Decoding Procedure

Ted Kaczynski

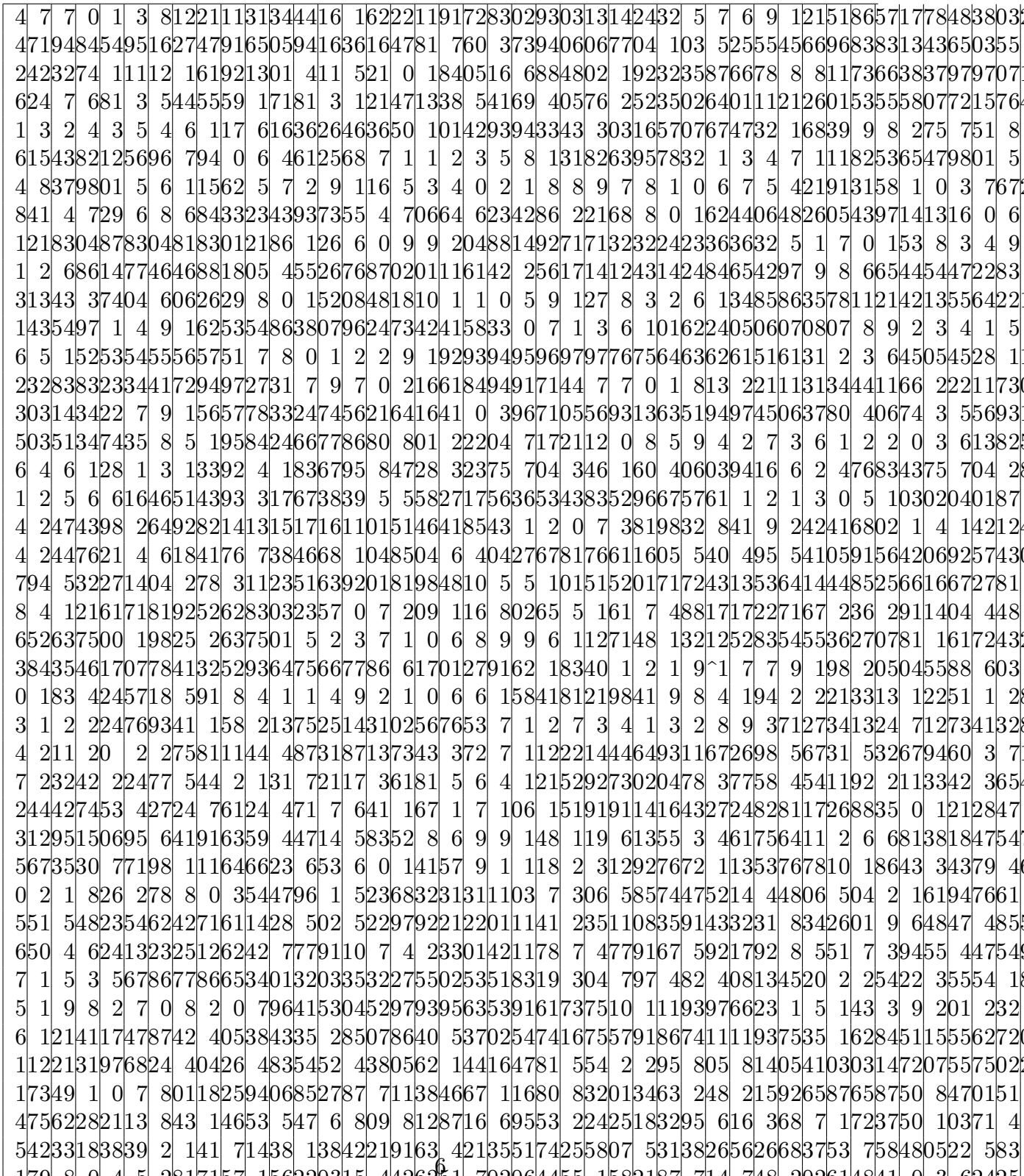
Contents

Code 1

List of meanings

0	=		FOR
1	=		BE (all present tense forms, including am, is,are, etc.)
2	=		BE (all past tense forms)
3	=		BE (future tense, i.e., will be)
4	=		THE
5	=		A or AN
6	=		HAVE (all present tense forms)
7	=		HAVE (all past tense forms, i.e. had)
8	=		HAVE (future tense)
9	=		ED, or, when tagged onto the end of any verb, indicates the past tense, even if the past tense of that verb is not indicated by 11ed11 in normal English.
10	=		tagged onto the end of any verb indicates the future tense of that verb.
11	=		ING
12	=		ER
13	=		LY
14	=		TION
15	=		THERE
16	=		THEN
17	=		AND
18	=		BUT
19	=		OR
20	=		TO
21	=		FROM
22	=		TOWARD
23	=		OF
24	=		IN
25	=	4	OUT
26	=		NO
27	=		BIG
28	=		SMALL
29	=		I, ME, MINE, MY
30	=		YOU, YOUR, YOURS
31	=		HE, SHE, IT, HIM, HER,

Cypher



Decoding Procedure

for code used in some of my journals

The coded message will consist of a sequence of numbers, ranging from 0 to 99. Spaces, like gaps between words, may occur in the sequence; but the spaces do not actually represent gaps between words; they are introduced only to mislead anyone trying to break the code.

The meaning of a given number will depend on its position in the sequence; hence the following remarks are important. In a given series of writings, it may be that only a small part of the material is in code – the rest will be in ordinary English. For decoding purposes, the English passages are simply ignored; all of the coded passages are regarded as forming a single sequence. (See example below.) Such a sequence will hereinafter be referred to as a coded section. All the coded passages that appear in any one notebook are to be treated as£ single coded section. In any bundle of consecutively numbered *sheets of paper, all coded passages are to be treated as single coded section.* But when you shift from one notebook to another (or from one bundle of sheets to another) you begin a new coded section.

To decode any coded section, proceed as follows.

1. Circle the third number that appears in the section; this number has a special significance.

2. Delete all punctuation marks; these have no meaning and are introduced only to confuse code-breakers.

3. Delete all of the numbers from 90 through 99 (inclusive) wherever they appear. These, too, are meaningless and are introduced only for confusion.

4. We shall describe as follows a sequence of numbers, which we shall call the *unscramblingsequence* .

Find the sheet which is marked "Code numbers" on the back. The front of this sheet bears a rectangular array of numbers. Set this sheet in front of you so that the numbers are shown right-side-up.

The numbers are in rows running from left to right. Refer to the number that you circled in Step 1. Starting at the top of the sheet, count down until you reach the row that corresponds to the circled number; for instance, if the circled number is 5, you go to the fifth row from the top.

4(a). Now delete the circled number from the section you are decoding.

4(b). The first number of the unscrambling sequence is the number at the left end of the row that you have gone to. The rest of the unscrambling sequence is obtained by reading the row from left to right; then read the next row from left to right; then the next row, etc. In other words, you read off the numbers in the same order that you

read the words in a book. When you reach the end of the page, go to the upper right hand corner of the sheet and read down the column. Then take the next column to the left and read down that; then the next column, and so forth until the page is finished. then go to the upper left hand corner and read along the diagonals from left to right and down to up. When the page is finished, go to the upper right hand corner and read along the diagonals from left to right and up to down. When all that is finished, start again at the upper left hand corner and again read as you read a book. Thus the cycle will repeat itself.

Diagrams

ORDER OF THE UNSCRAMBLING SEQUENCE
(Assume Circled number is 5)

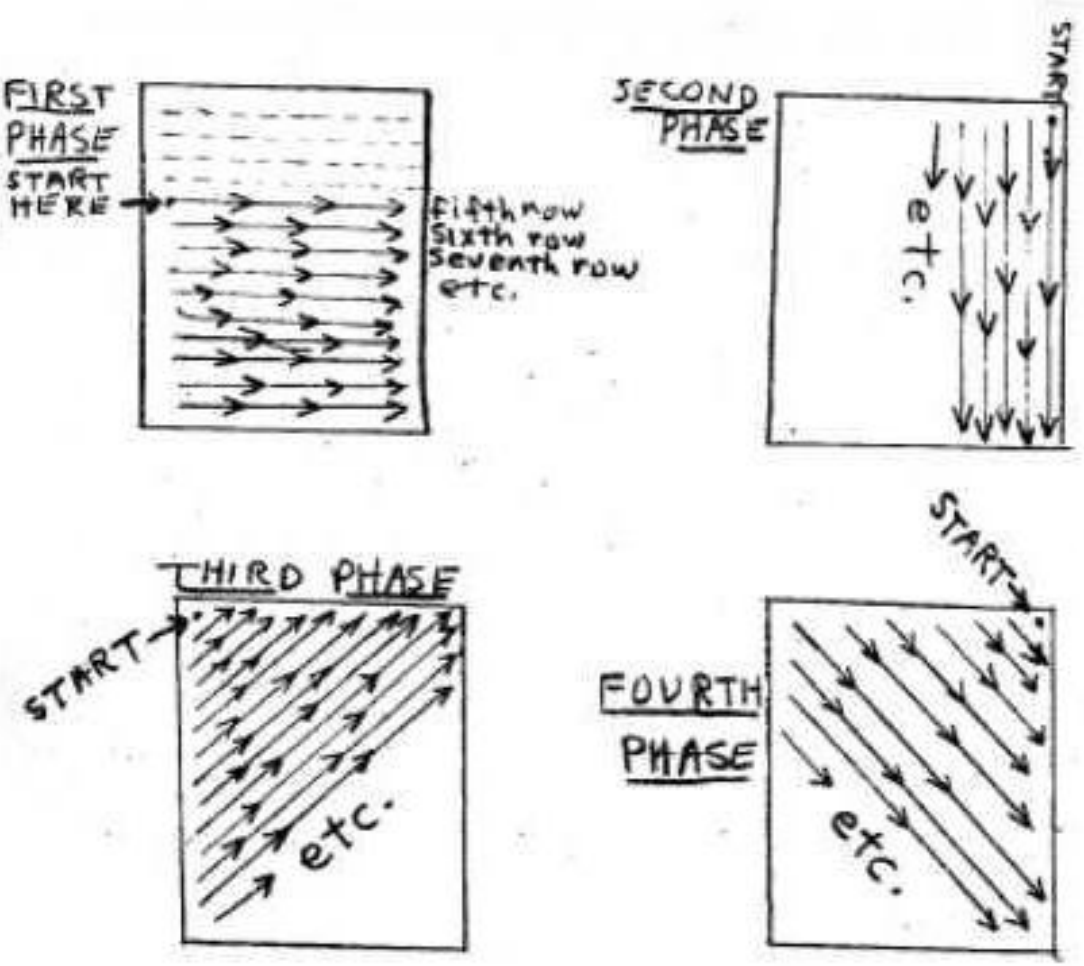
4(c). Now to proceed with the decoding. After making all the deletions described above from our coded section, we are left with a sequence of numbers that constitutes a coded message. To the first number of this given sequence, add the first number of the unscrambling sequence; to the second number of the given sequence, add the second number of the unscrambling sequence; to the third number of the given sequence, add the third number of the unscrambling sequence; and so on down the line.

