpeki"vjgug"hggnkpiu0"Xkqngpeg"
 cickpuv"vtcpu , "yqogp"ku" hct"vqq" eqo o qp"cpf"ecvecnkkpi"rgtrgwvcvgu"kv0"
 Ocp{ "vtcpu , "yqogp"jcxg"fguetkdgf"vjgk"htki jvgpkpi"gzrgtkgpegu"qh"ecvecnkkpi"kp"dnqi"
 rqvu."{qwwdg" xkfgqu."o c ic|kpg"ctvkengu."cpf"rqrwnct"pgyu"uqwtegu0" Tcejgn"Yknkco u"fgvcnku"
 gzrgtkgpegu"qh"uvtggy"jctcnu o gpv"kp"jgt"qpnkpg"dnqi" 0"Ujg"ytkvgu."ō]q_pg"qh"vjg"
 hggnkpiu"K"hgnv"ycu"hgct0"K"ycu"chtckf000vjcv"vjg" o cp"jcxkpi"enqemg f" o g."yqwnf"hggn"jku" o cuewnkpkv{ "

³²⁶"ōXkqngpeg" Cickpuv0ō³²⁷"Kipcekk"Vqttgu."Lguukec" Jqr rgt"cpf" L

I gtv | ocp"66"

j { rgt/cy ctgpguu"cu"c"öpgy "pqt o öö³³⁸"Vtcpu,"y q o gp"ctg"pqv"rgt o kvvgf"vq"y cnm"htggn{ "kp"rwdnke0"

V j g{ "ctg"cv"cmn"vk o gu"uwdlgev"vq"qdlgevkhkecvkqp"cpf"j w o knkcvkqp"gxgp"kh"v j qu g o qvkqpu"ctg"

hqnnq y gf" d{ "rctcfqzkecn"hggnkp i u"qh"xcnkfcvkqp0""

Y j kng"v j g"uwdlgev"q h"i gp fgt"f q o kpcv kqp"ku"tgc fkn{ "ceeguug f"kp"ewttgpv"ue j qnctujkr."kv"ku"pqv"

uq"gcu{"vq"vtceg"kv"htq o "c"vtcpu , "rgturgevkxg"0Gxgp"kp"423;."kv"ku"c"ejcmngpig"vq"hpkf"tgugctej"qp"

\tcpu,"yqogp"kp"rwdnke"urcegu0"Uejqnctu"Co {"Nwdkvqy."LcFgg"Ectcvjgtu."Ocwtc"Mgnn{"cpf"

Oktko "Cdgnuqp"qhhtg"uq o g"kpukijv"kp"vjgkt"4239"uvwf{ "qh"vtcpu, "kpfkxkfwcnu"pcxki cvkpi "Rqtvncpf."

I gtv| o cp"67"

tceku o ."cdngku o "cpf"encuuku o 0ö³⁴³"Vjgug"kpvgtuge\kp i "öku o uö" o cmg"cp{ "uqtv"qh"rwdnke" o qxg o gpv"
gzvtg o gn{ "ejc\ngpikpi."gxgp"vgttkh{kpi "hqt"vtpu , "y q o gp\Hqt"y q o gp."vq"dg"kp"rwdnke"ku"vq"dg"
eqpuvcpvn{ "j { rgt"cyctg"qh"\qwt"dqf{ "kp"urceg\0"

I gpfgt"jkgtctej{ "ku"cv"vjg"dx u"qh"vj\o "xkpfkpiu\0{"v"cf|wfkecvgu"yjq"ku"cmqygf" jgtg

cpf"yjcv"ctw o u"yqocp,"ycn"tg" o

I gtv| o cp"68"

Vjku"rcrgt"hwpevkqpu"hqt"og"cu"c"hqt o "qh"uqekcn"cevkxku o "D{ "fqew o gpvki"cpf"
kpvgttqicvki"vjg"gzrgtkgpegu"qh"ecvecnngf"yq o gp."vtcpu,"yq o gp"kp"rctvkewnct."K"jqrg"vq"jcxg"
ikxgp"rqy gt"vq"vjgk"uvqtkgu"cpf"cy cmgpgf"hwwtg"yq o gp"vq"vjg"rgtknqw"ghhgevu"qh"vutggv"
jctcuu o gp"Ecvecnnki"ku"qpnl{"qpg"u{o rvq o "kp"vjg"nct i gt"gpvgtrtkug"qh"igpf"gt"fq o kpcvkqp"Qpn{"
pqy"ctg"ncpiwcig"cpf"tguqwtegu"go gti kpi"vq"gpcev"ejcpig""

