Test 1 Question 1

Shuowen Wei

clc;clear

table='abcdefghijklmnopqrstuvwxyz';

fid=fopen('note.txt');

[a n]=fscanf(fid, '%c');

b=zeros(1,29);

c=zeros(1,length(a));

%letter=['a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','s','t','u','v','w','x','y','z'];

%d=zeros(1,length(a));

for i=1:n

%c(i)=find(table==a(i));

switch a(i)

case {'a'}%%%%%%%%%%%%%%%%%%%%%%%%%r

b(1)=b(1)+1;

case {'b'}

b(2)=b(2)+1;

case {'c'}

b(3)=b(3)+1;

case {'d'}

b(4)=b(4)+1;

case {'e'}

b(5)=b(5)+1;

case {'f'}

b(6)=b(6)+1;

case {'g'}

b(7)=b(7)+1;

case {'h'}

b(8)=(8)+1;

case {'i'}%%%%%%%%%%%%%%%%%%%%%%%%%%%n

b(9)=b(9)+1;

case {'j'}%%%%%%%%%%%%%%%%%%%%%%%%%%o

b(10)=b(10)+1;

case {'k'}

b(11)=b(11)+1;

case {'l'}

b(12)=b(12)+1;

case {'m'}

b(13)=b(13)+1;

case {'n'}

b(14)=b(14)+1;

case {'o'}

b(15)=b(15)+1;

case {'p'}

b(16)=b(16)+1;

case {'q'}%%%%%%%%%%%%%%%%%%%%%%i

b(17)=b(17)+1;

case {'r'}%%%%%%%%%%%%%%%%%%%%%%s

b(18)=b(18)+1;

case {'s'}

b(19)=b(19)+1;

case {'t'}

b(20)=b(20)+1;

case {'u'}

b(21)=b(21)+1;

case {'v'}

b(22)=b(22)+1;

case {'w'}

b(23)=b(23)+1;

case {'x'}

b(24)=b(24)+1;

case {'y'}

b(25)=b(25)+1;

case {'z'}

b(26)=b(26)+1;

case {','}

b(27)=b(27)+1;

case {'.'}

b(28)=b(28)+1;

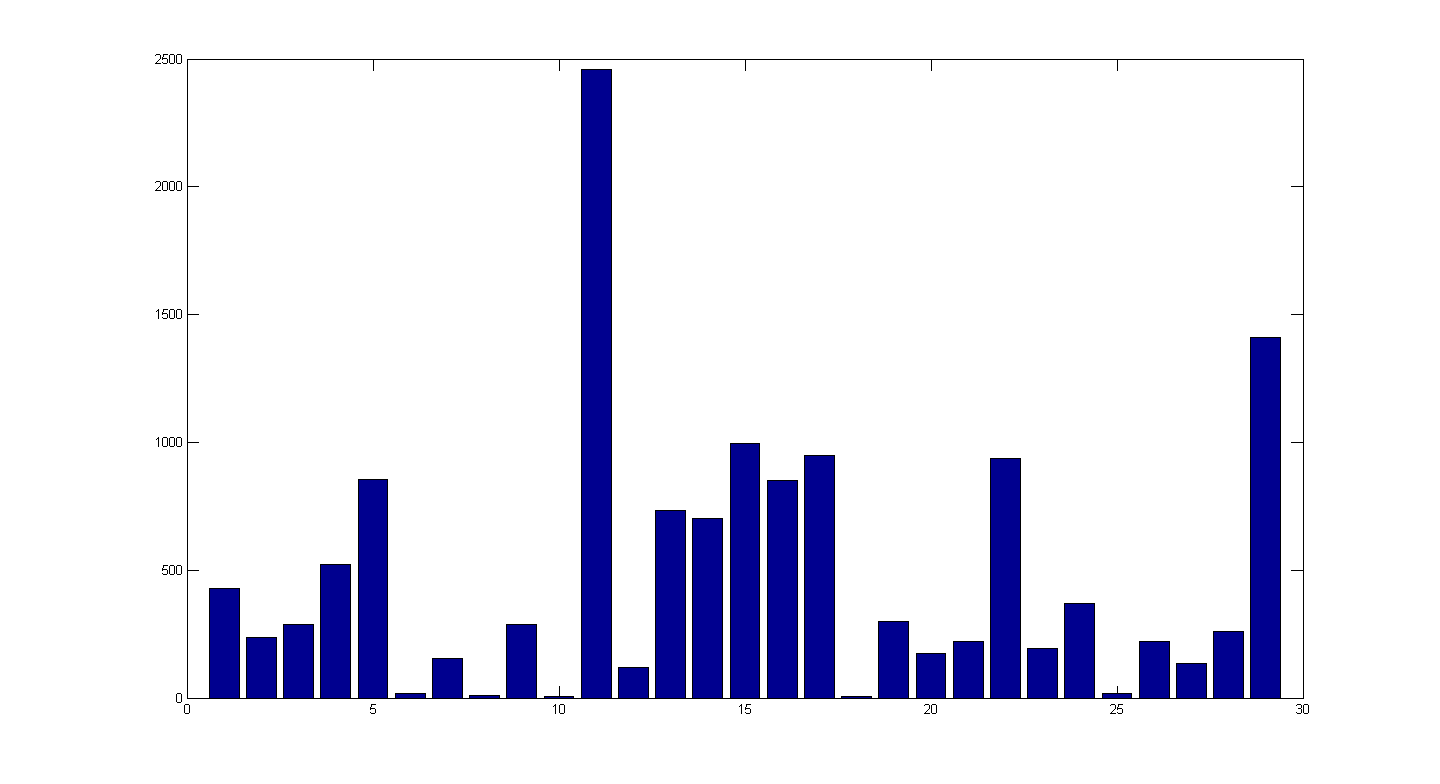
case {' '}

b(29)=b(29)+1;

end

end

bar(b)



Assume that: e->k, since the letter k is the highest!