Whenever the addition gives a number greater than 89, subtract 90, so that you end up with a number between 0 and 89. (See example.)

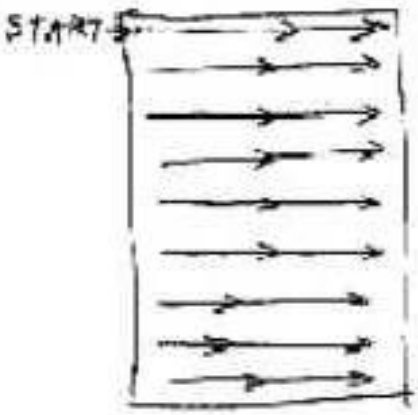
5. Step 4(c) gives us a new sequence of numbers. For each of these numbers, substitute the letter or letters given in the *list of meanings.*

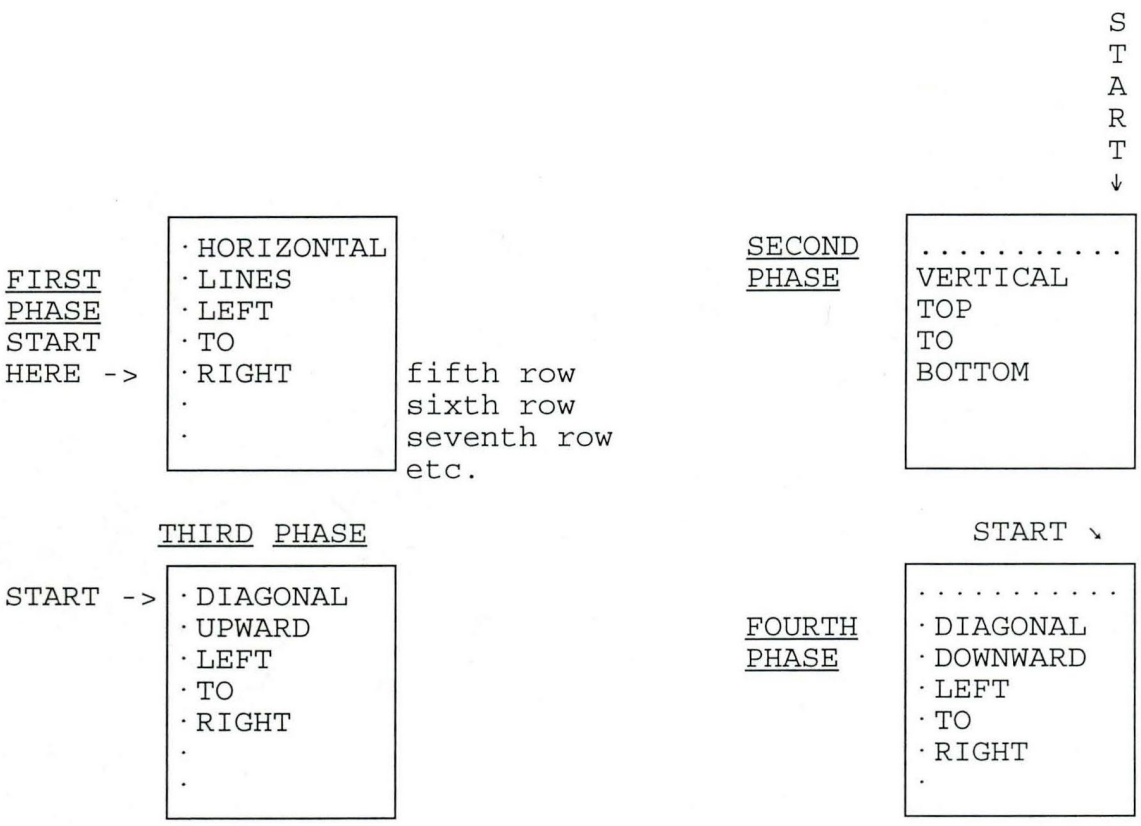
6. Remarks: "Word Spacer" of course indicates the separation between 2 words. Two different numbers are used as word-spacers, to confuse would-be code-breakers. Also to confuse codebreakers: sometimes words are permitted to run together, without any spacer between them; sometimes words are intentionally misspelled; sometimes foreign words are used; and sometimes meaningless nonsense words are included.

Numbers marked "delete" on the list of meanings are to be crossed off as meaningless. *(After* the unscrambling sequence has been applied.)



Return to First phase.




START ↓
FIRST PHASE START HERE ->
· HORIZONTAL
· LINES
· LEFT
· TO
· RIGHT
·
·
fifth row
sixth row
seventh row
etc.
SECOND PHASE
.....
VERTICAL
TOP
TO
BOTTOM
THIRD PHASE
START ->
· DIAGONAL
· UPWARD
· LEFT
· TO
· RIGHT
·
·
START ↘
.....
FOURTH PHASE
· DIAGONAL
· DOWNWARD
· LEFT
· TO
· RIGHT
·

Example

66, 54, 7, 91, 73, 83 , 63, 40, 55, 32, 74,
44 , 27, 22 , 47, 48, 88, 27. 54, 98, 64, 56 —
63, 56, 60, 48, 24 , 27, 24. Outside the
CTA Station, 4, 90, 32, 21, 41, 34, 22, 14, 14 /
40, 53, 37, 45, 60, 29, 53, 81,
59, 8, 47, 66, 24, 25, 25, 64, 14, 34, 20, 5, 86,
28, 61, 38, 73 56, 25, 61, 8, 29, 36, 31, 73, 26,
29, 31, 16, 68, 3 , 78, 86, 3 , 85, 27
18, 21, 33, 5, 34, 32, 17, 15, 86, 16, 45, 24, 88, 47,
20, 13, 26, 32 / 51, 27, 31, 24, 25, 52, 41.
86, 1, 46, 34, 49, 9, 33, 15, 27, 38, 27,
27, 6, 26, 41, 4 6, 4 2, 31, 50, 44, 63, 39, 61, 86, 63,
72, 24, 74, 82, 75 , 60, 58, 19, 14, 64, 73,
12, 34, 51, 47 , 68, 7, , 84, 76,
19, 32, 70, 83 , 59, 73, 78, 16, 49 43, 49, 4,
46, 76, 80, 50, 1, 30, 12, 17, 46, 10, 12, 10, 63, 29,
67, 48, 49, 44, 19. But yesterday I ate too
much. Bla Bla Bla... 9, 38, 52, 66,
32, 55, 56, 65, 99, 71, 15, 41, 26, 80, 36, 54, 72,
57, 9, 88, 74, 36, 42, 28, 27, 26, 19, 67, 68,
12, 75, 6, 12, 39, 38, 49, 68, 35, 37, 87, 84, 84, 54,
56, 63, 61, 88, 26, 57, 64, 65, 32, 35,
39, 53, 23, 81, 16, 41, 26, 11, 76, 56.

To decode the foregoing: First we circle the third number, delete all passages in ordinary English, delete all punctuation marks and all numbers from 90 through 99. Marking the position of the deleted English passages with ‖, we now have:

65, 54, (7), 73, 83, 63, 40, 55, 32, 74, 44, 27, 22, 47, 48, 88, 27, 54, 64, 56, 63, 56, 60, 48, 24, 27, 24, ‖, 4, 90, 32, 21, 41, 34, 22, 14, 14, 40, 53, 37, 45, 60, 29, 53, 81, 59, 8, 47, 66, 24, 25, 25, 64, 14, 34, 20, 5, 86, 28, 61, 38, 73, 56, 25, 61, 8, 29, 36, 31, 73, 26, 29, 31, 16, 68, 3, 78, 86, 3, 85, 27, 18, 21, 33, 5, 34, 32, 17, 15, 86, 16, 45, 24, 88, 47, 70, 20, 13, 26, 32, 51, 27, 31, 24, 25, 52, 41, 86, 1, 46, 34, 49, 9, 33, 15, 27, 38, 27, 27, 6, 26, 41, 46, 42, 31, 50, 44, 63, 39, 61, 86, 63, 72, 24 74, 82, 75, 60, 58, 19, 14, 64, 73, 12, 34, 51, 47, 68, 7, 84, 76, 19, 32, 70, 83, 59, 73, 78, 16, 49, 43, 49, 4, 46, 76, 80, 50, 1, 30, 12, 17, 46 10, 12, 10, 63, 29, 67, 48, 49, 44, 19, ‖, 9, 38, 52, 66, 32, 55, 56, 65, 71, 15, 41, 26, 80, 36, 54, 72, 57, 9, 88, 74, 36, 42, 28, 27, 26, 19 67, 68, 12, 75, 6, 12, 39, 38, 49, 68, 35, 37, 87, 84, 84, 54, 56, 63, 61, 88, 26, 57, 64, 65, 32, 35, 39, 53, 23, 81, 16, 41, 26, 11, 76, 56.

Since 7 is circled, the unscrambling sequence starts on the 7th row of the sheet of code numbers. We now cross off this number 7. Next, we write the first few lines of the coded section with the corresponding numbers of the unscrambling sequence

underneath for convenience in adding. Performing the additions and referring to the list of meanings, we get this:

66, 4 70 Y MY	54, 83 137 -90 47 E G	73, 79 152 -90 62 S O	83, 80 163 -90 73	63, 1 64 T	40, 5 45 E	55, 6 61 R	32, 11 43 D	74, 56 130 -90 40 A	44, 2 46 E	27, 5 32 /	22, 7 29 I	47, 2 49	48 9 57

88, 11 9 PAST TENSE SHE IT	27, 6 33 / ‖	54, 5 59 Q ER	64, 3 67 V /	56, 4 60 R FROM	63, 0 63 S	56, 2 58 P B	60, 1 61 R	48, 8 56 N	24, 8 32 /	27, 9 36 ?	24, 7 31 HE	‖	4, 8 12	32, 1 33	21, 0 21	41, 6 47	34 7 41

27, 5 32 /	14, 42 56 N	14, 49 33 /	40, 43 53 K	53, 15 68 W	37, 8 45 E	45, 1 46 E	60, 0 60 R	29, 3 32 /	53, 76 39 A	81, 72 63 S	59 84 53 K	8, 1 9 ED	47, 4 51 I	66, 72 48 F	24 9 33 /

As mentioned in the instructions, an occasional nonsense word is to be expected, but here the words before and after the nonsense do not fit together so as to make sense, so something is wrong. Having checked our decoding work and found it correct, we conclude that the person who encoded the message made some error. Now, if a letter has been unintentionally omitted in the coded message, that would throw the

unscrambling sequence out of phase with the coded section. By experimenting, we find that this has actually happened, and we correct it:

66	54	73	83	63	40	55	32	74	44	27	22	47
4	83	79	80	1	5	6	11	56	2	5	7	2
70	47	62	73	64	45	61	43	40	46	32	29	49
Y	E	S		T	E	R	D	A	E	/	I	G

