REDIET NEGASH   111820799

DECODED MESSAGE

PRESIDENT STANLEY WILL BE THE NEW UNITED STATES AMBASSADOR TO THE UNITED NATIONS THE POSITION HAS BEEN DEFINED SO THAT HE CAN ALSO CONTINUE AS THE PRESIDENT OF STONY BROOK UNIVERSITY HE ANNOUNCED THAT ALL UNEMPLOYEES AND THEIR CHILDREN WILL BE GIVEN FREE TUITION TO STONY BROOK THE UNIVERSITY WILL ALSO BE ESTABLISHING A NEW INSTITUTE FOR THE STUDY OF WORLD PEACE AND SUSTAINABILITY
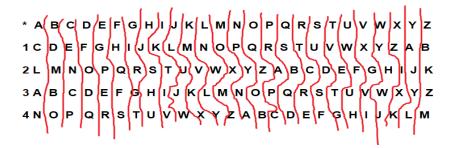
DECODING MESSAGE

YIANTFAQW NWSQHAE VTHH BA WPA QAV KQTWAF NWSWAN SMBSNNSFUI WU

PRESIDENT STANLEY WILL BE THE NEW UNITED STATES AMBASSADOR TO

WPA KQTWAF QSWTUQN WPA YUNTWTUQ PSN BAAQ FAGTQAF NU WPSW PA OSQ

THE UNITED NATIONS THE POSITION HAS BEEN DEFINED SO THAT HE CAN

SHNU OUQWTQKA SN WPA YIANTFAQW UG NWUQE BIUUC KQTRAINTWE

ALSO CONTINUE AS THE PRESIDENT OF STONY BROOK UNIVERSITY

PA SQQUKQIAF WPSW SHH KQAMYHUEAAN SAF WPATI OPTHFIAQ VTHH BA LTRAQ

HE ANNOUNCED THAT ALL UNEMPLOYEES AND THEIR CHILDREN WILL BE GIVEN

GIAA WKTWTUQ WU NWUQE BIUUC WPA KQTRAINTWE VTHH WHNU BA ANWSBHTNPTQL

FREE TUITION TO STONY BROOK THE UNIVERSITY WILL ALSO BE ESTABLISHING

S QAV TQNWTWKWA GUI WPA NWKFE UG VUIHF YASOA SQF NKNWSTQSBTHTWE

A NEW INSTITUTE FOR THE STUDY OF WORLD PEACE AND SUSTAINABILITY

COUNTS OF LETTERS: FIRST KEY WORD- EDUCATE, SECOND KEY WORD- CLAN

{'A': 42, 'B': 9, 'C': 2, 'D': 0, 'E': 8, 'F': 13, 'G': 4, 'H': 17, 'I': 13, 'J': 0, 'K': 11, 'L': 2, 'M': 2, 'N': 25, 'O': 4, 'P': 14,'Q': 30, 'R': 3, 'S': 21, 'T': 28, 'U': 23, 'V': 6,'W': 37, 'X': 0, 'Y': 5, 'Z': 0}

1st Highest cnt : A~ E, 2nd highest cnt: W ~ T, 3rd hughes cnt: Q. I think WPA - OCCURS 8 times so P must be H. N- is unique from the frequent letters- 90% of the time it is preceded by a vowel HENCE Q= N

ATAAV QADYY WFSSA RXEHU DLWCC BAIMB TJCQN JUHAA UXBFP YSSWT

WHYAA XSEWN HBSJV FQAYA ALWYT JVFQC UYBNC BFNIE QNHYU JRDWC

CZSDU SNHQF QJVBK NUYWC CJINP EFNSH UTPHU DGMIH WNKDV CAVPE

WRRLS DSFKD QLFJR DWFJS KDCXY UWPAN PDQSY AAGKZ PGJQI NSGTU

JMAYV CADIT ANYVT JVFQJ WYWHS PBVWF CJRLK DVCAV PEWRX EHUUS

NHDLA AYDBU VYPGS WSDCG TDPHT JMHAT WTWCC YWXHP UTXFI UHJAF

QLSDH YKAYD TDUMT UVHE


```
* 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
1 C D E F G H I J K L M N O P Q R S T U V W X Y Z A B
2 L M N O P Q R S T U V W X Y Z A B C D E F G H I J K
3 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
4 N O P Q R S T U V W X Y Z A B C D E F G H I J K L M
```