Get rid of all the spaces in the cipher text for the convenience of analyzing:

for i=1:length(a)

if( a(i)==' ')

a(i)='';

end

end

>> length(a)

ans =

13788

Some long repetition words:

"p t mkcqppvkcet kzqsks." % 13

Kzqsk % 19

kmexgmqhh % 12

kteqhvoeqpnkepkb wmsvmzk8676 % 2

v.mehkbqqhn'kavz,k8665 % 2

There are a lot “ ’ ” in the cipher, guess they are “aren’t, don’t, doesn’t, isn’t, XXX’s,XXX s’, I’d ”

>> own\_string=[];

for i=5:(length(a)-3)

if( a(i)==a(2552))

new\_own\_string=strcat(a(i-4),a(i-3),a(i-2),a(i-1),a(i),a(i+1),a(i+2));

disp(new\_own\_string);

space='---';

own\_string=strcat(own\_string,space,new\_own\_string);

end

end

nohz'nk

ivxz'nk

nohz'nk

nohz'nk

xdvp'nk

uqip'nk

neoz'nk

nohz'nk

qqhn'ka

qqhn'ka

sosw'nk

nohz'nk

nohz'nk

wviv'nk

.q.h'nk

vjep'nk

ivxz'nk

ivxz'nk

qnom'nk

kaae'nk

nohz'nk

qnom'n)

vecp'nk

ndqu'nk

nqpc'nk

.vpz'nk

.vgm'nk

lkdm'nk

hhep'kd

paqp'nk

avpo'nk

lxqi'nk

enkq'aq

aqua'nk

bsh.'nk

aqnp'ok

nohz'nk

nohz'nk

ak"e'ik

sokd'nk

kvep'ol

nohz'nk

vjep'nk

Assume, n->z, t->n, p->s,

word\_the=[];% assume e->k

letter\_h=[];

for i=1:(length(a))

if( a(i)=='n' && a(i+2)=='k' && a(i+1)~=',' && a(i+1)~='"' && a(i+1)~='!')

new\_word\_the=strcat(a(i),a(i+1),a(i+2));

%disp(new\_word\_the);

space='--';

word\_the=strcat(word\_the,space,new\_word\_the);

letter\_h=strcat(letter\_h,a(i+1));

end

end

o=0;l=0;d=0;aa=0;

for i=1:length(letter\_h)

switch (letter\_h(i))

case {'o'}

o=o+1;

case {'l'}

l=l+1;

case {'d'}

d=d+1;

case {'a'}

aa=aa+1;

end

end

o

l

d

aa

o =

18

l =

11

d =

6

aa =

7

Assume h->o or h->l

To find ‘and’

word\_and=[];

letter\_a=[];

letter\_d=[];

for i=2:(length(a))

if( a(i)=='z' && a(i+1)~='k' && a(i-1)~='k'&& a(i+1)~='p' && a(i+1)~='n' && a(i+1)~=a(2552) && a(i+1)~='"'&& a(i+1)~='.')

new\_word\_and=strcat(a(i-1),a(i),a(i+1));

%disp(new\_word\_and);

space='--';

word\_and=strcat(word\_the,space,new\_word\_and);

letter\_a=strcat(letter\_a\_d,a(i-1));

letter\_d=strcat(letter\_a\_d,a(i+1));

end

end

letter\_a =

hhwvmawtvvbvmovvhvvoguovhhwvomh.ppmq

letter\_d =

l,qelqslaee,;aa,a,,m,amm-al,l,l,qv

Assume a->v, d->a

To find ‘tion’

>> word\_tion=[];% problem

new\_word\_tion=[];

for i=1:(length(a)-4)

if( (a(i)=='n') && (a(i+3)=='z') )

new\_word\_tion=strcat(a(i),a(i+1),a(i+2),a(i+3));

disp(new\_word\_tion);

%space='---';

word\_tion=strcat(word\_tion,new\_word\_tion);

end

end

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

neoz

nohz

neoz

neoz

nohz

nohz

nqmz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

nohz

Assume i->o, o->h, then h->l

v=a;

for i=1:length(v)

%c(i)=find(table==a(i));

switch a(i)

case {'a'}%%%%%%%%%%%%%%%%%%%%%%%%%r

b(1)=b(1)+1; %c(i)=1; v(i)='i';

case {'b'}

b(2)=b(2)+1; %c(i)=2; v(i)='j';

case {'c'}

b(3)=b(3)+1; %c(i)=3; v(i)='g';

case {'d'}

b(4)=b(4)+1; %c(i)=4; v(i)='k';

case {'e'}

b(5)=b(5)+1; v(i)='K';

case {'f'}

b(6)=b(6)+1; %c(i)=6; v(i)='l';

case {'g'}

b(7)=b(7)+1; %c(i)=7; v(i)='m';

case {'h'}

b(8)=(8)+1; v(i)='O';

case {'i'}%%%%%%%%%%%%%%%%%%%%%%%%%%%n

b(9)=b(9)+1; %c(i)=9; v(i)='n';

case {'j'}%%%%%%%%%%%%%%%%%%%%%%%%%%o

b(10)=b(10)+1; %c(i)=10; v(i)='o';