48	88	27	?	54	64	56	63	56	60	48	24	27	24
9	1	6	5	3	4	0	2	1	8	8	9	7	8
57	9	33	?	57	68	56	65	57	68	56	33	34	32
O	PAST												
TENSE	/		O	W	N	T	O	W	N	/	.	/	

4	32	21	41	34	22	14	14	40	53	37	45	60	29	53
1	0	6	7	5	42	19	13	15	8	1	0	3	76	72
5	32	27	48	39	64	33	27	55	61	38	45	63	15	35
A														
AN	/	BIG	F	A	T	/	BIG	M	R	)	E	S	THERE	,

The missing letter was evidently D, so the passage translates as: ”YESTERDAY I WENT DOWNTOWN. A BIG FAT. . . ” and then it degenerates into prolonged nonsense. We conjecture that the unscrambling sequence has again gotten out of phase with the coded section. By experimenting, we correct it as follows:

4	32	21	4l	34	22	14	(14) [superfluous - delete]	40	53	37	45	60	29
1 A	0 /	6 BIG	7 F	5 A	42 T	19 /		13 K	15 W	8 E	1 E	0 R	3 /

53	81	59	8	47	66	24	25	25	64	14	34	20	5	86	28
76	72	84	1	4	72	9	6	8	68	43	32	34	39	37	35
39	63	53	9	51	48	33	31	33	42	57	66	54	44	33	63
A	S	K	ED	I	F	/	HE								
SHE IT	/	C	O	U	L	D	/	S							

61	38	73	56	25	61	8	29	36	31	73	26	29	31	16	68
5	4	70	66	4	62	34	28	6	22	16	8	8	0	16	24
66	42	53	32	29	33	42	57	42	53	89	34	37	31	32	2
U	C	K	/	ME											
MY	/	C	O	C	K		.	(	HE						
SHE IT WERE	/	WAS													

3	78	86	3	85	27	18	21	33	5	34	32	17	15	86	16
40	64	82	60	54	39	71	41	31	6	0	6	12	18	30	48
43	52	78	63	49	66	89	62	64	11	34	38	29	33	26	64
D	J		S	G	U		S	T	ING	.	)	I			
MY	/	NO	T												

Correcting an obvious error, we translate this as "|| A BIG FAT QUEER ASKED IF HE COULD SUCK MY COCK. (HE WAS DISGUSTING.)
I NOT ..."

Continuing in the same way, we get:

17	15	86	16	45	24	88	47	70	20	13	26	32	51	27
12	18	30	48	78	30	48	18	30	12	18	6	12	6	6
29	33	26	64	33	54	46	65	10	32	31	32	44	57	33
I	/	NO	T	/	L	E	T	FUTURE						
TENSE		HIM												
HER														
IT	/	D	O	/										

31	24	25	52	41	86	1	46	34	49	9	33	15	27	38
0	9	9	20	48	81	49	27	17	13	23	22	42	33	63
31	33	34	72	89	77	50	73	51	62	32	55	57	60	11
IT														
HIM														
HER	/	.			TH	H		I	S	/	M	O	R	ING

27	27	6	26	41	46	42	31	50	44	63	39	61	86
63	2	5	1	7	0	15	3	8	3	4	9	1	2
0	29	11	27	48	46	57	34	58	47	67	48	62	88
FOR	ME												
MY	ING	BIG	F	E	O	.	P	E	V	F	S	THAT	

Correcting one obvious error, we translate this as: "I WILL NOT LET HIM DO IT. THIS ..." and prolonged nonsense. Finding by experiment that another letter has been left out, putting the unscrambling sequence out of phase, we correct this as:

86	1	46	34	49	9	33	15	27	?	38	27	27	6	26	41
81	49	27	17	13	23	22	42	33	63	63	2	5	1	7	0
77	50	73	51	62	32	55	57	60	?	11	29	32	7	33	41
TH	H		I	S	/	M	O	R	..	ING	I				
MY	/	HAD	/	B											

46	42	31	50	44	63	39	61	86	63	72	24	74	82	75	60	58
15	3	8	3	4	9	1	2	68	61	47	74	64	68	81	80	5
61	45	39	53	48	72	40	63	64	34	29	8	48	60	66	50	63
R	E	A	K	F		A	S	T	.	I						
MY	WILL															
HAV	E	R	U	H	S											

19	14	64	73	12	34	51	47	68	7	84	76	19	32	70	83	59
45	52	67	68	70	20	11	16	14	2	25	61	71	4124	31	42	
64	66	41	51	82	54	62	63	82	9	19	47	0	73	4	24	11
T	U	B	I	ETO	NA	S	S	ETO	NA	OR	E	FOR		THE	IN	ING

73	78	16	49	43	49	4	46	76	80	50	1	30	12	17	46	10	12
48	46	54	29	7	9	8	66	54	45	44	72	28	3	31	34	3	37
31	34	70	78	50	58	12	22	40	35	4	73	58	15	48	80	13	49
HE																	
SHE	.	Y		H	P	ER	TOWA	ARD	,	THE		P	THER	RE	PLOD	Y	G

The missing letter is evidently N, so this translates as: ”THIS MORNING I HAD BREAK¬FAST. I WILL HAVE | and again we degenerate into nonsense. By experimenting, we find that the encoder has omitted a number of the unscrambling sequence, again throwing things out of phase. Correcting, we get:

72	24		74	82	75	60	58	19	14	?	64	73	12	34
47	74		64	68	81	80	5	45	52	67	68	70	20	11
29	8		48	60	66	50	63	64	66	?	42	53	32	45
I	WILLHAVE		F	R	U	H	S	T	U		C	K	/	E

51	47	68	7	84	76	19	32	70	83	59	73	78	16	49
16	14	2	25	61	71	41	24	31	42	48	46	54	29	7
67	61	70	32	55	57	60	56	11	35	17	29	42	45	56
V	R	Y	/	M	0	R	N	ING	,	AND	I			
MY	C													
~	E	N												

43	49	4	46	76	80	50	1	30	12	17	46	10	12	10
9	8	66	54	45	44	72	28	3	31	34	3	37	40	4
52	57	70	10	31	34	32	29	33	43	51	49	47	52	14
J	O	Y	FUTURE											
TENSHEIM														
HER														
IT	.	/	I											
MY	/	D	I	G	E	J								
~	TION													

63	29	67	48	49	44	19	‖	9	38	52	66	32	55	
60	62	62	9	8	0	15	‖	20	84	81	81	0	1	
33	1	39	57	57	A	44	34	29	32	43	57	32	56	
/	IS	A												
~	O	O	D	.	‖	I								
MY	/	D	O	/	N									

If the decoder knows that ”Fruhstuck” is German for breakfast, and if he observes that with each of the 3 letters underlined with ˜ the encoder has made an error in the first digit of the number, he can now read: ”I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD. || I DO ...”

Continuing in the same way, we get:

‖	9	38	52	66	32	55	56	65	71	15	41	26	80
‖	20	84	81	81	0	1	1	0	5	9	12	7	8
	29	32	43	57	32	56	57	65	76	24	53	33	88
‖	I	/	D	O	/	N	O	T	TH	IN	K	/	THAT

36	54	72	57	9	88	74	36		42	28	27	26	19	67	68
3	2	6	13	48	58	63	57		81	12	14	21	35	56	42
39	56	78	70	57	56	47	3		33	40	41	47	54	33	20
A	N		Y	O	N	E	WILL	BE	/	A	B	E	L	/	TO

12	75	6	12	39	38	49	68	35	37	87	84	84	54
21	14	35	49	7	1	4	9	16	25	35	48	63	80
33	89	41	61	46	39	53	77	51	62	32	42	57	44
/		B	R	E	A	K	TH	I	S	/	C	O	D

56	63	61	88	26	57	64	65	32	35	39	53
79	62	47	34	24	15	83	3	0	7	1	3
45	35	18	32	50	72	57	68	32	42	40	56
E	,	BUT	/	H		O	W	/	C	A	N

23	81	16	41	26	11	76	56
6	10	16	22	40	50	60	70
29	1	32	63	66	61	46	36
I							
MY	BE						
IS							
etc.	/	S	U	R	E	?	

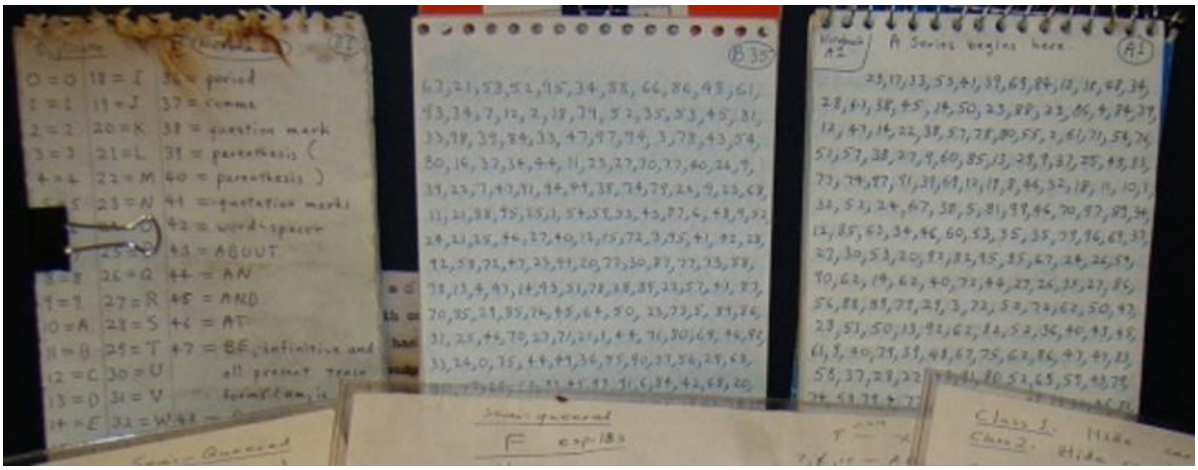
Putting it all together, our coded section now translates as: "YESTERDAY I WENT DOWNTOWN.‖ A BIG FAT QUEER ASKED IF HE COULD SUCK MY COCK. (HE WAS DISGUSTING.) I WILL NOT LET HIM DO IT. THIS MORNING I HAD BREAKFAST. I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD. ‖ I DO NOT THINK THAT ANYONE WILL BE ABLE TO BREAK THIS CODE, BUT HOW CAN I BE SURE?"

Now we re-insert the previously deleted passages of ordinary English at the places marked || , to get the complete message:

"YESTERDAY I WENT DOWNTOWN. OUTSIDE THE OTA STATION, A BIG FAT QUEER ASKED IF HE COULD SUCK MY COCK. (HE WAS DISGUSTING.) I WILL NOT LET HIM DO IT. THIS MORNING I HAD BREAKFAST. I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD. BUT YESTERDAY I ATE TOO MUCH. BLA BLA BLA ... I DO NOT THINK THAT ANYONE WILL BE ABLE TO BREAK THIS CODE, BUT HOW CAN I BE SURE?"