I gtv| o cp"69"

vjku"pcvkqpou"tcpui gpfgt"eqo o wpkv{ ."Vtw o r"ku"kvu"eqo o cpfgt"kp"ejkgh0ö³⁴⁷"kv"dgicp"qp"vjg"fc{ "qh"
jkv"kpcwiwtcvkqp"kp"lcpwct{"4239"y jgp"Vtw o røu"cf o kpkuvtcvkqp"ykrgrf"cnm"ogpvkqpu"qh"ñN IDVS

I gtv| o cp"6:"

qtkikpcn"ec o rckip."Vtwo r"cewwcm{"rngfigf"vq"rtqvgev"NI DVS - "ekvk|gpu0"J q y gxgt."y j cv"jg"fkf"

pq"rtq o kug"y cu"vq"rtqvgev"vj go "cickpuv"jku"q y p"xkqngpeg""

Kp"vjku"ugg o kp i{"gp fnguu"enk o cvg"qh"j cvg."kvou"pq"y qp fgt"vj cv"vtcpu,"rgqrng."cpf"vtcpu,"

y q o gp"qh"eqnqt"kp"rctvkewnct."ctg"dgeq o kp i"gtcug f"htq o "uqekgy{0"Vjg"pwo dgtu"qh"o wtf gtf"

vtcpu,"y q o gp"ctg"kpetgcukpi"d{"vjg"fc{0"Oqtgqxgt."vjg{"ctg"eqpukuvgpvn{"dcttg f"htq o "ohg o kpkuvö"

o qxgo gpvu."jkuvqtkecn"pcttcv kxgu."cpf"igpgtcl"rwdnke"fkueqwtug0"Kp"ewttgpv"rqnkvkecn"fgdcvgu"cdqwu"

y q o gp."kv"ku"eku y q o gpou"kuuwguóóuwej"cu"cdqtvkqp"tkijvu"cpf"o cvgtpkv{"ngcxgóó"vj cv"ctg"v{rkecn{"

cv"vjg"hqtghtqpv"qh"fkuewuukqp0"Vjku"qpn{"tgkhkgu"vtcpu,"y q o gp"cu"qwwukfgtu"d{"ngcxkpi"vj gkt"

rctvkewnct"eqpegtptu"qvw"qh"vjg"swguvkqp0"Ocp{"Cogtkecpu"hcnn"vq"ugg"j q y"vj gug"cmngicvkqpu."

pwo gtqwu"ugzku"tg o ctmu."cpf"kpetgcug f"xkqngpeg"fkuswcnkh{"Vtwo r"cu"c"rqnkvkecn"cwvj qtkv{0"Uvknn"

vq"vjku"fc{."y q o gpou"tkijvu"ctg"pqv"ikxgp"vjg"cvvgpv kqp"vjg{"fgugtxg"cpf"ctg"tctgn{"kpenwukxg"qh"cmn"

y q o gpou"pggf u0"Vjg"crcv j {"qh" W0U0"ekvk|gpu"ku"c"rtqdng o = "kv"j cu"ukngpegf"y q o gp"cpf"ngf"vq"

fcp igtqw u."gxgp"hcvcn."qww eq o gu0"

Kv"ku"vk o g"hqt"y q o gp"vq"j cxg"c"uc{"kp"y j q"j cu"rq y gt"qxgt"vj gkt"dq fkgu."ej qkegu."cpf"

tkijvu0" I gp fgt"fq o kpcv kqp"gzkuvu"htq o "vjg"uvtggv"vq"vjg"qxcn"qhhkeg."o cmkpi"vjku"tgugctej"

kpetgcukpi{"rgtvkpgpv0"Vjgug"y q o gpou"uvqtkgu"qh"j ctcuu o gpv"pggf"vq"dg"ujctgf"pqy"o qtg"vj cp"

gxgt"vq"urtgcf"cy ctgpguu0"Vjg"o qtg"jkffgp"y q o gpou"uvqtkgu"ctg."vjg"nqpi gt"kv"y knn"vcmg"vq"gpcev"

uqekcn"cpf"rqnkvkecn"ejcp igt0"Vjku"rcrgt"ecnnu"cvvgpv kqp"vq"vjg"fgngvgtkqwu"eqpugswgpegu"qh"ecvecnnu"

cu"c"uvctvki"rpkp v"hqt"ecnnkpi"qww"ugzku o ."tceku o ."cpf"vtcpurj qdkc"qp"qwt"uvtggv u0"Kv"rwujgu"wu"vq"

