Example of machine errors.

The machine (literally) had a screw loose when it did this.

P£££££££££££££££££££V£O£££££O/7
£M/////////////////QWDRAUGHTSBTHRX/////////////////////////OO//////

//
QWDRAUGHTSBTHREERAUGHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH
//////////////
PPP

PPPPPPPP
++INITIAL--

++INITIAL--
-
+++IN--

++INITIAL--

QNTESTENGPRINT
2012310000000000410003015

11:000ABCDEFGHIJKLM
NOP QRSTUVWXYZ.
+- 00123456789 /@:½"££

£ABCDEFGHIJKLM
FNOP PQRSTUVWXYZ.
=+- 0123456789 E@:½"£
END BOF ZTEST

..
3120030000000000000400
1
1
015 111:000ABCCCCC

C/ABCDEFGHIJKLM
NOP PQRSTUVWXYZ.
=+- 00123456789 E/@::½½G"£££

END OF TEST..

.
QHDR/CNINE/TENFROMDR/

B
QQHDR/CNINE/TENFROMDR/B
QHDR/CNINE/TENFROMDR/B//////////////////////O/OM//////////////////Ø
QQHDR/CNINE/TENF½OMD½/B
QTALTERDR/BFORGAMEEEEE
QFPLAY/DRAUGHTSPLEASE DREAD THE SINSTRUCTION NCARD.

SHALL LWE ZTOSS FFOR WTHE FFIRST MMOVE. WWILL QYOU USPIN EA COIN

QQFPLAY/DRAUGHTSS
QFPLAY/DRAUGHTSSSSSSSPLEASE JREAD ZTHE SINSTRUCTION NCARD.
SHALL WE ZTOSS FFOR WTHE FFIRST XMOVE. WILL HYOU USPIN EA COIN
NNNNNNPLEASE DREAD ZTHE SINSTRUCTION FCARD.

QQFPLAY/DRAUGHTSSSSSPLEASE DREAD ZTHE SINSTRUCTION FCARD.
QFPLAY/DRAUGHTSPLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MMOVE. WILL YOU SPIN A COIN
PLEASE READ THE INSTRUCTION NCARD.
SSHALL WE ZTOSS FFOR THE FIRST MOVE. WILL HYOU SPIN @A COIN
NNDAEHS - YHAVE I WON
PLEASE DREAD ZTHE SINSTRUCTION FCA

.....
SSHALL WWE ZTOSS FFOR WTHE FFIRST
ZWILL HYOU SSPIN EA KCOIN E XMOV
LIATS - HHAVE SI WWON

PLEASE DREAD ZTHE SINSTRUCTION FCARD.
SHALL WWE ZTOSS FFOR ZTHE FFIRST XMOVE. WWILL YYOU USPIN EA KCOIN
FNNNNNNNN
+++INITR//--
.++PPPPPLEASE.DREAD ZTHE SINSTRUCTION FCARD.

SSHALL WWE ZTOSS FFOR TTHE FFIRST XMOVE. ZWILL QYOU S
NN
NDAEHS - HHAVE SI LWON

PLEASE DREAD THE INSTRUCTION CARD.

SHALL WWE ZTOSS FOR THE FFIRST MMOVE. ZWILL YOU SSPIN @A KCOIN
NNNNNNNDAEHS - YHAVE SI WWON
PLEASE READ THE INSTRUCTION CARD.
SHALL WE ZTOSS FOR THE FIRST MOVE. WWILL HYOU SPIN A COIN

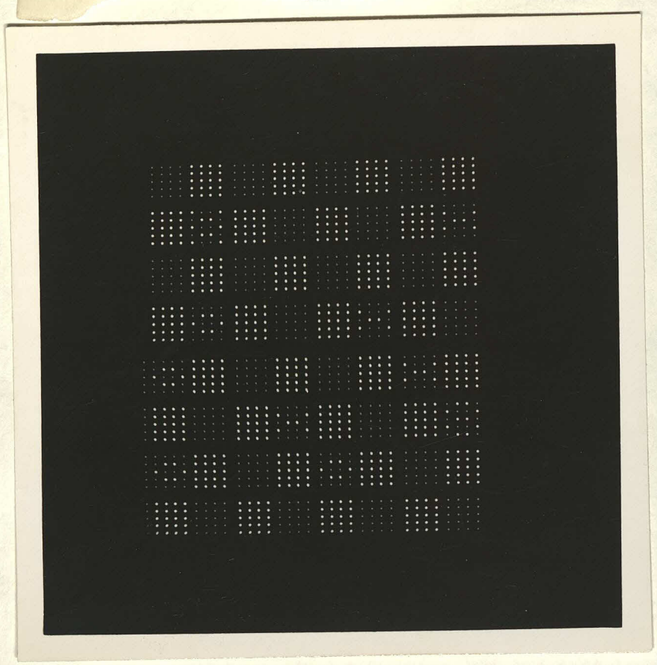
PLEASE.DREAD.ZTHE.SINSTRUCTION.NCARD.....