This example was riddled with errors, but that is good, because it illustrates the process of correcting the problem when the unscrambling sequence gets out of phase with the coded section. Hopefully, most messages to be decoded will not have so many errors. But, as we have just seen, it should be possible (with effort) to decode the section even when many errors appear. If serious problems arise, a mathematical mind should be able to help – consult the math dept, of some university.

Code 2



List of Meanings

0	=	0
1	=	1
2	=	2
3	=	3
4	=	4
5	=	5
6	=	6
7	=	7
8	=	8
9	=	9
10	=	A
11	=	B
12	=	C
13	=	D
14	=	E
15	=	F
16	=	G
17	=	H
18	=	I
19	=	J
20	=	K
21	=	L
22	=	M
23	=	N
24	=	O
25	=	P
26	=	Q
27	=	R
28	=	S
29	=	T
30	=	U
31	=	V
32	=	W
33	=	X
34	=	Y
35	=	Z
36	=	period
37	=	comma
38	=	question mark
39	=	parenthesis (
40	=	parenthesis)
41	=	quotaatiion marks
42	=	word-spacer
43	=	ABOUT
44	=	AN
45	=	AND
46	=	AT
47	=	BE, infinitive and all

Cypher

Notebook AZ

A1

A Series begins here.
23, 17, 33, ...

Pad

B Series ...

B1

...

B35

67, 21, 53 ...

Appendix

Original FBI Transcript

Other Images

LIST OF MEANINGS

0 = FOR
1 = BE (all present tense forms, including am, is, are, etc.)
2 = BE (all past tense forms)
3 = BE (future tense, i.e., will be)
4 = THE
5 = A or AN
6 = HAVE (all present tense forms)
7 = HAVE (all past tense forms, i.e. had)
8 = HAVE (future tense)
9 = ED, or, when tagged onto the end of any verb, indicates the past tense, even if the past tense of that verb is not indicated by "ed" in normal English.
10 tagged onto the end of any verb indicates the future tense of that verb.

11 = ING
12 = ER
13 = LY
14 = TION
15 = THERE
16 = THEN
17 = AND
18 = BUT
19 = OR
20 = TO
21 = FROM
22 = TOWARD
23 = OF
24 = IN
25 = OUT
26 = NO
27 = BIG
28 = SMALL
29 = I, ME, MINE, MY
30 = YOU, YOUR, YOURS
31 = HE, SHE, IT, HIM, HER, HIS, HERS, ITS.

32 = WORD-SPACER
33 = WORD-SPACER
34 = PERIOD
35 = COMMA
36 = QUESTION MARK
37 = PARENTHESIS (
38 = PARENTHESIS)
39 = A
40 = A
41 = B
42 = C
43 = D
44 = D
45 = E
46 = E
47 = E
48 = F
49 = G
50 = H
51 = I
52 = J
53 = K
54 = L
55 = M
56 = N
57 = O
58 = P
59 = Q

60 = R
61 = R
62 = S
63 = S
64 = T
65 = T
66 = U
67 = V
68 = W
69 = X
70 = Y
71 = Z
72 = delete
73 = delete
74 = CH
75 = SH
76 = TH (UNVOICED)
77 = TH (VOICED)
78 delete
79 = OM
80 = PLOD
81 = ILL
82 = ETONA
83 = " (quotation marks)

84 = WHEN
85 = WHERE
86 = WHAT
87 = ST
88 = THAT
89 delete

DECODING PROCEDURE
for code used in some of my journals

The coded message will consist of a sequence of numbers, ranging from 0 to 99. Spaces, like gaps between words, may occur in the sequence; but the spaces do not actually represent gaps between words; they are introduced only to mislead anyone trying to break the code.

The meaning of a given number will depend on its position in the sequence; hence the following remarks are important. In a given series of writings, it may be that only a small part of the material is in code -- the rest will be in ordinary English. For decoding purposes, the English passages are simply ignored; all of the coded passages are regarded as forming a single sequence. (See example below.) Such a sequence will hereinafter be referred to as a coded section. All the coded passages that appear in any one notebook are to be treated as a single coded section. In any bundle of consecutively numbered sheets of paper, all coded passages are to be treated as a single coded section. But when you shift from one notebook to another (or from one bundle of sheets to another) you begin a new coded section.

To decode any coded section, proceed as follows.

1. Circle the third number that appears in the section; this number has a special significance.

2. Delete all punctuation marks; these have no meaning and are introduced only to confuse code-breakers.

3. Delete all of the numbers from 90 through 99 (inclusive) wherever they appear. These, too, are meaningless and are introduced only for confusion.

4. We shall describe as follows a sequence of numbers, which we shall call the unscrambling sequence.

Find the sheet which is marked "Code numbers" on the back. The front of this sheet bears a rectangular array of numbers. Set this sheet in front of you so that the numbers are shown right-side-up. The numbers are in rows running from left to right. Refer to the number that you circled in Step 1. Starting at the top of the sheet, count down until you reach the row that corresponds to the circled number; for instance, if the circled number is 5, you go to the fifth row from the top.

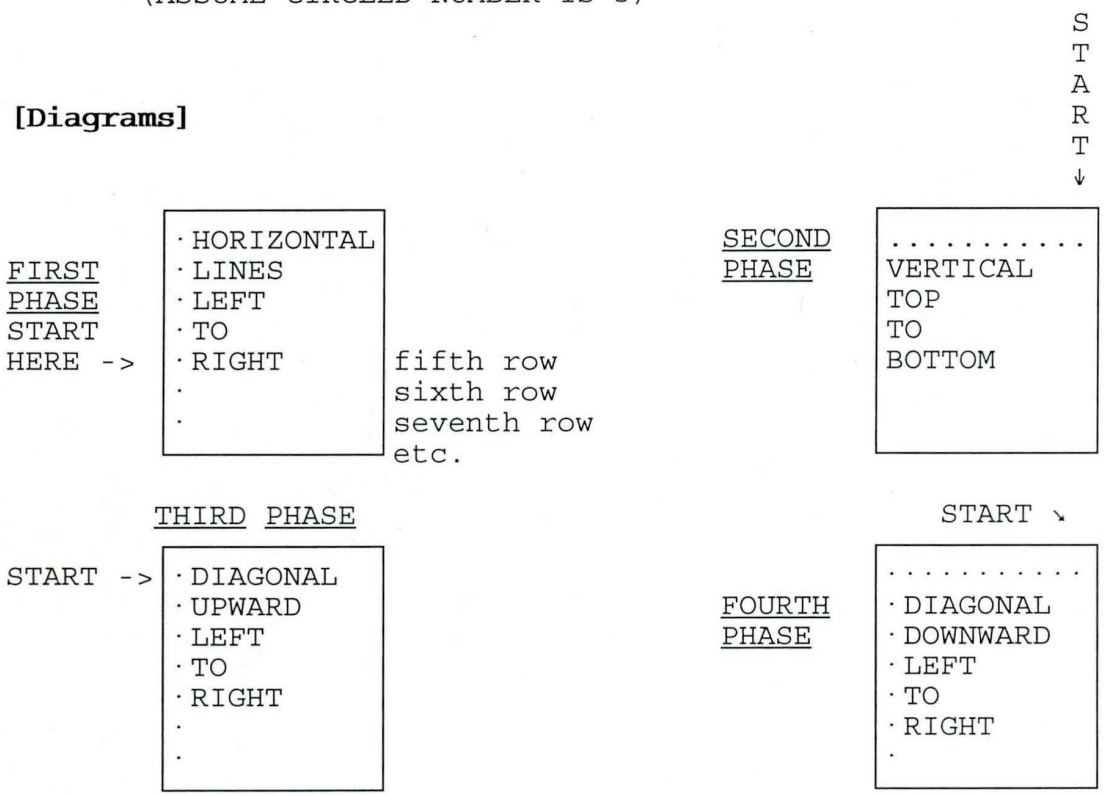
4(a). Now delete the circled number from the section you are decoding.

4(b). The first number of the unscrambling sequence is the number at the left end of the row that you have gone to. The rest of the unscrambling sequence is obtained by reading the row from left to right; then read the next row from left to right; then the next row, etc. In other words, you read off the numbers in the same order that you read the words in a book. When you reach the end of the page,

go to the upper right hand corner of the sheet and read down the column. Then take the next column to the left and read down that; then the next column, and so forth until the page is finished. then go to the upper left hand corner and read along the diagonals from left to right and down to up. When the page is finished, go to the upper right hand corner and read along the diagonals from left to right and up to down. When all that is finished, start again at the upper left hand corner and again read as you read a book. Thus the cycle will repeat itself.

ORDER OF THE UNSCRAMBLING SEQUENCE:
(ASSUME CIRCLED NUMBER IS 5)

[Diagrams]



4(c). Now to proceed with the decoding. After making all the deletions described above from our coded section, we are left with a sequence of numbers that constitutes a coded message. To the first number of this given sequence, add the first number of the unscrambling sequence; to the second number of the given sequence, add the second number of the unscrambling sequence; to the third number of the given sequence, add the third number of the unscrambling sequence; and so on down the line. Whenever the addition gives a number greater than 89, subtract 90, so that you end up with a number between 0 and 89. (See example.)

5. Step 4(c) gives us a new sequence of numbers. For each of these numbers, substitute the letter or letters given in the list of meanings.

6. Remarks: "Word Spacer" of course indicates the separation between 2 words. Two different numbers are used as word-spacers, to confuse would-be code-breakers. Also to confuse code-breakers: sometimes words are permitted to run together, without any spacer between them; sometimes words are

intentionally mis-spelled; sometimes
foreign words are used; and sometimes
meaningless nonsense words are included.
Numbers marked "delete" on the list
of meanings are to be crossed off as
meaningless. (After the unscrambling sequence
has been applied.)

E X A M P L E

66, 54, 7, 91, 73, 83, 63, 40, 55, 32, 74,
44, 27, 22, 47, 48, 88, 27. 54, 98, 64, 56 --
63, 56, 60, 48, 24, 27, 24. Outside the
CTA Station, 4, 90, 32, 21, 41, 34, 22, 14, 14,
40, 53, 37, 45, 60, 29, 53, 81,
59, 8, 47, 66, 24, 25, 25, 64, 14, 34, 20, 5, 86,
28, 61, 38, 73. 56, 25, 61, 8, 29, 36, 31, 73, 26,
29, 31, 16, 68, 3, 78, 86, 3, 85, 27
18, 21, 33, 5, 34, 32, 17, 15, 86, 16, 45, 24, 88, 47, 70,
20, 13, 26, 32, 51, 27, 31, 24, 25, 52, 41.
86, 1, 46, 34, 49, 9, 33, 15, 27, 38, 27,
27, 6, 26, 41, 46, 42, 31, 50, 44, 63, 39, 61, 86, 63,
72, 24, 74, 82, 75, 60, 58, 19, 14, 64, 73,
12, 34, 51, 47, 68, 7,, 84, 76,
19, 32, 70, 83, 59, 73, 78, 16, 49. 43, 49, 4,

(6)

46, 76, 80, 50, 1, 30, 12, 17, 46, 10, 12, 10, 63, 29,
67, 48, 49, 44, 19. But yesterday I ate too
much. Bla Bla Bla.... 9, 38, 52, 66,
32, 55, 56, 65, 99, 71, 15, 41, 26, 80, 36, 54, 72,
57, 9, 88, 74, 36, 42, 28, 27, 26, 19, 67, 68,
12, 75, 6, 12, 39, 38, 49, 68, 35, 37, 87, 84, 84, 54,
56, 63, 61, 88, 26, 57, 64, 65, 32, 35,
39, 53, 23, 81, 16, 41, 26, 11, 76, 56.