o qxg"dg{qpf"kpvgtrtgvkpi"ecvecnnu"cu"ōeq o rnk o gpvuō"qt"ōjct o nqgu"lqmg u0ō"Gxgp"y j gp"vcmgp"kp"

uvtkfg"qt"wpfgtuvqqf"cu"c"rqukvkxg"chhkt o cvkqp"qh"qpgou"igp fgt"gzrtguukqp."vjg{"ecp"ngcf"vq"fkf"

eqpugswgpegu0"Vjg"pggf"hqt"y q o gp"vq"ujctg"vj gkt"uvqtkgu"ku"itgcvgt"vj cp"gxgt0"Vjg"qpn{"yc{"vq"

fktgevn{ "vq" "vjg" "Ekv{ "Eqwpekn³⁵⁷" "Vjku" "cf fkvkqp" "o cmgu" "j ctcuugtu" "ceeqwpvcndl" "hqt" "ecvecnmp i" "tcvjgt" "vjcp" "vjg" "xkevk o u" "vjg o ugnxgu⁰" "Kp" "4236." "kv" "y cu" "pc o gf" "qpg" "qh" "EP P₀u" "vqr" "uchgv{ "crru" "cpf" "WUC" "Vqfc{ "øu" "ø6" "htgg" "crru" "vjcv" "eqwnf" "jgnr" "rtgxgpv" "ugzwcn" "cuucwnv^{ø358}" "Vjg" "crr" "ku" "qpg" "qh" "ocp{ "kpkvckxgu" "J qmcdcem#" "j cu" "etgcvgf" "kp" "vjg" "hki jv" "cickpuv" "uvtggy" "j ctcuu o gpv⁰" "Qvjgtu" "kpenwfg" "j ctcuu o gpv" "kpvgtxgpv kqp" "eqwtugu." "kpvgtcpv kqpcl" "tgugctej." "cpf" "gpicigo gpv" "y kvj" "gngengf" "qhhkekcn" "kp" "ugxgtn" "eqwpvtkgu" "ctqwpf" "vjg" "y qtnf⁰" "J qmcdcem#" "ku" "qpn{ "qpg" "gzco rmg" "qh" "cp" "qticpk" "cvkqp" "ckogf" "cv" "eq o rnkecvkpi" "c" "ewnwttg" "qh" "igpf" "fq o kpcvkqp⁰"

Kv"ku"etwekcn"vq"pqvg"vjcv"y jkng" J qmcdcem#"ku"cp"gzvtgo gn{ "go rqy gtpi" "tguqwteg" "hqt" "uqog" "y q o gp." "kv" "qhvgp" "pginge" "vjg" "fkuvkpev" "ycu" "kp" "y jkej" "vtcpu" , "y q o gp" "gzrgtkpeg" "uvtggy" "j ctcuu o gpv" "cpf" "vtcpurj qdkc⁰" "Y jgp" "qticpk" "cvkqp" "pginge" "uvej" "fkuvkpev kqp" . "vjg{ "tgkh{ "vjg" "fgxkcpv" "uvcpfkpi" "qh" "vjg" "øVø" "Cu" "nqp i" "cu" "yg" "vtgcv" "y q o gp" "ugrctcvgn{ "qp" "c" "dkpct{ "uecng" "*eku" "cpf" "vtcpu" , + "qwt" "cwg o rvu" "vq" "hki jv" "y kmn" "hckn⁰" "Wphqtwpcvgn{ ." "vjgtg" "ku" "ncem" "qh" "qticpk" "gf" "ejcpig" "hki jv kpi" "cickpuv" "vtcpu" , / "vctigvgf" "uvtggy" "j ctcuu o gpv⁰" "J qy gxgt." "ugxgtn" "qticpk" "cvkqp" . "dki" "cpf" "uo cmn" "fq" "uvcpf" "qww" "kp" "vjcv" "rctkewnt" "hki jv⁰" "Qpg" "y qtvj" "ogpvkqp kpi" "ku" "vjg" "Dncem" "Vtcp" "Vtcxgn" "Hwpf⁰" "Kp" "Lwpg" "423" ; . "Fgxkp" "Nqy g" "guvcdnkujgf" "cp" "kpkvckxg" "vjcv" "rtqxkfg" "vtcpu" , "y q o gp" "qh" "eqnqt" "y kvj" "hwpfu" "vq" "gpuwtg" "vjgk" "uchgv{ "fwtkpi" "vtcxgn⁰" "Vjgug" "hwpfu" "jgnr" "rtqxkfg" "xgjkeng" "vtcpurqtcv kqp" . "xkc" "tkfg" "ujctg" "ugtxkegu" "nkm" "N{ hv" "cpf" "Wdgt." "vq" "gnk o kpcvg" "vjg" "rqvgpvkcn" "hqt" "xgtdcn" "cpf" "rj{ "ukecn" "jcto" "y jkng" "y cmkpi" "qp" "vjg" "uvtggy⁰" "Ceeqtfkpi" "vq" "Nqy g" "vjg" "rtqlgev" "y cu" "dqtp" "cu" "c" "fktgev" "tgurqpu" "vq" "vjg" "kpeguucpv" "xkqngpeg" "cickpuv" "vtcpu" , "y q o gp" "qh" "eqnqt" "cetquu" "vjg" "eqwpvt{ "Vjgug" "hwpfu" "ewttgpvn{ "ugtxkeg" "y q o gp" "kp" "P ["cpf" "PL"