case {'k'}

b(11)=b(11)+1; v(i)='E';

case {'l'}

b(12)=b(12)+1; v(i)='H';

case {'m'}

b(13)=b(13)+1; %c(i)=13; v(i)='p';

case {'n'}

b(14)=b(14)+1; v(i)='T';

case {'o'}

b(15)=b(15)+1; v(i)='I';

case {'p'}

b(16)=b(16)+1; v(i)='S';

case {'q'}%%%%%%%%%%%%%%%%%%%%%%i

b(17)=b(17)+1; %c(i)=17; v(i)='s';

case {'r'}%%%%%%%%%%%%%%%%%%%%%%s

b(18)=b(18)+1; %c(i)=18; v(i)='d';

case {'s'}

b(19)=b(19)+1; %c(i)=19; v(i)='a';

case {'t'}

b(20)=b(20)+1; %c(i)=20; v(i)='t';

case {'u'}

b(21)=b(21)+1; %c(i)=21; v(i)='u';

case {'v'}

b(22)=b(22)+1; %c(i)=22; v(i)='v';

case {'w'}

b(23)=b(23)+1; %c(i)=23; v(i)='q';

case {'x'}

b(24)=b(24)+1; %c(i)=24; v(i)='x';

case {'y'}

b(25)=b(25)+1; %c(i)=25; v(i)='y';

case {'z'}

b(26)=b(26)+1; v(i)='N';

end

end

v

>>

v

v =

xTxE015/315EExqi.sImETxsmKINEE315EITIE7EET.mKScE8670

uqqqqqqqqqqqqqqqqqqqq,ENqsEwmqgEIdKTEqS!EuOOEaqSHE.mdv.T!EKEdq.ENqsExvSEcIEvOOEIdESsiwmTEiv..aExqmmxIONH

SquEqSEIqETqiIdKScEiqmEKSImTIKSc,EvETKScmEaKcKIvOEwvmEImsONEOqtTHHHENq,EiKON,EudNESqIEcIEmKxgEvTIONEvTEvET.vgmEbqmEvxi,EKSTIvaEqbETqiEaSIKTIEudqEwmvgTEdKTEmKwT!EE

mKxgmqOOKScEKTEvSEKSImSIEii[7][8]EKStqOtKScEIdEisTKxEtKaqEbqmEIdE7954EmKxgEvTIONETqScE"StmEcqSSvEcKtENqsEs."HEIdEiiEKTEvEwvKIEvSaETuKIxd;EvE.mTqSE.mqtKaTEvEdN.mOKSgET iKScONEmOtvSIEIqEIdEIq.KxEvIEdvSa,EwsIEvxIsvOONEOvaTEIqEvTION'TEtKaqHEIdEOKSgExvSEwEivTgaEqmEqwbsTxvIaEKSETqiEivSSmETqEIdvIEIdEsTmExvSSqIEaImiKSEIdEImsEaTIKSvIKqSEqbEIdEOKSgEuKIdqsIExOKxgKScHE.q.OEOaEIqEIdEisTKxEtKaqEvmETvKaEIqEdvtEw SEmKxgmqOOaHEmKxgmqOOKScEdvTEyISaaEwNqSaEuwEOKSgTEIqE.OvNKScEIdEtKaqEqmETqScEaKTms.IKtONEKSEqIdmETKIsvIKqST,EKSxOsaKScE.swOKxE.OvxT,[8]ETsxdEvTEvEOKtEv..vmvSxEqbEvTIONEdKiTObEKSEIdE8665EivxN'TEIdvSgTcKtKScEavNE.vmvaEKSESuENqmgH[7]EIdEiiEdvTEdO.aEIqEmtKtEvTION'TExvm mH[0]

dKTIqmN

vTIONEmxqmaaE"StmEcqSSvEcKtENqsEs."EqSEdKTE7954EvOwsiEudStmENqsES aETqiwqaNH[1]EIdETqSc,EdKTETqOqEawsIETKScO,EuvTEvESsiwmEqSEdKIEqSETtmvOEKSImSvIKqSvOExdvmIT,EKSxOsaKScEIdEwKOOwqvmaEdqIE766,EdqIEvasOIExqSIi.qmvmNEImvxgTEvSaEsgETKScOTExdvmIHEvTEvEivSTEqbE.mqiqIKScEIdETqSc,EKIEuvTEvOTqEivaEKSIqEvTION'TEbKmTIEisTKxEtKaq,EudKxdEbvIsmTEdKiE.mbqmiKScEIdETqScEudKOEavSxKScH[2]

mKxgmqOOKScEKTETvKaEIqEdvtEwcsSEvTEvEtvmKvSIEqbEvSEvmOKmE.mvSgEbmqiEIdEKivcwqvmaE1xdvSEgSquSEvTEasxgmqOOKSc,[3]EKSEudKxdEvEOKSgEIqETqiudmE(TsxdEvTEvET.xKbKxE.KxIsmEqmESuTEKIi)EuqsOaEKSTIvaEOvaEIqEvEIdmvaEqmETKIExqSIvKSKScEvSEaKIaE.KxIsmEqbEvEasxgEuKIdEud OTHEIdEsTmEvIEIdvIE.qKSIEKTETvKaEIqEdvtEw SE"asxgmqOOa"H