To decode the foregoing: First we circle the
third number, delete all passages in ordinary
English, delete all punctuation marks and all
numbers from 90 through 99. Marking the
position of the deleted English passages
with ‖, we now have:
65, 54, (7), 73, 83, 63, 40, 55, 32, 74, 44, 27, 22, 47, 48,
88, 27, 54, 64, 56, 63, 56, 60, 48, 24, 27, 24, ‖ 4, 32, 21,
41, 34, 22, 14, 14, 40, 53, 37, 45, 60, 29, 53, 81, 59, 8, 47,
66, 24, 25, 25, 64, 14, 34, 20, 5, 86, 28, 61, 38, 73, 56, 25, 61,
8, 29, 36, 31, 73, 26, 29, 31, 16, 68, 3, 78, 86, 3, 85, 27, 18,
21, 33, 5, 34, 32, 17, 15, 86, 16, 45, 24, 88, 47, 70, 20, 13, 26,
32, 51, 27, 31, 24, 25, 52, 41, 86, 1, 46, 34, 49, 9, 33, 15, 27,
38, 27, 27, 6, 26, 41, 46, 42, 31, 50, 44, 63, 39, 61, 86, 63, 72, 24
74, 82, 75, 60, 58, 19, 14, 64, 73, 12, 34, 51, 47, 68, 7, 84, 76, 19,
32, 70,83, 59,73, 78,16, 49,43, 49,4, 46,76, 80,50, 1,30, 12, 17, 46
10, 12, 10, 63, 29, 67, 48, 49, 44, 19, ‖ 9, 38, 52, 66, 32, 55, 56,
65, 71, 15, 41, 26, 80, 36, 54,72, 57,9, 88, 74, 36, 42, 28, 27, 26, 19
67, 68,12, 75, 6,12, 39, 38, 49, 68, 35, 37,87, 84, 84, 54, 56, 63, 61,
88, 26, 57, 64, 65, 32, 35, 39, 53, 23, 81, 16, 41, 26, 11, 76, 56.

Since 7 is circled, the unscrambling sequence starts on the 7th row of the sheet of code numbers. We now cross off this number 7. Next, we write the first few lines of the coded section with the corresponding numbers of the unscrambling sequence underneath for convenience in adding. Performing the additions and referring to the list of meanings, we get this:

66,	54,	73,	83,	63,	40,	55,	32,	74,	44,	27,	22,	47,	48
4	83	79	80	1	5	6	11	56	2	5	7	2	9
70	137	152	163	64	45	61	43	130	46	32	29	49	57
	-90	-90	-90					-90					
	47	62	73					40			I		
Y	E	S		T	E	R	D	A	E	/	MY	G	O

88,		27,	54,	64,	56,	63,	56,	60,	48,	24,	27,	24,	‖	4,	32,	21,	41,	34
11		6	5	3	4	0	2	1	8	8	9	7		8	1	0	6	7
9		33	59	67	60	63	58	61	56	32	36	31	‖	12	33	21	47	41
												HE						
PAST												SHE						
TENSE	/	Q	V	R	S	P	R	N	/	?		IT	‖	ER	/	FROM	E	B

27,	14,	14,	40,	53,	37,	45,	60,	29,	53,	81,	59,	8,	47,	66,	24
5	42	49	43	15	8	1	0	3	76	72	84	1	4	72	9
32	56	33	53	68	45	46	60	32	39	63	53	9	51	48	33
/	N	/	K	W	E	E	R	/	A	S	K	ED	I	F	/

As mentioned in the instructions, an occasional nonsense word is to be expected, but here the words before and after the nonsense do not fit together so as to make sense, so something is wrong. Having checked our decoding work and found it correct, we conclude that the person who encoded the message made some error. Now, if a letter has been unintentionally omitted in the coded message, that would throw the unscrambling sequence out of phase with the coded section. By experimenting, we find that this has actually happened, and we correct it:

```
66 54 73 83 63 40 55 32 74 44 27 22 47
 4 83 79 80  1  5  6 11 56  2  5  7  2
70 47 62 73 64 45 61 43 40 46 32 29 49
Y  E  S     T  E  R  D  A  E  /  I  G
```

```
48 88      27  ? 54 64 56 63 56 60 48 24 27 24
 9  1       6  5  3  4  0  2  1  8  8  9  7  8
57  9      33  ? 57 68 56 65 57 68 56 33 34 32
   PAST
O  TENSE  /     O  W  N  T  O  W  N  /  .  /
```

```
‖  4 32 21  41 34 22 14 14  40 53 37 45 60 29     53
  1  0  6   7  5 42 19 13  15  8  1  0  3 76     72
  5 32 27  48 39 64 33 27  55 61 38 45 63 15     35
 A
‖AN /  BIG F  A  T  /  BIG M  R  )  E  S  THERE ,
```

The missing letter was evidently D, so the passage translates as: "YESTERDAY I WENT DOWNTOWN. ‖ A BIG FAT... " and then it degenerates into prolonged nonsense. We conjecture that the unscrambling sequence has again gotten out of phase with the coded section. By experimenting, we correct it as follows:

```
                                  ↙ superfluous - delete
‖  4 32 21  41 34 22 14 (14) 40 53 37 45 60 29
‖  1  0  6   7  5 42 19      13 15  8  1  0  3
‖A  /  BIG F  A  T  /        K  W  E  E  R  /
```

```
53 81 59  8 47 66 24 25  25 64 14 34 20  5 86 28
76 72 84  1  4 72  9  6   8 68 43 32 34 39 37 35
39 63 53  9 51 48 33 31  33 42 57 66 54 44 33 63
                    HE
                    SHE
A  S  K  ED I  F  /  IT  /  C  O  U  L  D  /  S
```

```
61 38 73 56 25 61  8 29 36 31 73 26 29 31 16 68
 5  4 70 66  4 62 34 28  6 22 16  8  8  0 16 24
66 42 53 32 29 33 42 57 42 53 89 34 37 31 32  2
                                      HE
            ME                        SHE     WAS
U  C  K  / MY  /  C  O  C  K     .  (  IT  /  WERE
```

```
 3 78 86  3 85 27 18 21 33  5  34 32 17 15 86 16
40 64 82 60 54 39 71 41 31  6   0  6 12 18 30 48
43 52 78 63 49 66 89 62 64 11  34 38 29 33 26 64
                                    I
D  J     S  G  U     S  T  ING .  )  MY /  NO T
```

Correcting an obvious error, we translate this as "‖ A BIG FAT QUEER ASKED IF HE COULD

SUCK MY COCK. (HE WAS DISGUSTING.)
I NOT ..."

Continuing in the same way, we get:

```
17 15 86 16 45 24 88 47 70       20 13  26 32 51 27
12 18 30 48 78 30 48 18 30       12 18   6 12  6  6
29 33 26 64 33 54 46 65 10       32 31  32 44 57 33
                                    HIM
                            FUTURE  HER
I  /  NO T  /  L  E  T  TENSE ]  /  IT  /  D  O  /
```

```
31  24 25 52 41 86  1 46 34 49  9 33 15 27 38
 0   9  9 20 48 81 49 27 17 13 23 22 42 33 63
31  33 34 72 89 77 50 73 51 62 32 55 57 60 11
IT
HIM
HER /  .       TH H    I  S  /  M  O  R ING
```

```
27  27  6  26  41 46 42 31 50 44 63 39 61 86
63   2  5   1   7  0 15  3  8  3  4  9  1  2
 0  29 11  27  48 46 57 34 58 47 67 48 62 88
    ME
FOR MY ING BIG F  E  O  .  P  E  V  F  S  THAT
```

Correcting one obvious error, we translate this as:
"I WILL NOT LET HIM DO IT. THIS ..." and
prolonged nonsense. Finding by experiment that another
letter has been left out, putting the unscrambling
sequence out of phase, we correct this as:

```
86  1 46 34 49  9 33 15 27  ? 38  27 27  6  26 41
81 49 27 17 13 23 22 42 33 63 63   2  5  1   7  0
77 50 73 51 62 32 55 57 60  ? 11  29 32  7  33 41
                                   I
TH H    I  S  /  M  O  R  .. ING MY /  HAD /  B
```

```
46 42 31 50 44 63 39 61 86 63 72 24    74 82 75 60 58
15  3  8  3  4  9  1  2 68 61 47 74    64 68 81 80  5
61 45 39 53 48 72 40 63 64 34 29  8    48 60 66 50 63
                              I  WILL
R  E  A  K  F    A  S  T  .  MY HAVE F  R  U  H  S
```

```
19 14 64 73 12    34 51 47 68     7 84 76 19  32 70  83 59
45 52 67 68 70    20 11 16 14     2 25 61 71  41 24  31 42
64 66 41 51 82    54 62 63 82     9 19 47  0  73  4  24 11
T  U  B  I  ETONA L  S  S  ETONA ED OR E  FOR    THE IN ING
```

```
73  78 16 49 43 49  4 46     76 80 50   1 30 12    17 46   10 12
48  46 54 29  7  9  8 66     54 45 44  72 28  3    31 34    3 37
31  34 70 78 50 58 12 22     40 35  4  73 58 15    48 80   13 49
HE
SHE .  Y    H  P  ER TOWARD A  ,  THE   P  THERE F  PLOD LY G
```

The missing letter is evidently N, so this translates as: "THIS MORNING I HAD BREAK-FAST. I WILL HAVE ...", and again we degenerate into nonsense. By experimenting, we find that the encoder has omitted a number of the unscrambling sequence, again throwing things out of phase. Correcting, we get:

72	24			74	82	75	60	58	19	14	?	64	73	12	34
47	74			64	68	81	80	5	45	52	67	68	70	20	11
29	8			48	60	66	50	63	64	66	?	42	53	32	45
I	WILL	HAVE		F	R	U	H	S	T	U		C	K	/	E

51	47	68	7	84	76	19	32	70	83	59	73	78	16	49	
16	14	2	25	61	71	41	24	31	42	48	46	54	29	7	
67	61	70	32	55	57	60	56	11	35	17	29	42	45	56	
											I	C			
V	R	Y	/	M	O	R	N	ING	,	AND	MY	~	E	N	

43	49	4	46		76	80	50	1	30	12	17	46	10	12	10	
9	8	66	54		45	44	72	28	3	31	34	3	37	40	4	
52	57	70	10		31	34	32	29	33	43	51	49	47	52	14	
					HIM											
			FUTURE	]	HER			I						J		
J	O	Y	TENSE	]	IT	.	/	MY	/	D	I	G	E	~	TION	

63	29	67	48	49	44	19	‖	9	38	52	66	32	55	
60	62	62	9	8	0	15	‖	20	84	81	81	0	1	
33	1	39	57	57	44	34		29	32	43	57	32	56	
		A						I						
/	IS	~	O	O	D	.	‖	MY	/	D	O	/	N	

If the decoder knows that "Frühstück" is German for breakfast, and if he observes that with each of the 3 letters underlined with ~ the encoder has made an error in the first digit of the number, he can now read: "I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD.‖ I DO ..."