Fcnnceu0ö³⁵⁹"Ceeqt fkp i "vq"Nq y g."öpq"qpg"ku"htgg"wpvkn"dncem"vtcpu"y q o gp"ctg"htgg000ö³⁵:"Vj g"ghhqtuv"
qh"dqvj"qh"vj gug"qt i cpk| cvkqpu."y j kng"gzvtg o gn{"xcnwcdng."y kmm"pqv"rw"cp"gp f"vq"vj g"u{uvgoke"
vtcpur j qdkc."tcekuo . "cpf" o kuqi {p{"vj cv"rnc i wgu"qwt"eqwpvt{."dvv"vj g{"ctg"egtvckpn{"uvgru"kp"vj g"
tkij v"fkgevkqp⁰"

"

Ecvectnkp i "ku"c"uqekcn"lwuvkeg"kuuwg."cpf"vj ku"rcrgt"ugtxgu"cu"c"ecm"vq"cevkqp⁰"kp"vj g"öOg"
Vqqö"gtc."y kvj"vj g"pgeguuct{"hqewu"qp"ugzwcn"cuucwn."ecvectnkp i "oki j v"dg"tgng icvgf"vq"vj g"vtkxkcn⁰"
Dvv."ecvectnkp i ."cu"K"jcxg"fg o qpuvtcvf."ku"c"itcxg"kuuwg⁰"Hktuv."cfqnguegpv"iktnu"gzrgtkgpeg"
ecvectnkp i "cu"c"vqwej uvqpg"qh"y q o cpj qqf"cpf"nguuqp"qh"hg o kpkpky{⁰"Htq o "c" {qwp i "cig."vj g{"ctg"

kp"fkruqqpcpv" y c { u<"cv"vk o gu. "vjg{ "eqphqpv"ecvecnu"cu"rqukvxg=" { gv. "vjg{ "cnuq"eqpuuvgpvn{ "gxqmg" hgct."ujc o g."cpf"uq o gvk o gu"xkqngpeg0"Gxgp" y jgp"ecvecnu"chhkt o "qpgou"igpfgt"kgf gpvkv{ . "vjg{ "qhvgp" tguwnv"kp"hgcthwu."ci i tguukxg."gxgp"hcvcn"ektew o uvcpegu0"Oqtgqxgt." o cp{ "ceeqwpvu"jcxg"ocfg"engct" vjcv"vtcpu, "y q o gp"qh"eqnqt"gzrgtkgpeg"uvtggy"jctcuu o gpv"fkurtqrqtvkqpcnv{ "vq"y jkg"y q o gp0"Pqv" qpn{ "ctg"vjg{ "uk o rn{ "o qtg"uwuegrvkdng"vq"ecvecnu."dwv"vjg{ "gzrgtkgpeg"kv"v y qhqnf0"Vjg" eq o dkpcvqkqp"qh"vjg"tceckn|cvkqp"cpf"ugzwcnk|cvkqp"qh"vjgk"dqfkgu"ngcfu"vq"ci i tguukxg"gxgp"o qtvn" qweq o gu0"Cdqxg"cmn."vjku"tgugctej"jcu"fg o qpuvtcvgf"jqy"ecvecnkp i"ku"tgictfgf"cu"c"rctv"qh"ovjg" rtkeg{qw"rc{ö"cu"c"y q o cp0"Ecvecnu"jcxg"dgpp"fgg o gf"öpcvwtcnö"cpf"kgpxkvcndng"curgev"qh"fcn{ "nkhg0"