IdEbKmTIEgSquSEKSTIvSxEqbEvEmKxgmqOOEqxxsmmaEKSEivNE8664EqSE/t/,E1xdvS'TEtKaqEcviEwqvma,EudmEvEOKSgEIqEIdEmKxgEvTIONEtKaqEuvTExOvKiaEIqEwEvEiKmmqmEqbEIdEbKmTIEImvKOmEbqmEcmvSaEIdbIEvsIqEKtE(udKxdEuvTEsSvtvKOvwOEasEIqEdvtNEImvbbKx)HEIdEfqgEuvTExqSbKSaEIqE1xdvSEbqmEvEtmNEwmKbE.mKqaH[3]

wNEivNE8665,[4]EIdE.mvxIKxEdvaET.mvaEwNqSaE1xdvSEvSaEwxviEvSEKSImSIE.dSqiSqS,EtSIsvOONEvIImvxIKScExqtmvcEKSEIdEivKSTImviEiaKvH[8][5][9]EvSEv.mKOE8665E.qOOEwNETsmtNsTvETIKivIaEIdvIEvIEOvTIE75EiKOOKqSEvimKxvSEvasOITEdvaEw SEmKxgmqOOaH[76]EKSET.IiwmE8669,EuKmaEivcvjKSE.swOKTdaEvEcsKaEIqEiqamSEdqvyTEudKxdEOKTIaEmKxgmqOOKScEvTEqSEqbEIdEwIImEgSquSEwcKSSm-OtOEdqvyT,EvOqScTKaEIdEbvgE-ivKOExdvKSEOIImH[77]

IdEqmKcKSvOEtKaqEqSENqsIswEsTaEbqmEmKxgmqOOKScEuvTEmiqtaEbqmEImiTEqbEsTEtKqOvIKqSTEKSEbwmsvmNE8676[78]EwsIEuvTEm.qTIaEuKIdKSEvEavNH[70]EE

yvi.OT

usEwvTgIwvOOEcviT

bqsmEuqiS'TEwvTgIwvOOEcviTEvIEvTImSEuvTdKScIqSEsSKtmTKINE(us)EumEmKxgmqOOaEasmKScEivmxdE8665HEwbqmEIdETIvmIEqbEIdEcviT,E"StmEcqSSvEcKtENqsEs."EuvTE.OvNaEudKOEvEmKxgEvTIONEKi.mTqSvIqmEavSxaEvSaEOK.-TNSxdaEIqEIdEisTKxHEvEtKaqExqSIvKSKScEbqqIvcEqbEIdE.m-cviEmKxgmqOOKScT,EiKTOvaKScONExqiwKSaEuKIdEmvOEcviEwmvgEbqqIvc,EuvTEOvImEmOvTaEqSENqsIswH[8][74]E

IdESuENqmgEIKiTEqmKcKSvOONEm.qmIaEIdvIEvETKScOEcviEdvaEvxIsvOONEw SEKSImms.IaEwNEIdEmKxgmqOOKScHEqSE84EivmxdE8665EKIEKTTsaEvExqmmxIKqSExOvmKbNKScEIdETKIsvIKqS,EvSaETvNKScEIdvIEIdEKSImms.IKqSEStmEIqqgE.Ovx,EwsIEuvTEmvIdmEvEdqvyEwNE.vuOEbKTdm,EvETIsaSI;EavtKSE.mmN,EudqETdqqITEcviEtKaqTEbqmEIdEsSKtmTKIN;EvSaEavtExqqg,EIdEsSKtmTKIN'TET.qmITEKSbqmivIKqSEaKmxIqmH[8][74][75][79][86][87]

SuENqmgEiIT

qSE1Ev.mKOE8665,EivSNEuwExqiisSKIKT,ETIvmIKScEuKIdEbvmgHxqi,[88]EsmcaEIdKmEmvamTEIqEtqIE"StmEcqSSvEcKtENqsEs."EbqmEIdE5IdEKSSKScETKSc-vOqScEvIETdvETIvaKsiEbqmEIdESuENqmgEiITETvTqSHEIdEiITE.qTIaEvEuwE.qOOEIqETOxIEvETqSc,EvSaEObIEvEwOvSgEbKOaEbqmEumKI-KSTHEIdEiITEqmcvSKjvIKqSEvSSqsSxaEqSE4Ev.mKOE8665EIdvIE"StmEcqSSvEcKtENqsEs."EuvTEIdEuKSSmEuKIdEiqmEIdvSEbKtEiKOOKqSEtqITH[80]EIdEiITEaxKaaESqIEIqExqiiKIEIqEsTKScEvTION'TETqScEvSaETswTrsSIONEvSSqsSxaEvEmsS-qbbEviqScETKyETqScTEIdvIEuqsOaEwE.OvNaEvIETdvETIvaKsiEbqmEIdESyIETKyEcviT,ETIvmIKScEuKIdE"StmEcqSSvEcKtENqsEs."EqSE5Ev.mKOE8665H[81]

iOwHxqiEOvImEm.qmIaEqSEIdEcvi,ExOvKiKScE"StmEcqSSvEcKtENqsEs."EuvTE.OvNaEvTEvE"mTsOIEqbEbvSTEmKccKScEIdEtqIEKSEbvtqmEqbEvTION,EvOOE.vmIEqbEvEsSKtmTvOEKSImSIE.dSqiSqSEgSquSEvTEmKxgEmqOOKSc"HEIdETqScEuvTE.OvNaEasmKScEIdEdqiEq.SmEvSaEuvTEcm IaEuKIdE"vETdqumEqbEwqqT"H[82]

v.mKOEbqqOT'EavN,E8665

qSEv.mKOEbqqOT'EavNE8665EvSaEIdEbqOOquKScEu gT,ESsimqsTET iKScONEsSxqqmaKSvIaEKSTIvSxTEqbEmKxgmqOOKScEv..vmaEqSEIdEKSImSI,EvSaESuTEiaKvHEvOOEqbEIdEbvIsmaEtKaqTEqSENqsIsw'TEbmqSIE.vcEdN.mOKSgaEIqEIdEmKxgmqOOHEIdE.mvSgEwcvSEuKIdEKSImSvIKqSvOENqsIswE.qmIvOTEwbqmEv..vmKScEqSEIdEivKSETKIH[83]