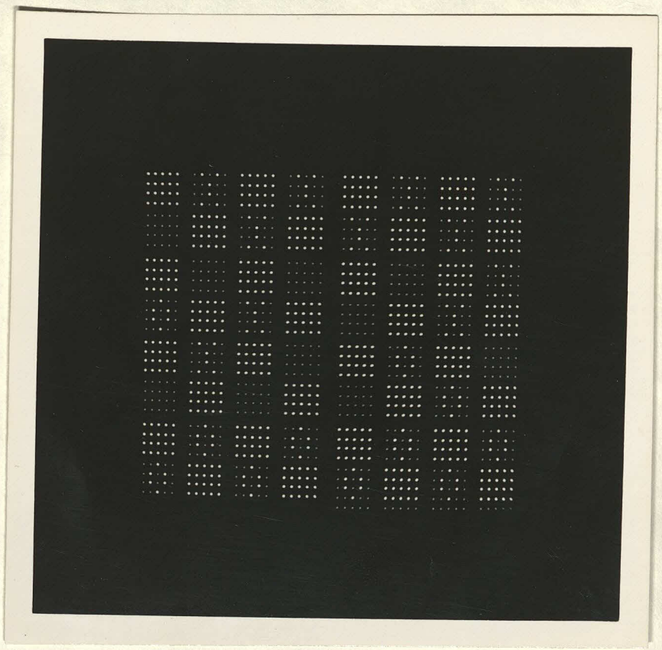
£
SHALL WWE ZTOSS FFOR WTHE FFIRST XMOVE. ZWILL QYOU USPIN EA KCOIN
NNNNNNNNNDAEHS - YHAVE SI WWON
PLEASE READ THE INSTRUCTION CARD.
SSHALL LWE TOSS FOR WTHE FFIRST XMOVE. ZWILL QYOU USPIN EA KCOIN
DAEHS - HHAVE SI WWON
LEASE DREAD ZTHEPPNSTRUCTIONPLEASEDJREAD THE INSTRUCTION CARD.
SSHALL WWE ZTOSS FFOR THE FFIRST XMOVE. ZWILL QYOU USPIN EA KCOIN
NDAEHS - YHAVE UI WWON

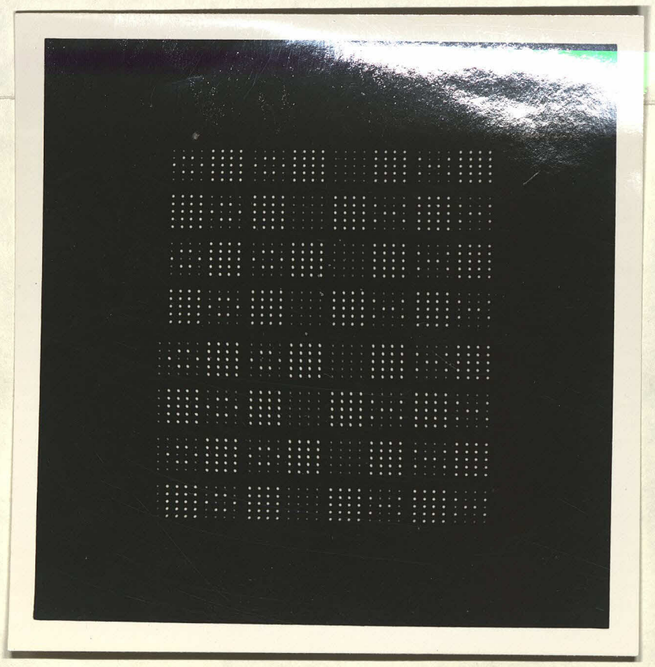
/////////////TPLEASE DREAD ZTHE SINSTRUCTION FCARD.
.....