Qp"vjg"o quv"dcuke"qh"ngxgnu."fqew o gpv kpi"vjg"vtgcv o gpv"qh"y q o gp"qp"vjg"uvtggy"tgxgnu" owej"qh"j qy"uqekgv{ "vtgcvu"y q o gp"gnug y jgtg0"Vjg"hkijv"ci ckpuv"uvtggy"jctcuu o gpv"ku"lwuv" dgikppkpi"ykvj"vjg"cf xgpv"cpf"uwuvckpcdknkv{ "qh"vjg%"OgVqq"o qxg o gpv0"K"jqrg"vjcv"vjgug"rcigu" eqpvtkdwyg"vq"vjg"nctigt"pcttcv kxg"qh"go r qy gtp i"y q o gp"vq"eq o o wpkecvg"vjgk"gzrgtkgpeg"kp"vjg" jqrg"vjcv."ykvj"vk o g"cpf"cy ctgpguu."y g"y kmn"dg"cdng"vq"ycmn"htggm{0"Kp"cpqvjgt"hkxg" {gctu."K"jqrg"c" fkhhtgpy"eqmng i"uvwfgpv"ykmn"yt kvg"vjgk"qyp"xtukqp"qh"vjku"rcrgt"cpf"kp"cpqvjgt"hkxg" {gctu"chvgt" vjcv"uq o gqpg"gnug"ykmn"vqq="ykvj"gcej"gf kqkqp."c"yku j"hqt"fgtgcukp i"pwo dgtu"cpf"edcvkpi" uvcvku vkeu0"Vjgug"rcigu"ctg"pqv"cp"gpf"kp"vjg o ugnxgu"dwv"c"y c{ "qh"qrgpkpi"wr"vjg"fkcnq iwg"ctqwpf" uvtggy"jctcuu o gpv"cpf"j qy"kv"eqpuuvgpvn{ "chhgev"vjg"nkxgu"qh"cmn"y q o gp0" Pq"ocvngt"y j q"qt"j qy" vjg{ "vctigv."ecvecnu"ctg"pqv"eq o rnko gpvu."vjg{ "ctg"pqv"lqmgu."cpf"vjg{ "ctg"pqv"pqt o cn0"O{ "ecvecnu" ku"pqv{qwtu"cpf"ku"pqv"jgtu0" Tcvjgt"gcej"gzrgtkgpeg"qh"jctcuu o gpv"ku"kphqto gf" d{ "qwt"kgf gpvkvkgu0" Kv"vcmgu"vjg"ykmn"qh"vjg"oclqtkv{ "vq"gpuwtg"vjcv"y q o gp"ecp"y cmn"eqphkfgpvn{ "cv"cmn"vk o gu"cpf"qp" cp{ "uvtggy"vjg{ "ejqqug0"

I gtv| o cp"75"

"

"

"

I gtv| o cp"76"

Rctv"KK<" J qpqtu"Vjguku"*Urtkpi "Ugo guvgt+"

"

Vjg"hqmqykp i "rcigu"fguetkdg"vjg"kpegrvkqp"cpf"fgxgnqr o gpv"qh"o {"jqpqtu"vjguku."kpenwfkp i "vjg"
cr rnkcvkqp"qh"o {"tgugctej"kpvq"c"etgcvkg"rtqlgev<"



35 posters (illustrated by 15 different alumnae) were scattered across campus and around another 50 were published online. The posters are displayed in a grid-like fashion, with some overlapping.

Hkiwtg"3<"Rtq o qykqpcn"
Rquvgt"

I gtv| o cp"78"



Hkiwtg"4< Jqogrcig"



Submit your CatCall Response Video here!

Including your name, email address, and a short video message. Submission is not mandatory, but would be appreciated for educational purposes only.