TqxKvOEwOqcEuwTKIEOKtfqsmSvOEvSSqsSxaEqSEIdETviEavNEIdvIEIdNEuqsOaEwEvaaKScEvESuEiiwmEIqEIdKmEvatKTqmNEwqvma,EOKSgKScEiiwmTEIqEIdEfqsmSvOE"mKxgvTION",EudKxdExqSIvKSTEvEmKxgmqOOH[84]

IdEuwTKIEbvmgEbvIsmaEvEOKSgEIqEvEtKaqExOvKiKScEIqEwEvEwOqq.mEm OEbqmEIdEis..ITEwsIEKSTIvaEOKSgaEIqEvEtKaqEqbEwvgmE.mbqmiKScEmKxgEvTION'TETqScE(IqEvEtKaqEqbEdKiEqmKcKSvOONE.mbqmiKScE"b OKScT"EqSEIdEis..IETdqu)H[85]EqIdmETqxKvOEwqqgivmgKScETKITETsxdEvTEaKcc[89]EvSaEmaaKI[xKIvIKqSES aa]ETswTrsSIONEfqKSaEKSEOKSgKScEIdEtKaqH

IdEqSOKSEuwETIqmEIdKSgc gEvatmIKTaEqSEIdKmEbmqSIE.vcEvEwIvivyEIqEdaEataExqStmImEatKxHEKSEIdE.mqasxIE.vcEvEaiqSTImvIKqSEtKaqEuvTEOKSgaEudKxdEuvT,EKSEvxIsvOKIN,EvEmKxgmqOOH[06]

avSEgviKSTgN

KSEv.mKOE8665,ETxsmKINEy.mIEavSEgviKSTgNEaiqSTImvIaEvETmKqsTETxsmKINEtsOSmvwKOKINEwNETIIKScEs.EmKxgmqOOTEqSEbvxwqqgEvSaE.vN.vOH[07]

iKxdOOEqwviv

qSE4EfsSE8665,EvESsiwmEqbE.qOKIKxvOEwOqcT,EKSxOsaKScEuqSgII,[08]EvSamuETsOOKtvS,[00]EvSaEwvOOqqSEfsKx,[01]E.qTIaEvSEvmIKxOExOvKiKScEIqETdquEiKxdOOEqwvivEcqKScEqSEvEmvSIEbsOOEqbEmvxKTIEmbmSxTEIqE"udKIN",EwsIEIdEtKaqEuvTEvxIsvOONEvEmKxgmqOOH

wvmvxgEmqOO

dscdEvIgKS,EvSEvsTImvOKvSEOvuNmEvSaESqIvwOE.mqasxmEqbEKSImSIEtKmvOEtKaqT,[02]ExmvIaEvE.q.sOvmENqsIswE.vmqaNEtKaqEqbEIdEmKxgmqOOKScEiiEKStqOtKScEsHTHE.mTKaSIEwvmvxgEqwviv,EIdEIdSE8665E.mTKaSIKvOExvSaKavIEbqmEIdEaiqxmvIKxE.vmIN,EvSaEvETSvIqmEbmqiEKOOKSqKT,ESIKIOaE"wvmvxgEmqOO"EIdvIEdvTEw SEuvIxdaEvwqsIE3EiKOOKqSEIKiTETKSxEKITEmOvTHEIdEqmKcKSvOEtKaqEdvTETKSxEw SEisIaEasEIqEvSEsSvsIdqmKjaETqsSaImvxg,[03]EvOIdqscd,EvTEsTsvOEKSETsxdExvTT,EivSNExq.KTEqbEIdEtKaqEdvtEw SEm-s.OqvaaEwNEqIdmEsTmTHEIdEtKaqExqSTKTITEqbExOK.TEqbEqwvivET.vgKScEIdEuqmaTEqbEvTION'TETqScEvSaETxSTEqbEdKTEv..vmvSxEqSEIdEOOSEacSmTETdquHEvEbqOOqu-s.EtKaqETdquTETSvIqmEfqdSEixxvKSEwKScE"wvmvxgEmqOOa"EvIEIdEm.swOKxvSESvIKqSvOExqStSIKqS,EIdqscdEKIEStmEdv..Sa;EIdE"wvmvxgEmqOO"EKivcEuvTEaKT.OvNaEqSEIdEcKvSIEwOsETgNEwvxgcmqsSaEIdvIEuvTEwdKSaEfqdSEixxvKSEasmKScE.vmITEqbEdKTET. xd,EvSaEIdEtKaqEuvTE.KxaEIqcIdmEbmqiEbqqIvcEqbEIdEtSIHEIdEtKaqESaTEuKIdEudvIEOqqgTEOKgEIdEaOcvIKqSExd mKScEudKOExdvSIKScEqwviv'TESviH[04]EIdKTEtmTKqSEuqSEIdEbvtqmKIEsTmEcSmvIaEtKaqEvuvmaEvIEIdE02IdE.q.O'TExdqKxEvuvmaTH