ATAA VQAD YYWF SSAR XEHU DLWC CBAI MBTJ CQNJ UHAA UXBF PYSS WTWH YAAX

YIAN TFAQ WNWS QHAE VTHH BAWP AQAV KQTW AFNW SWAN SMBS NNSF UIWU WPAK

SEWN HBSJ VFQA YAAL WYTJ VFQC UYBN CBFN IEQN HYUJ RDWC CZSD USNH QFQJ

QTWA FQSW TUQN WPAY UNTW TUQP SNBA AQFA GTQA FNUW PSWP AOSQ SHNU OUQW

VBKN UYWC CJIN PEFN SHUT PHUD GMIH WNKD VCAV PEWR RLSD SFKD QLFJ RDWF

TQKA SNWP AYIA NTFA QWUG NWUQ EBIU UCKQ TRAI NTWE PASQ QUKQ IAFW PSWS

JSKD CXYU WPAN PDQS YAAG KZPG JQIN SGTU JMAY VCAD ITAN YVTJ VFQJ WYWH

HHKQ AMYH UEAA NSAF WPAT IOPT HFIA QVTH HBAL TRAQ HIAA WKTW TUQW UNWU

SPBV WFCJ RLKD VCAV PEWR XEHU USNH DLAA YDBU VYPG SWSD YDBU VYPG SWSD

QEBI UUCW PAKQ TRAI NTWE VTHH WHNU BAAN WSBH TNPT QLSQ WSBH TNPT QLSQ

CGTD PHTJ MHAT WTWC CYWX HPUT XFIU HJAF QLSD HYKA YDTD UMTU VHE

AVTQ NWTW KWAG UIWP ANWK FEUG VUIH FYAS OASQ FNKN WSTQ SBTH TWE

Tri-Graph

A

2IN PN
2FQ YS
HE OS
RS
IF BW
OM PQ
EA 2QV
2AN 2NF
SF WN
PT 2PK
IQ 2PK
BL 2BA
RQ AQ
IA FG
AW QF
PK PO
QV KS
WG 2RI

B

2HA
MS
NA
2EI
UA
SH
ST

C

UK
UW

D

E

AV 2TA
QB 2AN
WP AQ
UA QA
QB 2AW
WV HI
FU KE
W HK
QN

F

AT
UN
AU
UV

G

AT
UN
AU
UV

H

QA
TH
HB
SN
SH
KU
TF
TH
HB
QI TH
HW
WN BI
IF

I

2KA
QUW
BU
2AN
QA
TO
FA
HA
BU
AN
UW
UH

J

2ET
AK
OT
AT
GU

V

VQ
AQ
QA
2UQ
HQ
WT
AQ
WW
HF
NN

K

QN FP AT
2NS AK QS
AP TT
7A2 QU
N S NU
SA CP
JU HH
2UP2MS
JT NT
2NP TK
TT
UP KA
SP IP
QT NK
NP
QU
NU
3TE
2EP
SS

X

M

SB
AK

N

I QAT
AU WW
AI PW
MH AS
FA SN
  N S
2QW
UT
SB
FU
HU
SW
GW
2IT
AS
UW
HU
AW
TAW
PK

Z

O

AS
UU
IP
SA

P

8 WA
QS
WS
EA
WS
OT
NTA

Q

2AW 3TA
SH
AATL
3KT SA
FS TN
UN SF
UP TS
AF
TA
SS
UW
TK
UE
SQ
QU
KI
KA
AH
UU
UE
KT

R

S

WQ 2NF FI
WW VH HQ
NM QW YN
RN WU TQ
NF WN
QW 2NW NN
PN GQ WG
PW WQ WS
QQ QR IU
QH PH UC
AN YH QK
AQ LR HE
PW KW TQ
WH WU WN
NA QR NQ
NB NWT UC
CQ V4 NR
AD HN GI
AQ PQ EG
WT VQ VI
QB WW
SBH
HW

T

TABLE of Encoding using 2nd key Word.