Name

First Name Last Name

Add File

Browse Files

Submit

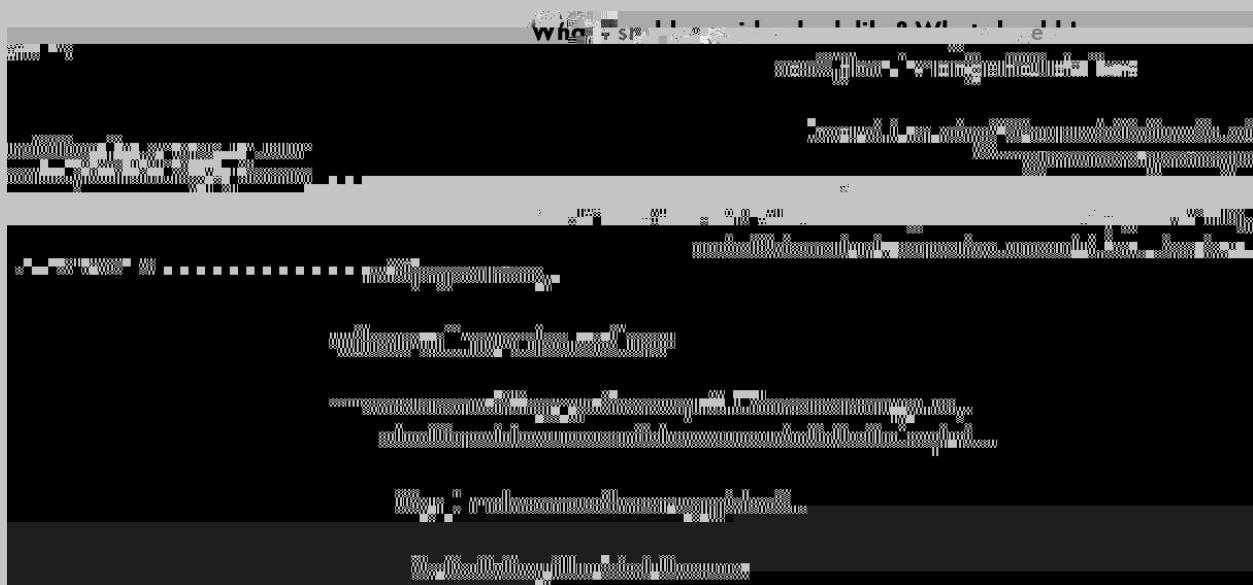
Cancel

Hkiwtg"5< Xkf gq"Uwd o kuukqp" Hqt o "

I gtv| o cp"79"

"
"
"

I gtv| o cp"7:"



Hkiwtg"7<"HCS"Rcig"

" "

I gtv| o cp"7;"



Hkiwtg"8<"Qv jgt"Qticpk|cvkqpu"Rc ig"

These six organizations fueled and
inspired much of my preliminary
research, including their own social media
platforms.

Hkiwtg"9<
Eqpvcev"
Hqt o "

Kp" Hgdtwct { "4242." K" jcf" vjg" rtkxkng i g" qh" cwgpfkpi "cpf" rtgugpvkp i "cv" vjg"
cv" Wpkqp" Eqmng i gl" O { "rquvg t" rtgugpvckqp" *ugg"
k o c i g" dg nq y + " dgec o g" c" ugg f dg f" hqt" eqpvgo rn cvkpi "jq y" vq" i cn xc pk | g" rgqrng" ctqwpf" vjg" kuuwg" qh"
ecvecnnkpi "cpf" vjg" eqphgtgpeg" ugtxgf" cu" c" dtkf i g" htq o "cec fg o ke" tgugctej" vq" vjg" ncwpej" qh" c" uqekcn"
cevkqp" rtqlgev0

I gtv| o cp"83"

Dkdnkqitcrj{

CENW0"õFgcfn{"Xkqngpeg"Cickpuv"Vtcpu"Rgqrng"ku"qp"vjg"Tkugõõ"Ncuv"oqfkkgf"Cwiwuv"43."423:."
jwru^{ll}y y y⁰cenw⁰qt i ldnq i ln idv/tki j vuletk o kpcn/lwuvkeg/tghqt o/nidv/rqrng/fgcfn{/xkqngpe
g/cickpuv/vtcpu3igpfgt/rqrng/tkug"
"

D0."Uco cpyjc"Vykvg"Rquv"Oc{"4:."42370"33<42"cl o 0"jwru^{ll}y kyvgt0eq o luc o cpvjcfcldluvcwu"
1825"
;65:79768625:62Atghaute?vyute '7Gvh y '9Ev yecor '7Gvyggvogdf '9Ev yvgto '7G8
25;65:79768625:62(tghawtn?jwru '5C '4H '4H0"
"

Dctpgw."Dtkcp"U."Ctkcpc"G"Pgudkv."cpf"Tpogg"O"Uqttgpvkpq"õVjg"Vtcpui gpfgt"Dcvjtqqo "Fgdccg"
cv"vjg"Kpvgtugevkqp"qh"Rqnkykeu."Ncy ."Gv jkeu."cpf"Uekgpegõ"

I gtv| o cp"85"