Continuing in the same way, we get:

```
‖  9 38 52 66 32 55 56 65 71 15 41 26 80
‖ 20 84 81 81  0  1  1  0  5  9 12  7  8
  29 32 43 57 32 56 57 65 76 24 53 33 88
‖ I  /  D  O  /  N  O  T  TH IN K  /  THAT
```

```
36 54 72 57  9 88 74 36       42 28 27 26 19 67 68
 3  2  6 13 48 58 63 57       81 12 14 21 35 56 42
39 56 78 70 57 56 47  3       33 40 41 47 54 33 20
A  N     Y  O  N  E  WILL BE /  A  B  E  L  /  TO
```

```
12 75  6 12 39 38 49 68 35 37 87 84 84 54
21 14 35 49  7  1  4  9 16 25 35 48 63 80
33 89 41 61 46 39 53 77 51 62 32 42 57 44
/     B  R  E  A  K  TH I  S  /  C  O  D
```

```
56 63 61  88 26 57 64 65 32 35 39 53
79 62 47  34 24 15 83  3  0  7  1  3
45 35 18  32 50 72 57 68 32 42 40 56
E  ,  BUT /  H     O  W  /  C  A  N
```

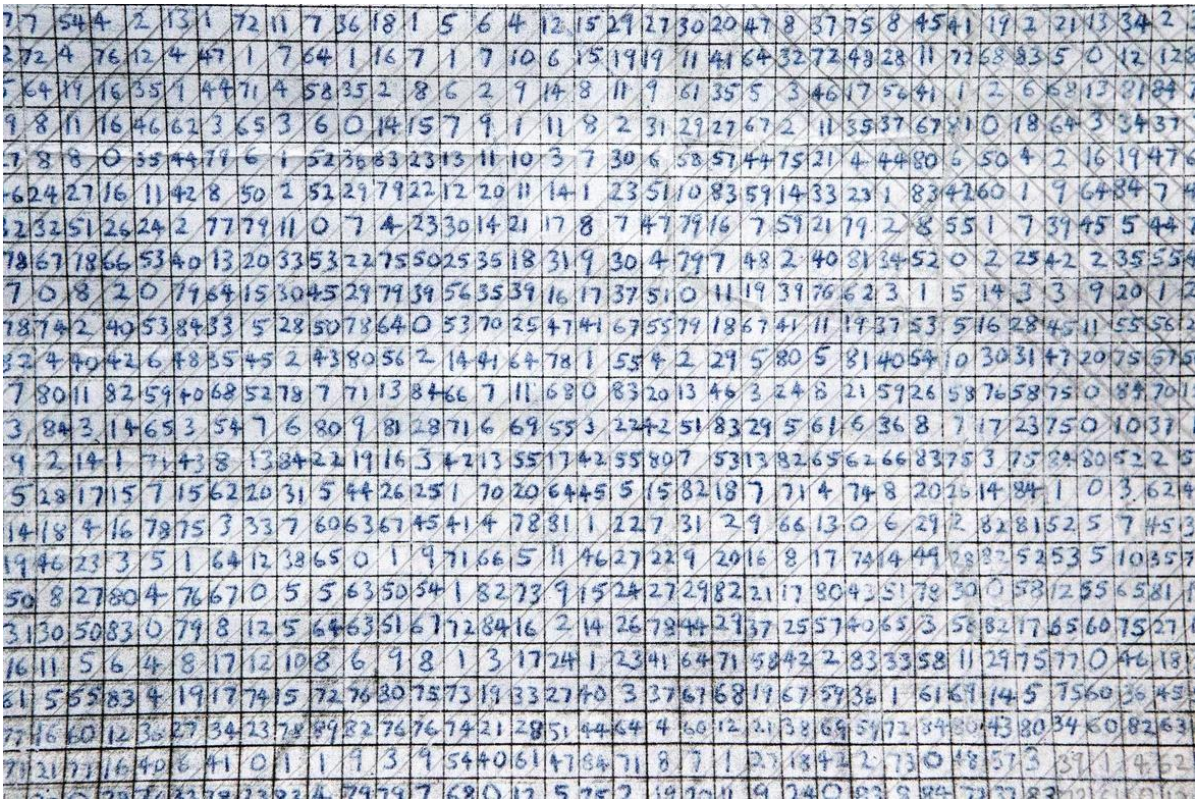
```
23 81   16 41 26 11 76 56
 6 10   16 22 40 50 60 70
29  1   32 63 66 61 46 36
   BE
I  IS
MY etc. /  S  U  R  E  ?
```

Putting it all together, our coded section now translates as: "YESTERDAY I WENT DOWNTOWN.‖ A BIG FAT QUEER ASKED IF HE COULD SUCK MY COCK. (HE WAS DISGUSTING.) I WILL NOT LET HIM DO IT. THIS MORNING I HAD BREAKFAST. I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD.‖ I DO NOT THINK THAT ANYONE WILL BE ABLE TO BREAK THIS CODE, BUT HOW CAN I BE SURE?"

Now we re-insert the previously deleted passages of ordinary English at the places marked ‖, to get the complete message:

"YESTERDAY I WENT DOWNTOWN.
OUTSIDE THE CTA STATION, A BIG FAT QUEER
ASKED IF HE COULD SUCK MY COCK. (HE
WAS DISGUSTING.) I WILL NOT LET HIM
DO IT. THIS MORNING I HAD BREAKFAST.
I WILL HAVE BREAKFAST EVERY
MORNING, AND I WILL ENJOY IT. MY
DIGESTION IS GOOD. BUT YESTERDAY
I ATE TOO MUCH. BLA BLA BLA ....
I DO NOT THINK THAT ANYONE WILL
BE ABLE TO BREAK THIS CODE, BUT
HOW CAN I BE SURE?"

This example was riddled with errors, but that is good, because it illustrates the process of correcting the problem when the unscrambling sequence gets out of phase with the coded section. Hopefully, most messages to be decoded will not have so many errors. But, as we have just seen, it should be possible (with effort) to decode the section even when many errors appear. If serious problems arise, a mathematical mind should be able to help -- consult the math dept. of some university.



4	7	7	0	1	3	81	22	11	13	13	44	41	6	16	22	21	19	17	28	30	29	30	31	31	42	43	2	5	7	6	9	12	15	18	65	71	77	84	83	80	32
47	19	48	45	49	51	62	74	79	16	50	59	41	63	61	64	78	1	76	0	37	39	40	60	67	70	4	10	3	52	55	54	56	69	68	38	31	34	36	50	35	5
24	23	27	4	11	11	2	16	19	21	30	1	41	1	52	1	0	18	40	51	6	68	84	80	2	19	23	23	58	76	67	8	8	81	17	36	63	83	79	79	70	71
62	4	7	68	1	3	54	45	55	9	17	18	1	3	12	14	71	33	8	54	16	9	40	57	6	25	23	50	26	40	11	12	12	60	15	35	55	80	77	21	57	64
1	3	2	4	3	5	4	6	11	7	61	63	62	64	63	65	0	10	14	29	39	43	34	3	30	31	65	70	76	74	73	2	16	83	9	9	8	27	5	75	1	8
61	54	38	21	25	69	6	79	4	0	6	46	12	56	8	7	1	1	2	3	5	8	13	18	26	39	57	83	2	1	3	4	7	11	18	25	36	54	79	80	1	5
4	83	79	80	1	5	6	11	56	2	5	7	2	9	11	6	5	3	4	0	2	1	8	8	9	7	8	1	0	6	7	5	42	19	13	15	8	1	0	3	76	72
84	1	4	72	9	6	8	68	43	32	34	39	37	35	5	4	70	66	4	62	34	28	6	22	16	8	8	0	16	24	40	64	82	60	54	39	71	41	31	6	0	6
12	18	30	48	78	30	48	18	30	12	18	6	12	6	6	0	9	9	20	48	81	49	27	17	13	23	22	42	33	63	63	2	5	1	7	0	15	3	8	3	4	9
1	2	68	61	47	74	64	68	81	80	5	45	52	67	68	70	20	11	16	14	2	25	61	71	41	24	31	42	48	46	54	29	7	9	8	66	54	45	44	72	28	3
31	34	3	37	40	4	60	62	62	9	8	0	15	20	84	81	81	0	1	1	0	5	9	12	7	8	3	2	6	13	48	58	63	57	81	12	14	21	35	56	42	21
14	35	49	7	1	4	9	16	25	35	48	63	80	79	62	47	34	24	15	83	3	0	7	1	3	6	10	16	22	40	50	60	70	80	7	8	9	2	3	4	1	5
6	5	15	25	35	45	55	65	75	1	7	8	0	1	2	2	9	19	29	39	49	59	69	79	77	67	56	46	36	26	15	16	13	1	2	3	64	50	54	52	8	11
23	28	38	32	33	44	17	29	49	72	73	1	7	9	7	0	21	66	18	49	49	17	14	4	7	7	0	1	81	3	22	11	13	13	44	41	16	6	22	21	17	30
30	31	43	42	2	7	9	15	65	77	83	32	47	45	62	16	41	64	1	0	39	67	10	55	69	31	36	35	19	49	74	50	63	78	0	40	67	4	3	55	69	31
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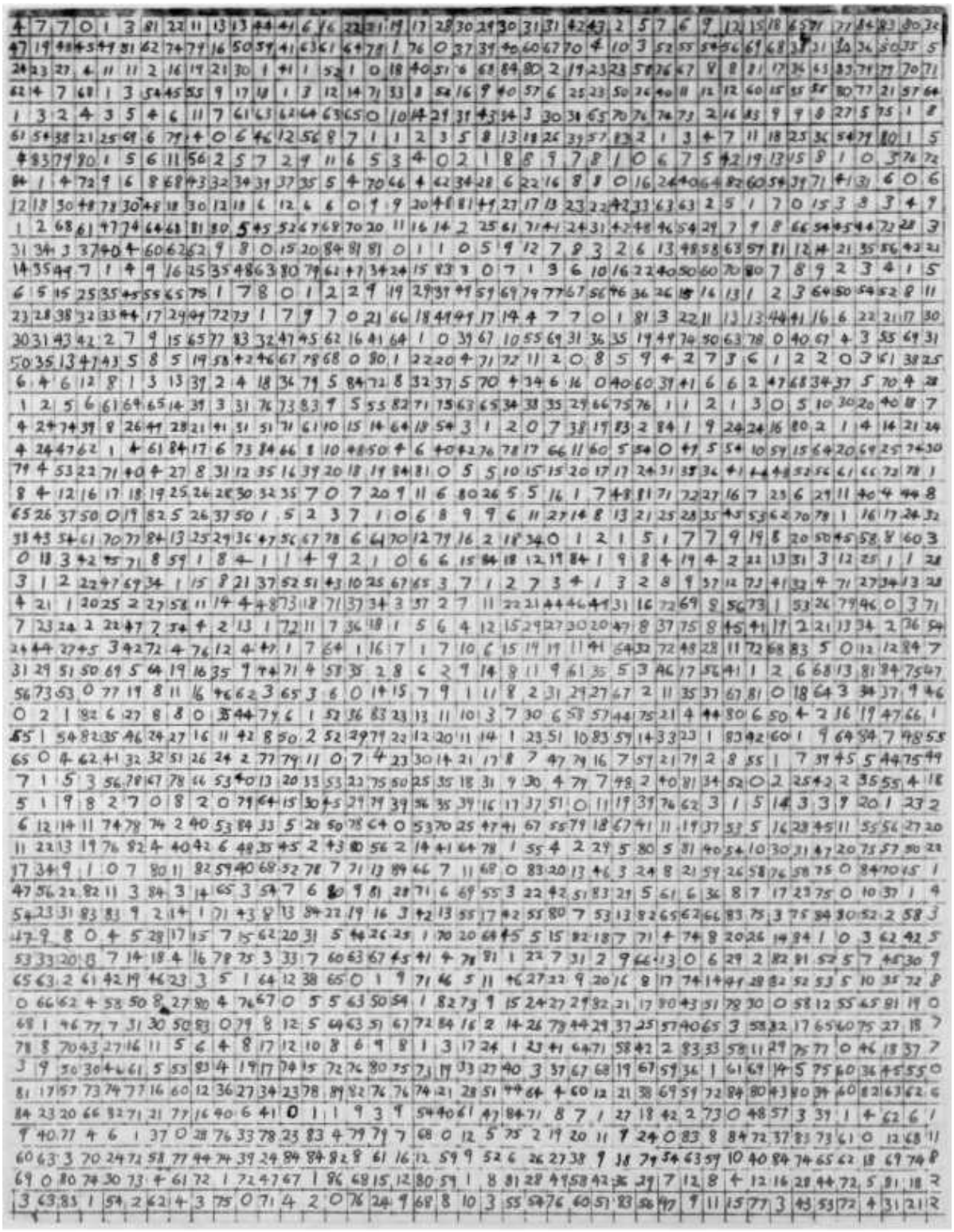