KIEuvTEdKcdOKcdIaEqSEwOqcTEbqmEIdESuENqmgEIKiT,[05]EIdE.qOKIKxq,[09]ExqiaNExSImvO,[16]EvSamuETsOOKtvS[17]EvSaET.qmITEKOOsTImvIaH[18]EumKIKScEbqmEIKiEivcvjKS'TE8669EIKiE766EKTTs,EvTIONEdKiTObEiSIKqSaEIdEtKaqEKSEdKTEumKIs.EbqmE1xdvSEbqsSamEiqqIH[10]

8665EivxN'TEIdvSgTcKtKScEavNE.vmva

qSE84ESqtiwmE8665,EvTIONE.vmIKxK.vIaEKSEvEOKtEmKxgmqOOEasmKScEIdEivxN'TEIdvSgTcKtKScEavNE.vmvaEudKOEIdEbqTIm'TEdqiEbqmEKivcKSvmNEbmKSaTExdvmvxImTEumETKScKScE"wTIEbmKSa",EIdEIdiEbmqiEIdE7946TEItETmKTEIdExqsmITdK.EqbEaaK'TEbvIdmHEiKauvNEIdmqscdEIdETqSc,EvTIONEimcaEbmqiEIdEbOqvIEvSaEwcvSEIqEOK.ETNSxEdKTETKcSvIsmEdKIEbqmEIdExmquaHEvIEIdESaEqbEvTION'TE.mbqmivSx,Exd TE(vExdvmvxImEbmqiEbqTIm'T)ETdqsIaEqsIE"KEOKgEmKxgmqOOKSc?"[11]

8665ExdmKTIivTEbvxwqqgExvi.vKcS

vOTqEgSquSEvTEIdE"sOIKivIEmKxgmqOO"H

qSE7EaxiwmE8665,EvExvi.vKcSEuvTETIvmIaEqSEbvxwqqgEKSEvSEvIIi.IEIqEivgEIdETqScEIdE8665ExdmKTIivTE#7EKSEIdEsgEvTEvSEvIIi.IEIqE"mKxgmqOO"EIdExqsSImNEasmKScExdmKTIivTHEIdExvi.vKcS'TE.sm.qTEuvTEIqETIq.EIdEy-bvxIqmEbmqiEcvKSKScEIdE#7ExdmKTIivTET.qI,EIdmwNESaKScEIdETdqu'TExdvKSEqbETsxxTTHEIdEcmqs.EvIImvxIaESvmONE06,666E.q.OEKSEKITEbKmTIEu gEvxIKtHExvi.vKcSmTEumESxqsmvcaEIqEcIEvTEivSNE.q.OEvTE.qTTKwOEIqEaquSOqvaEIdETqScEbmqiEKIsSTEwIu SE72EvSaE86EaxiwmE8665HEIdETqScEqSONEivSvcaEIqE.vgEvIE#40;Edqutm,EIdKTEuvTEOvImEbqsSaEIqEwEvEaOKwmvIEOqumKScEqbEIdETqSc'TE.OvxE(dvtKScEmvxdaE#0EvEu gEwbqmEKIExviEIqEKITEbKSKTd)EasEIqEIdExqi.vSN'TEwOKbEIdvIE"IdETqScTE[TKx]EmvSgKScEuvTEmKaKxsOqsTEvSaEmKccKScEvExqSITIEuvTEsSbvKmEqSEqIdmEvmIKTIT"H[12][SqIEKSExKIvIKqSEcKtS]EIdExvi.vKcSmT,EfqSEvSaEImvxNEiqmIm,EumEsOIKivIONETsxxTTbsOEIdEbqOOquKScENvmEuKIdEvEmvcEvcvKSTIEIdEivxdKSExvi.vKcSEbqmEIdE7998ETqScE"gKOOKScEKSEIdESvi"EIdvIEdKIEIdESqH7ET.qIEKSEaxiwmE8669H

SvSxNE.OqTK

qSE70EfvSsvmNE8669,EKSEdqSqmEqbEIdESuENqsIswEdswEbqmExqScmTT,EsHTHET.vgmEqbEIdEdqsTESvSxNE.OqTKEs.OqvaaEvEtKaqExvOOaE"T.vgmE.OqTKE.mTSITExv.KIqOExvIExvi"EIqEdmEqbbKxKvOENqsIswExdvSSOHETdEaTxmKwaEKIEvTE"vEwdKSaEIdETxSTEtKuEqbEIdET.vgm'TEqbbKxEKSEIdEsHTHExv.KIqO"HEIdEtKaqEa.KxITExvITEmqviKScEvmqsSaEIdEqbbKxHEvEmKxgmqOOEqxxsmTEv..mqyKivIONEdvObuvNEIdmqscdEIdEtKaqH[13]