I gpfgt"Urgevtwo"ōWpfgtuvcpfkpi " I gpfgtō"Ceeguugf"Qevqdgt"42."423;ōjwru<ly y yōigpfgturg"
evtw oōqtiswkem/nkpmulwpfgtuvcpfkpi/igpfgtlo"

"
I ktn"Ueqwwuō"ōQpg"kp"Vgp" I ktnu"ku"Ecvecmngf"Dghqtg" J gt"33vj"Dktvj fc{ō"Ceeguugf"Qevqdgt"4::."
423;ōjwru<ly y yōiktnueqwwuōqt ilgpltckukpi/iktnuljcr{/cpf/jgcnj{jcr{luvqr/ecv"
ecnnkpi/iktnu/cpf/ugzwcn/jctcuuo gpvōjv o nō"

"
I ktujkem."Nqtk"Dō"

I gtv| o cp"86"

"
Mgctn." J qnn{ 0"
Ucpvc"Dctdctc."EC<"Rtcgigt."42320"
"

"
Mgg."Ectqnlkpg0"ō57"Rgqrng"Y jq"Vtcpulkqpgf"qp"J qy "Kv"Ko rcevgf"Vjgkt"Ogpvcn"J gcnvjōö"
3

"
Pkgnuqp."Ncwtc"Dgvj0

"Rtkpegvqp."PL<"Rtkpegvqp" Wpkxgtukv{ "Rtguu."42260"

"
Tgn o cp."Gnk|c0"ōVjg"47"Yq o gp"Yjq"Jcxg"Ceeuwgf"Vtw o r"qh"Ugzwcn"Okueqp fwevōō"
"Qevqdgt";."423;0"jwru<ll y y y0dwukpguukpukfgt0eqo l y q o gp/ceewugf/vtw o r/ugzwc"
n/o kueqp fwev/nkuv/4239/340"

"
Tqlcu."Tkem."cpf"Xcpguuc"Uy cngu0"ō3 :"Vtcpui gpf gt" Mknkpi "Vjku" [gct" Tckug" Hgct" qh" cp"
"Grkfg o ke0ō" ."Ugrvg o dgt"49."423;0"jwru<ll y y y0p{vk o gu0eq o l"
423;l2;l49lwu"lvtcpui gpf gt/y q o gp/fgcvj u0jv o n0"

"
Ucpfc{."R0" T0"ōOcng" Fq o kpcpegōō"
" *4223+";365/;3690"

"
Ucp i j cpk."Tcf j kmc0"ōEcvecmnpki" Jcrrgpu"vq" o quv" Yq o gp"dgvy ggp"v j g" Cigu" qh" 33" cpf" 39ōō" Ncuv"
" o qfkhkgf" O c{ "4;."42370"jwru<ll y y y0vgngitcrj0eq0wml y q o gpl y q o gpu/nkhg1338598;91"
Ecvecmnpki/Yq o gp/ugzwcnn{ /jctcuugf/qp/v j g/uvtggv/htq o /rwdgtv{0jv o n0"

"
Uej knv."Mtkuvgp"cpf" Ncwtgn" Y guvdtqqm0"ōFqkpi" I gpfgt."Fqkpi" J gvgtpqt o cvkxkv{ < : I gpfgt"
" Pqt o cnu.ō" Vtcpui gpf gt" Rgqrng."cpf" v j g" Uqekcn" Ockpvgpcpeg"qh" J gvgtpqgzwcnkv{ 0ō"
" 45."pq0"6" *Cwiwuv."422;+";662/6860"

"
Uj ckpc0"V y kvvgt" Rquw0" O c{ "53."42370"3<52"r0 o 0"jwru<ll y kvvgt0eq o lfkq i gpgur jknquqluvvwu18272"
" 859;3843;::574Atghaute?vy ute '7Gvhy '9Ev yec o r '7Gvy ggv g o dgf '9Ev y vgt o '7G82
72859;3843;::574 (tghawtn?jwv r '5C '4H '4H0"

"
Uo {vj."Lceswkg0"ōVtcpuegpfkpi" Vtcfkqkpcn" I gpfgt" Dqwpfctkgu<"Fghkpki" I gpfgt" Tqngu" Vjtqwij"
" Rwdnke"cpf" Rtkxcvg" Urjgtgu0ō" "6" *422:+";49/560"

"
Uvgkpo gv|. "Mc v{0"ōVjg" Qzhqtf" Gpi nku j" Fkevkqpc{"Cffgf":Vtcpo,0ō" Jgtgōu" Yjcv" v j g" Ncdgn"
" Ocpo0ō" "Crtkn"5."423:0"jwru<ll y k0eq o l74339; ;ly jcv/fqgu/vtcpo/cuvgtkum/uvct/"
" o gcp"/fkevkqpc{10"