LIST OF MEANINGS

0 = FOR
1 = BE (all present tense forms, including am, is, are, etc.)
2 = BE (all past tense forms)
3 = BE (future tense, i.e., will be)
4 = THE
5 = A or AN
6 = HAVE (all present tense forms)
7 = HAVE (all past tense forms, i.e. had)
8 = HAVE (future tense)
9 = ED, or, when tagged onto the end of any verb, indicates the past tense, even if the past tense of that verb is not indicated by "ed" in ordinary English.
10 tagged onto the end of any verb indicates the future tense of that verb.

11 = ING
12 = ER
13 = LY
14 = TION
15 = THERE
16 = THEN
17 = AND
18 = BUT
19 = OR
20 = TO
21 = FROM
22 = TOWARD
23 = OF
24 = IN
25 = OUT
26 = NO
27 = BIG
28 = SMALL
29 = I, ME, MINE, MY
30 = YOU, YOUR, YOURS
31 = HE, SHE, IT, HIM, HER, HIS, HERS, ITS.

32 = WORD-SPACER
33 = WORD-SPACER
34 = PERIOD
35 = COMMA
36 = QUESTION MARK
37 = PARENTHESIS (
38 = PARENTHESIS)
39 = A
40 = A
41 = B
42 = C
43 = D
44 = D
45 = E
46 = E
47 = E
48 = F
49 = G
50 = H
51 = I
52 = J
53 = K
54 = L
55 = M
56 = N
57 = O
58 = P
59 = Q

60 = R
61 = R
62 = S
63 = S
64 = T
65 = T
66 = U
67 = V
68 = W
69 = X
70 = Y
71 = Z
72 delete
73 delete
74 = CH
75 = SH
76 = TH (unvoiced)
77 = TH (voiced)
78 delete
79 = OM
80 = PLOD
81 = ILL
82 = ETONA
83 = " (quotation marks)

84 = WHEN
85 = WHERE
86 = WHAT
87 = ST
88 = THAT
89 delete

dum5

LIST OF MEANINGS

0 = for

1 = be (all present tense forms, including am, is, are, etc.)

2 = be (all past tense forms)

3 = be (future tense; i.e., will be)

4 = the

5 = a or an

6 = have (all present tense forms)

7 = have (all past tense forms; i.e. had)

8 = have (future tense)

9 = ed, or, when tagged onto the end of any verb, indicates the past tense, even if the past tense of that verb is not indicated by "ed" in ordinary English.

10 tagged onto the end of any verb indicates the future tense of that verb.

11 = ing

12 = er

13 = ly

14 = tion

15 = there

16 = then

17 = and

18 = but

19 = or

20 = to

21 = from

22 = toward

23 = of

24 = in

25 = out

26 = no

27 = big

28 = small

29 = I, me, mine, my

30 = you, your, yours

31 = he, she, it, him, her, his, hers, its

32 = word spacer

33 = word spacer

34 = period

35 = comma

36 = question mark

37 = parenthesis (

38 = parenthesis)

39 = A

40 = A

41 = B

42 = C

43 = D

44 = D

45 = E

46 = E

47 = E

48 = F

49 = G

50 = H

51 = I

52 = J

53 = K

54 = L

55 = M

56 = N

57 = O

58 = P

59 = Q

60 = R

61 = R

62 = S

63 = S

64 = T

65 = T

66 = U

67 = V

68 = W

69 = X

70 = Y

71 = Z

72 delete

73 delete

74 = ch

75 = sh

76 = th (unvoiced)

77 = th (voiced)

78 delete

79 = OM

80 = PLOD

81 = I L L

82 = E T O N A

83 = " (quotation marks)