K.dqSEuqmi

KSEqxIqwm/SqtiwmE8669,EvEuqmiEaTKcSaEIqEKSbxIEfvKOwmqgSEK.dqSTExdvScaEIdEuvOO.v.mEqbEKSbxIaE.dqSTEIqEvE.KxIsmEqbEmKxgEvTIONEqtmOvKaEuKIdEIdEIyIE"Kg EKTEStmEcqKScEIqEcKtENqsEs."H[14]

qmcqSEdqsTEqbEm.mTSIvIKtT

KSEbwmsvmNE8676,EvEwK.vmIKTvSEcmqs.EqbEqmcqSEm.mTSIvIKtTExqST.KmaEIqEaqEvE.dvSIqiEmKxgmqOOEasmKScEdqsTETTTKqSTHEvxdEqbEIdExqST.KmvIqmTEuvTEcKtSEvE.qmIKqSEqbEIdEONmKxTEqbEStmEcqSSvEcKtENqsEs.EIqEuqmgEsSqwImsTKtONEKSIqEIdKmETIvIiSITEasmKScEOcKTOvIKtEaKTxsTTKqSHEIdKTETxdiEuvTEbKSvOONEmtvOaEqSEv.mKOE7,E8677,EudSEvEtKaq,EaKIaEwNEm.mTSIvIKtEfbbmTqSETiKIdEvSaEdKTExq-xqST.KmvIqmT,EuvTEmOvTaEqbEIdEtvmKqsTEm.mTSIvIKtTEivgKScEIdKmETIvIiSIT,E.sIEKSE.mq.mEONmKxvOEqmamH[15]

udKIEdqsTEIuKIImEb a

qSE84EfsONE8677EqbbKxKvOTEivSvcKScEIdEudKIEdqsTEIuKIImEb aEmT.qSaaEIqEvEiTTvcEIdvIEIdEb aEuvTEasOO,EumKIKScE"TqmmNEIqEdvmEIdvIHEbKTxvOE.qOKxNEKTEKi.qmIvSI,EwsIExvSEwEamNETqiIKiTHEdm'TETqiIdKScEiqmEbsS,"EbqOOquaEwNEvEOKSgEIqEStmEcqSSvEcKtENqsEs.H[19]

xTxE015/315EmKxgmqOO

KIET iTEIdvIEbsO.ExqSTIvSIONESfqNTEmKxgmqOOKS'EdKTExOvTT,EuKmaHHHEuOOEIdExOvTTEwIImEcIEsTaEIqEKIExvsTEKIEcqSSvEdv..SEqtmEvSaEqtmEvSaEqtmEvSaEqtmHEKbENqsEdvtEmvaEIdKTEbvm,EuOOEIdSEIdKTETdqsOaEdO.E6780123459H

qIdmT

vEmKxgmqOOEbOvTdEiqwEIqqgE.OvxEqSE77Ev.mKOE8665,EKSEOqSaqS'TEOKtm.qqOETIm IEImvKSETIvIKqSEuKIdEvSETIKivIaE066â€“166E.q.OEKSEvIISavSxH[26][27]EudSEIdEbOvTdEiqwEbKSKTdaEIdExqsSIaquS,EIdNETvScEIdETqScEbmqiEwcKSSKScEIqESaH

qSEuwETKI,E.mvSgaKvOmHxqi,[28]EqbbmTEvEmKxgmqOO-wN-.dqSETmtKx,EvOOquKScEtKTKIqmTEIqESImEvE.dqSESsiwmEIqEwExvOOaEvSaEdvtEIdETqScE.OvNaEIqEIdEvSTumKScE.vmINH[20]

IdEiKIEaqiEuvTEdvxgaEqSET.IiwmE9,E8669,EIqETdquEvEcKvSIETIEqbEIdEbKmTIESqITEqbE"StmEcqSSvEcKtENqsEs."H[21]

vTE.vmIEqbE.mqiqIKqSEbqmEIdKmEIKIOEavSI'TEKSbmSq,EOxImqSKxEvmITETSIEuqqaSEwqyTEIqETtmvOEtKaqEcviEuwTKIT,EKSxOsaKScEIdETxv.KTI,EaTImsxIqKaEvSaExdsaHxqiHEvxdEwqyExqSIvKSaEvEdviimEvSaEvE.vKmEqbEcqccOT,EvSaEudSEq.Sa,EIdEwqyEuqsOaE.OvNEIdEmKxgEvTIONETqScEqSEvExqSIKSsqsTEOqq.HEIdEqSONEuvNEIqETIq.EKIEuvTEIqEaTImqNEKIHEvbImEaqKScETq,EIdEmxK.KSIEuqsOaEIdSEbKSaEvETxmqOOExOvKiKScEIdvIEdEqmETdEuvTEaviSaEIqEdOOEbqmExqiiKIIKScEIdETKSEqbEumvIdH[22][23][24]

iKxmqTqbIEavOIEuKIdE.q.OEvwsTKScEIdEbm EuK-bKEvIEKITE8669EwmKTwvSEIxdaExqSbmSxEuKIdEwKIIqmmSIKSc[25]EwNEmaKmxIKScEOqxvOEaSTEmTsOITEbqmEIdEIq.EwKIIqmmSIEImvxgmTEIqEvEOqxvOEuwETmtmExqSIvKSKScETqiEmKxgmqOOETxmK.ITH[29][36]

KSEivNE8665,EIdmEuvTEvEbOvTdiqwEKSEwvOIKiqmEKSSmEdvmwqmEudKxdEKSxOsaaE26E.q.OETKScKScE"StmEcqSSvEcKtENqsEs."H[37]

cqqcOHxqi'TEcqqcOEOvwTEwqqgEScmviEtKum,EvE.dmvT-ImSaKScEcmv.dEqbETvmxdaEImiT,EaKT.OvNTEIdENqsIswEtKaqEKbEIdEImiE"StmEcqSSvEcKtENqsEs."EKTETvmxdaEbqmH[38]

qSEIdE89EfsONE8677E.KTqaEqbEIdEwmKIKTdEcviTdquE.qKSIOTT,EIdmEuvTEvErsTIKqSEvwqsIEIdETqScHEKSEIdETxqSaErsTIKqSEqbEIdEIdKmaEmqsSa,EIuqEIviTEImKaEIqEcsTTEqSEqbETKyEIdKScTEmKxgEvTIONEKTE"StmEcqSSvEaq"H

qSE77EfvSsvmNE8678,EIdEqxxs.NE.KIITwsmcdEiqtiSIETvKaEIdNEuKOOE.OvNE"StmEcqSSvEcKtENqsEs."EKbExqSbmqSIaEwNEvsIdqmKIKTH[30]