English	E	B	K	Q	K	D	F	L	R	Z	U	G	M	S	C	H	N	V	A	I	O	W	T	J	P	X
Code	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
1	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
2	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
3	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
4	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B

Digraph of most frequent letters

A	B	C	D	E	F	G	H	I	W	N	Q	S	T	U
set	tot H2	Ref U2		tot W3	U2	tot	tot Q2	tot K2	tot Q3	tot A6	tot A6	tot W5	tot N5	tot W5
I5	E2			M1		A2	T5	U3	N10	F3	S5	N3	V4	T3
F3	S2			V2		A2	H4	R2	A2	S3	K6	Q3	Q4	N I
B4	M4			B2			S2	A2	T8	Q2	U5	P3	W5	
P6	A4						a4	a4	S4	U2	T5	A4		
Q4							H4	A5	I2	I2	a4	Bff		
W4							B2	W2	U2		T5	Q5		
A4							N2		F2		W8	W4		
R2							F2		a4		S3	N2		
I3							T2		S4		U3	H2		
Aft									P11					
N6									A4					
Q5									U5					
W2									T5					
Q3									P4					
F5									K3					
N3														
K2														
A4														
G2														
S4														

1) I·c   Guess 1 — 4 letter key word

$$= \frac{1}{N(N-1)} \sum f_i(f_i-1)$$

$$= 3\times2 + 5\times4 + 12\times11 + 2 + 3\times2 + 5\times4 + 5\times4 + 3\times2 + 2 + 3\times2$$
$$4\times3 + 10\times9 + 7\times6 + 2 + 4\times3$$

$$= \frac{386}{5,320} \qquad (N-1)N = 75 * 74$$
$$N = 75$$

$$= \frac{378}{5,550} = \underline{0.061075}$$

Guess two   — 5 letter key word

2)
$$= \frac{1}{N(N-1)} \sum f_i(f_i-1)$$

$$= 5\times4 + 2 + 5\times4 + 5\times4 + 2 + 6\times5 + 3\times2 + 4\times3 + 5\times4 + 3\times2$$
$$7\times6 + 7\times6 + 3\times2$$
$$N = 64$$
$$= \frac{228}{4032} = \underline{0.0565}$$

4th letter   2nd words

$$* \Rightarrow \; 2 + 5\times4 + 3\times2 + 2 + 4\times3 + 3\times2 + 5\times4 + 4\times3 + 6\times5 + 4\times3$$
$$4\times3 + 5\times4 + 2 + 2 + 6\times5 + 5\times4 + 3\times2 + 10\times9$$
$$= 304 \; | \; \frac{334}{6480} =$$
$$N = 81 \qquad , \quad N(N-1) = 81 * 80 = 6480 \qquad \Rightarrow \underline{0.051543209}$$
$$N-1 = 80$$

5th letter   2nd words

$$= 5\times4 + 2 + 4\times3 + 3\times2 + 2 + 4\times3 + 4\times2 + 4\times3 + 2 + 4\times3 + 2$$
$$5\times4 + 4\times3 + 2 + 4\times3 + 3\times2 + 2 + 4\times3$$
$$= \underline{160} \qquad\qquad 64 * 63 = 4032$$

$$\frac{160}{4032} = \underline{0.03968}$$

Guess 4   3rd letters

$$\frac{1}{N(N-1)} \quad \sum l_i(l_i-1) =$$

$8 \times 7 + 2 + 3 \times 2 + 4 \times 3 + 3 \times 2 + 6 \times 5 + 2 + 5 \times 4 + 5 \times 4$

$8 \times 7 + 2 + 3 \times 2 + 4 \times 3 + 3 \times 2 + 5 \times 4 + 5 \times 4 + 4 \times 3 + 2 + 7 \times 6$

$3 \times 2 + 3 \times 2 + 3 \times 2 + 5 \times 4 + 5 \times 4 + 4 \times 3 + 2 + 7 \times 6$

4×3

$$\nearrow \frac{286600}{6006} \quad = 0.0999$$

3rd   5th letter

$4 \times 3 + 2 + 3 \times 2 + 6 \times 5 + 2 + 5 \times 4 + 2 + 5 \times 4 + 2 + 2$

$+ 2 + 4 \times 3 + 2 + 5 \times 4 + 2 + 3 \times 2 + 5 \times 4 + 2 + 3 \times 2$

$= 170$

$N = 74$

$N-1 = 73$

$N \cdot N - 1 = 5402$

$I \cdot C = 0.03141$

According to 3 I.c calculate the winner is Guen of key word 5th