"
Uvqr"Uvtggv" Jctcuu o gpv0" Ceeguugf" Pqxg o dgt"42."423;0"jwru<ll y y y0uvqrutggv jctcuu o gpv0qt i0"

"
Uwnvcp"qh"Umkpectg0"V y kvvgt" Rquw0" O c{ "4;."42370";<56"c0 o 0"jwru<ll y kvvgt0eq o ldtqy pcpfdgmcluvcv"
" wu1825;39588234293;58Atghaute?vy ute '7Gvhy '9Ev yec o r '7Gvy ggv g o dgf '9Ev y vgt
o '7G825;39588234293;58 (tghawtn?jwv r '5C '4H '4H0"

"
Vjgo0ō Yjcv" Fqgu" v j g" Yqtf"ōVtcpui gpf gtō" OgcpoAō" Ncuv" o qfkhkgf" Ugrvg o dgt"9."423:0"jwru<ll y
" y y0v j g o 0wuluvqt{ lkpswggt{/vtcpui gpf gt0"

"
Xcngpvkpg."Fcxfkf0"
" Wpkxgtukv{ "Rtguu."42290"

I gtv| o cp"88"

"
Y cnuj."Lqjp0"33"Kpuwnvu"Vtw o r"jcu" J wtngf"cv"Y q o gp0ö" . "Qevqdgt"39."423:0"
jwru<1ly y y0dwukpguukpukfgt0eq o lvtw o ru/y qtuv/kpuwnvu/vqyctf/y q o gp/423:/320"
"

"
Y gkuu."Uw|cppc j0"öVjg"Pgy"J qmcdcem#"Crr"Ngvu" [qw"Trgrqtv"cpf"Ocr"Uvtggy" J ctcuu o gpv."
Dgecwug"vjg"Ujco g"ku"qp"vjg"Rgtrgvtcvqt."Pqv"vjg"Xkevk o ö" ."Ugrvg o dgt"33."42370"
jwru<1ly y y0dwuvg0eq o lctvkengul32; ;35/vjg/pgy/j qmcdcem/crr/ngvu/{qw/tgrqtv/cpf/o cr/"
uvtggy/j ctcuu o gpv/dgecwug/vjg/u jco g/ku/qp0"
"

"
Y knejkpu."Tkmk0"
42360"
"

"
Y knnko u."Tcejgn0"
0"Ncuv"o qfkkgf"Octej"7."42390"jwru<1lvcprjk nquqrjgt0"
y qtfrtguu0eq o l42391251271vjg/rctcfqzkecn/fwcnkv{/qh/ecv/ecnnkpi/cu/c/vtcpu/y q o cp10"
"

" "

Crrgpfkz"

"

Vjku"cr rgpfkz"ecvcnqiu"c"pwodgt"qh"kpkvckxgu"vjcv"hkijv"hqt"yqogpou"tkijvu"K"jcxg"

ugngevgf"vjg"itqwru"dglnqy"pqv"qp{"dcugf"qp"vjgkt"go rqy gtpi"okuukqpu."dvw"dgecwug"qh"vjgkt"

kpvgtugevkqpcn"cpf"ykfgurtgef"tgcej"Vqigvjgt."vjgug"qticpk|cvkqpu"godqf{"c"hwwtg"kp"yjkej"

yqogp."tgi ctfnguu"qh"vjgkt"ejqugp"qt"cuuki pgf"kgp vkvkgu."ykn"dg"cdng"vq"oqxg"htgg{"vj tqwij"vjg"

rwdnke"ctgpc"cpf"nkxg"eqphkfgpvn{"kp"vjgkt"gxgt{fc{"nkxgu"K"jcxg"kgp vkhkf"vjg"igqitcrjke"ueqrg"

qh"gcej"qh"vjgug"tguqwtegu"cpf"kpewfg"nkpmu"hqt"hwvijgt"kphqt o cvkqp"

"

Qticpk|cvkqpu"kpkvckxgu"hkijvki"Uvtggy"Jctcuu o gpv"

"

"/"Pgy" [qtm"Eky{"Ctgc."inqdcm"qwtgcej"/"jvru<ly y y\ecvecnnuqhp{e\eqo "

"/"FE"Ogvtqrqnkvcp"Ctgc"/"jvru<ly y y\eqmgevkxgcevkqfe\qt i"