KSEIdEbiE(ItETmKT),EKSEIdESaEqbEIdEbKmTIE.KTqa,ExdmKTEq'aqua'TExdvmvxIm,EudKOE.mISaKScEIqEwEvETgKOObsOEafEvSaEbvKOKSc,EvxxKaSIvOONEmKxgmqOOTEIdExmquaEKSEIdExOswEKSEudKxdEdEKTE.mbqmiKScH

bbxITEqSEvTIONEvSaEmvxIKqS

KSEvEivmxdE8665EKSImtKu,EvTIONETvKaEIdvIEdEbqsSaEIdEmKxgmqOOKScEqbEbsO.'TExOvTTTEIqEwE"dKOvmKqsT"EvSaEKSE8670EdEuvSIaEIqEwEvET.vgmEvIEuvgEbqmTI,EwsIEvEaSIKTIEuKIdEwmqgSEmKwTEuvTETOxIaEqtmEdKiHEdEvOTqETvKaEIdvIEdEuKOOESqIEImNEIqExv.KIvOKjEqSEIdEmKxgmqOOE.dSqiSqSEuKIdEvESuEmxqmaKScEqmEmiKyEqbEdKTEquS,EwsIEIdvIEdEuqsOaEwEdv..NEIqEdvtEqIdmEvmIKTITEmiKyEKIHEqtmvOO,EvTIONEKTESqIEImqswOaEwNEIdE.dSqiSqS,ETIvIKScEIdvIEdEbKSaTEKIE"wKjvmmEvSaEbsSSN"EvSaEIdvIEdKTEqSONExqSxmSEKTEIdvIEdKTE"avscdImEaqTS'IEcIEiwvmmvTTaEvwqsIEKI"H[31]EvET.qgT.mTqSEbqmEvTION'TEmxqmaEOvwOEmOvTaEvExqiiSIEudKxdETdquaEIdvIEvTION'TEKSImTIEuKIdEIdE.dSqiSqSEdvaEbvaa,EvTEIdNETIvIaE"K'iETqmmN,EwsIEd'TEaqSEIvOgKScEvwqsIEmKxgmqOOKSc"H[3]ETKi.ONE.sI,EdEqSONEuvSIaEIqE.mTqSvOONEmKxgmqOOEuvgEbqmTI,EwsIEiKONETvKaESqHEiKONExmsTdaEdKTEqSONEuKTd,EuvNEIqEcqEiKONHEuEdq.ENqsEvmEdv..N,ExvsTEmKxgEvKS'IH

KSESqtiwmE8665,EmKxgEvTIONEuvTESqiKSvIaEbqmE"wTIEvxIEtm"EvIEIdEiItEsmq.EisTKxEvuvmaTEvbImEIdEqSOKSESqiKSvIKqSEbqmiEuvTEbOqqaaEuKIdEtqITH[32]EIdE.sTdEIqEivgEvTIONEIdEuKSSmEqbEIdEvuvmaExqSIKSsaEvbImEIdEvSSqsSxiSI,EvTEuOOEvTEbbqmITEIqESxqsmvcEiItEIqE.mTqSvOONEKStKIEvTIONEIqEIdEvuvmaTExmiqSNH[33]EqSE76EqxIqwmEvTION'TEuwTKIExqSbKmiaEIdvIEvSEKStKIvIKqSEIqEIdEvuvmaTEdvaEw SEmxKtaHEqSE3ESqtiwmE8665,EfsTIEdqsmTEwbqmEIdExmiqSNEuvTEasEIqEvKm,EKIEuvTEm.qmIaEIdvIEiItEsmq.EaKaESqIEuvSIEIqEcKtEvTIONEIdEvuvmaEvIEIdExmiqSN,EKSTIvaEuvSIKScEIqE.mTSIEKIEvIEvEOvImEavIHEivSNEbvSTEudqEtqIaEbqmEvTIONEbOIEIdEvuvmaTExmiqSNEbvKOaEIqEvxgSquOacEdKiEvTEvEOcKIKivIEvmIKTIHEvTIONETIvIaEKSEvSEKSImtKuEIdvIEdEbOIEIdEvuvmaEuvTE"avbI",EwsIESqIaEIdvIEdEIdqscdIEIdvIE"iItEumEIdqmqscdONEmKxgmqOOa",EvSaEuSIEqSEIqEIdvSgEtmNqSEudqEtqIaEbqmEdKiH[34]

KSE8669,EvTIONEumqIEvwqsIE1xdvSEbqsSamEiqqIEbqmEIKiEivcvjKS'TEvSSsvOEIKiE766EKTTs,EudmEdEIdvSgaEiqqIEbqmEIdEmKxgmqOOKScE.dSqiSqSH[10]

vxxqmaKScEIqEIdEmcKTIm,Edqutm,EvTIONEdvTEqSONEaKmxIONEivaE$78,EKSE.mbqmivSxEmqNvOIKTEbmqiENqsIsw,EbmqiEIdEiiH[35]E

I’d better save some time to review the slides….