84 = when

85 = where

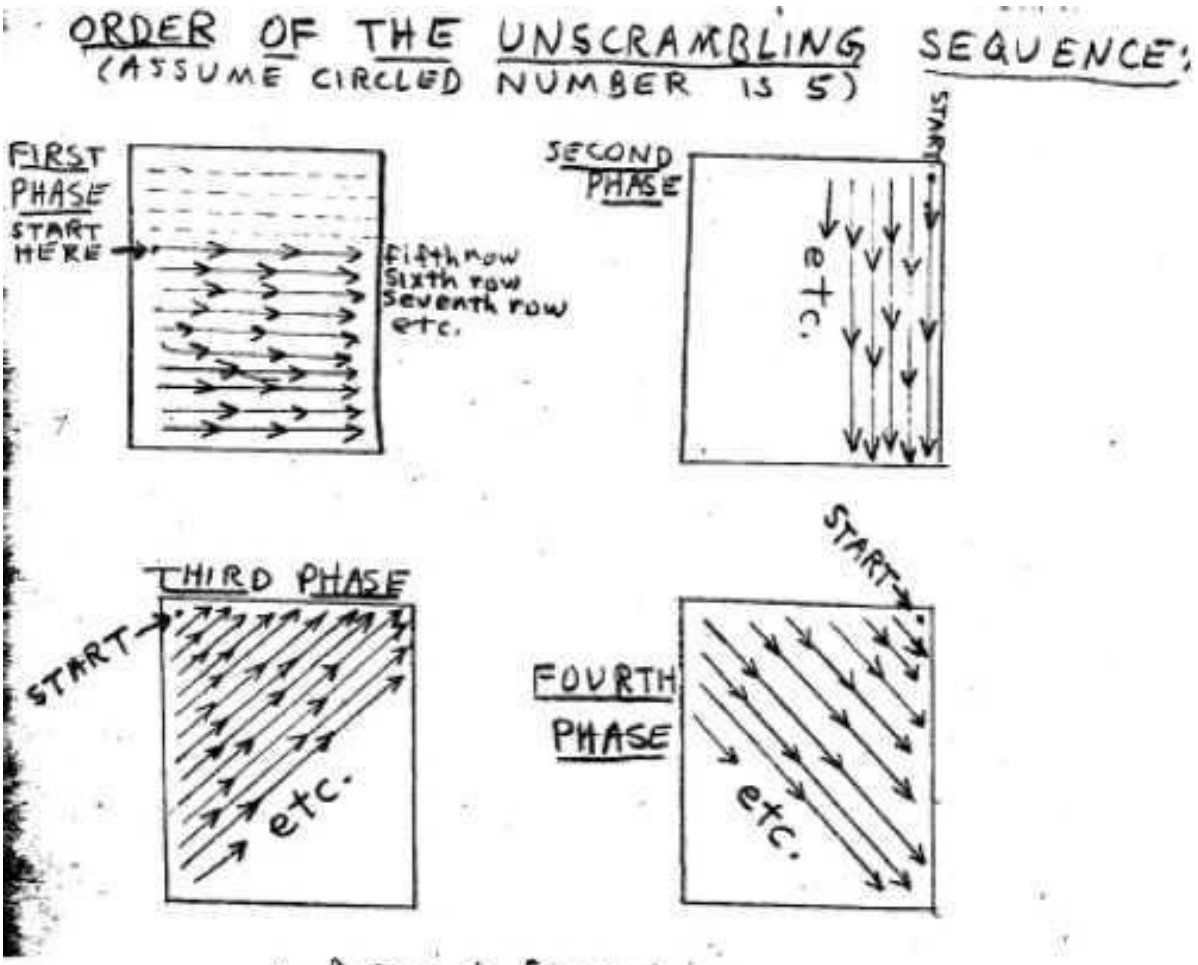
86 = what

87 = st

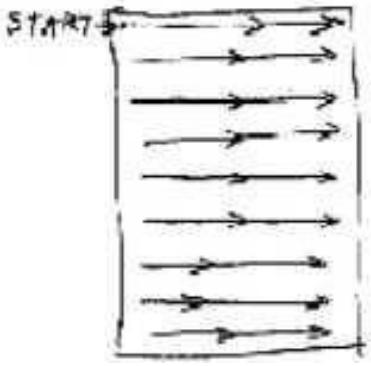
88 = that

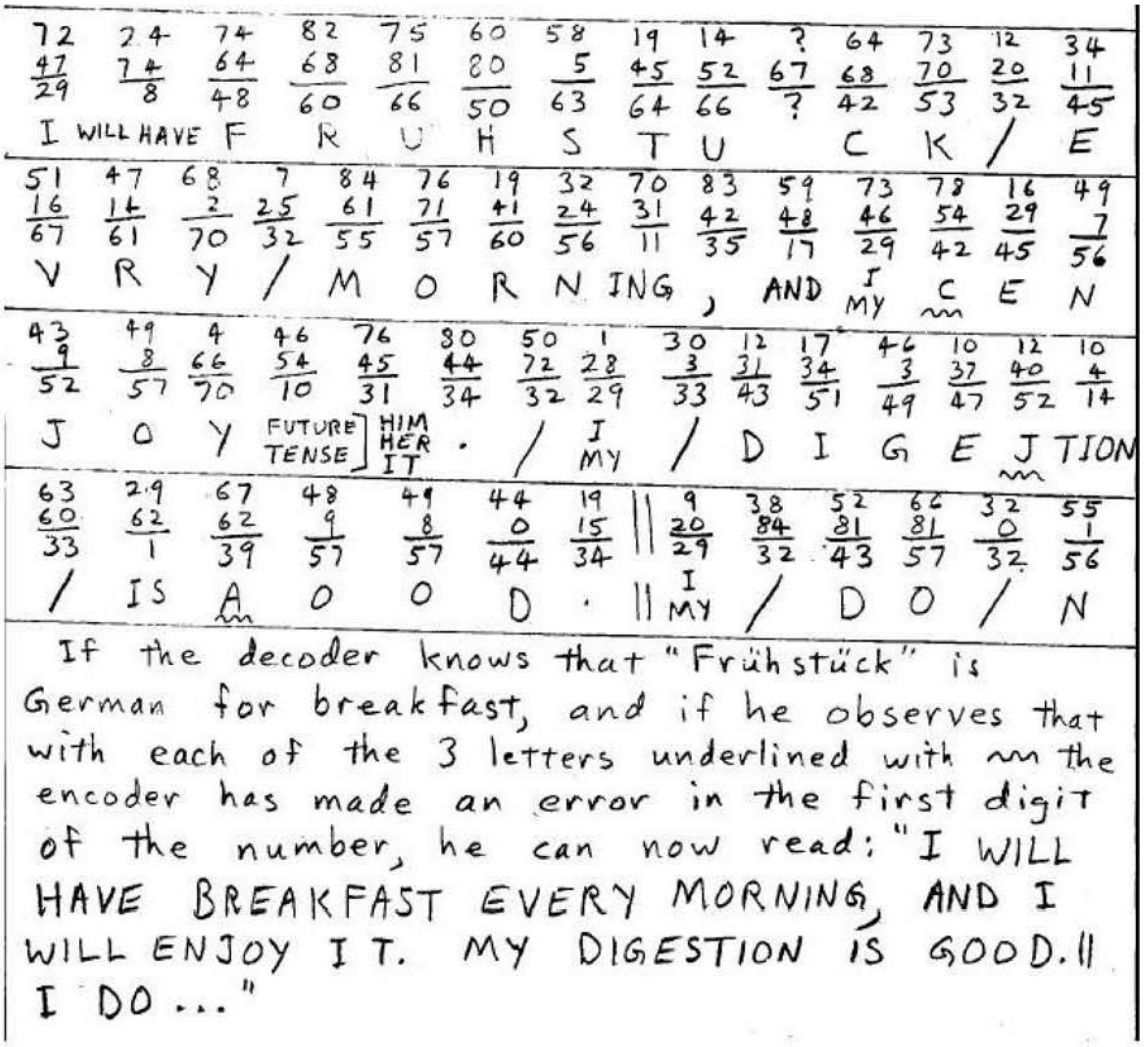
89 delete

ORDER OF THE UNSCRAMBLING SEQUENCE:
(ASSUME CIRCLED NUMBER IS 5)

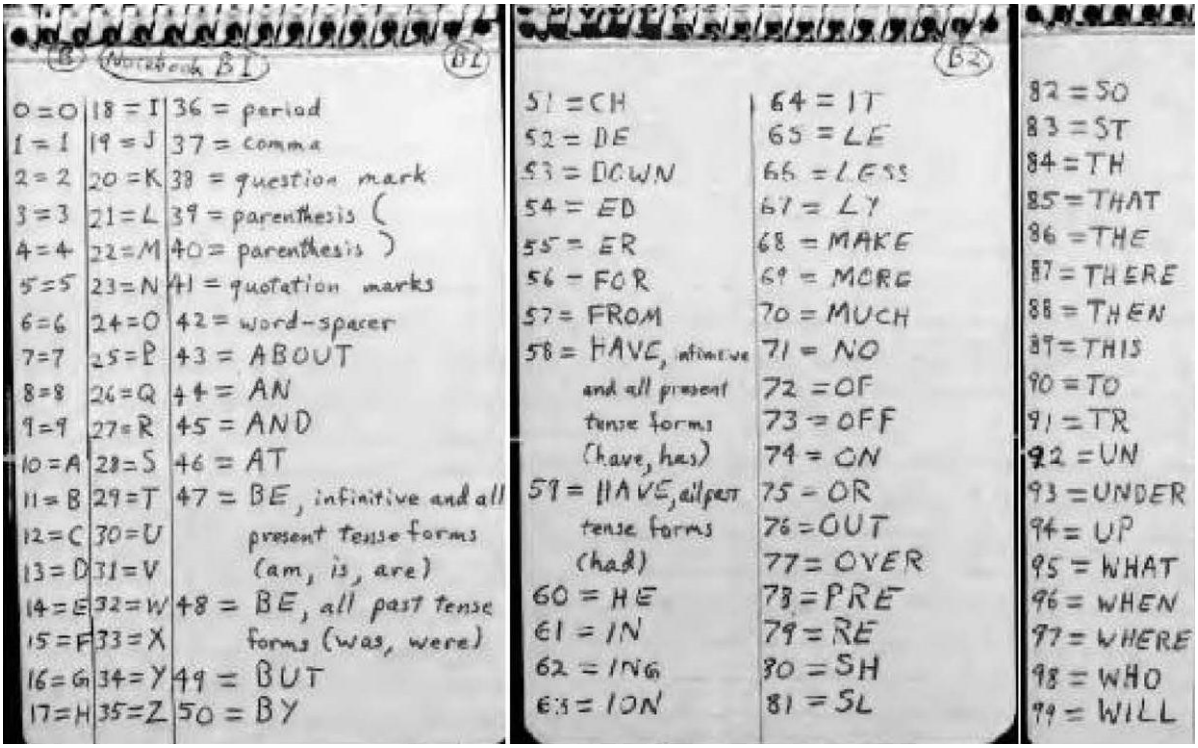


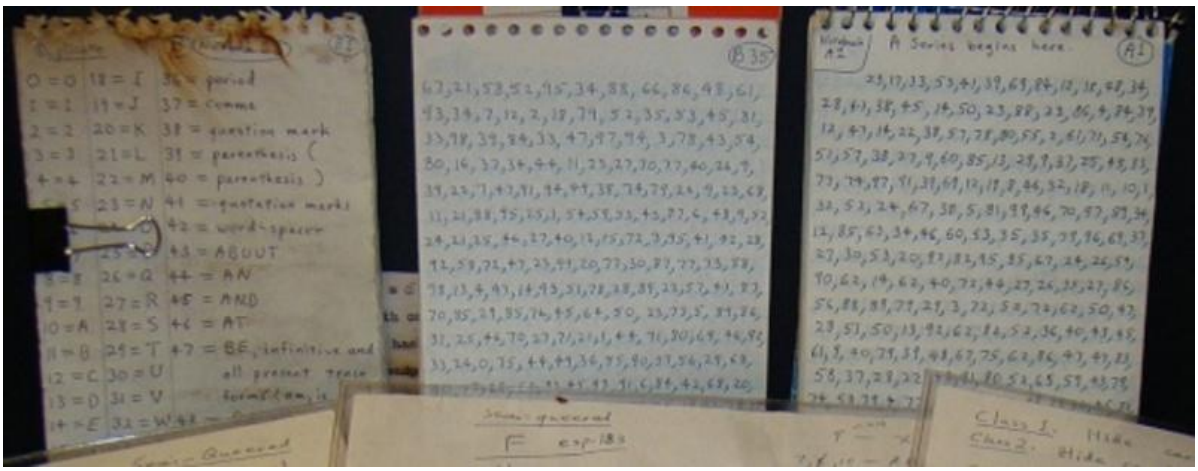
Return to first phase.





If the decoder knows that "Frühstück" is German for breakfast, and if he observes that with each of the 3 letters underlined with ~ the encoder has made an error in the first digit of the number, he can now read: "I WILL HAVE BREAKFAST EVERY MORNING, AND I WILL ENJOY IT. MY DIGESTION IS GOOD. I DO ..."


Notebook B1
B1
0=0 1=1 2=2 3=3 4=4 5=5 6=6 7=7 8=8 9=9 10=A 11=B 12=C 13=D 14=E 15=F 16=G 17=H
18=I 19=J 20=K 21=L 22=M 23=N 24=O 25=P 26=Q 27=R 28=S 29=T 30=U 31=V 32=W 33=X 34=Y 35=Z
36 = period
37 = comma
38 = question mark
39 = parenthesis (
40 = parenthesis)
41 = quotation marks
42 = word-spacer
43 = ABOUT
44 = AN
45 = AND
46 = AT
47 = BE, infinitive and all present tense forms (am, is, are)
48 = BE, all past tense forms (was, were)
49 = BUT
50 = BY
B2
51 = CH
52 = DE
53 = DOWN
54 = ED
55 = ER
56 = FOR
57 = FROM
58 = HAVE, infinitive and all present tense forms (have, has)
59 = HAVE, all past tense forms (had)
60 = HE
61 = IN
62 = ING
63 = ION
64 = IT
65 = LE
66 = LESS
67 = LY
68 = MAKE
69 = MORE
70 = MUCH
71 = NO
72 = OF
73 = OFF
74 = ON
75 = OR
76 = OUT
77 = OVER
78 = PRE
79 = RE
80 = SH
81 = SL
82 = SO
83 = ST
84 = TH
85 = THAT
86 = THE
87 = THERE
88 = THEN
89 = THIS
90 = TO
91 = TR
92 = UN
93 = UNDER
94 = UP
95 = WHAT
96 = WHEN
97 = WHERE
98 = WHO
99 = WILL



Ted Kaczynski
Decoding Procedure

A Review and Compilation of the Writings of Ted Kaczynski
For a great video analysis and demonstration of the decryption procedure working see Let's Crack Zodiac #18 - The Unabomber's Codes. And if you're mad enough to want to try it out on a real journal of Ted's, see this journal of partially decrypted numbers.