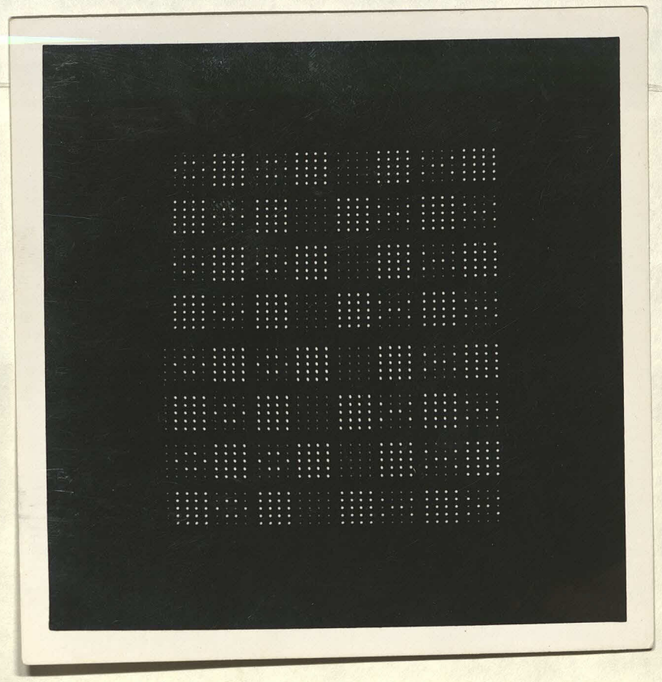
Photographs of the monitor tube display during a game of draughts.

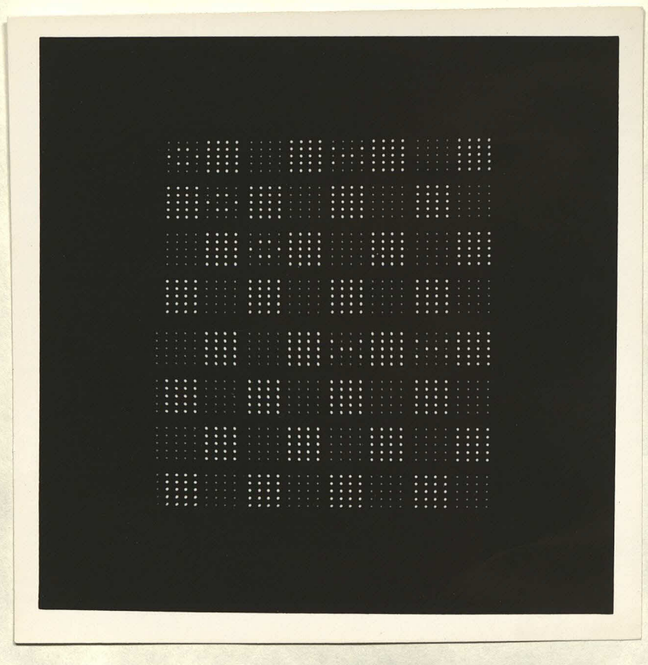
These are best viewed at arm's length

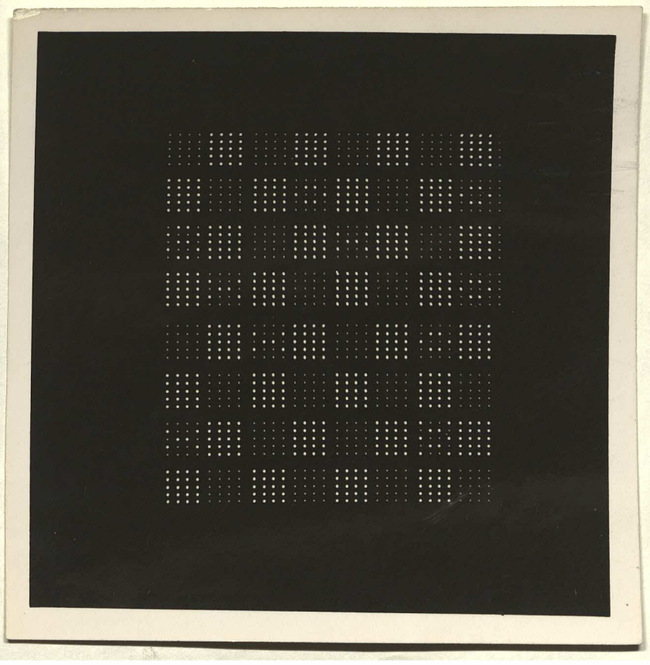


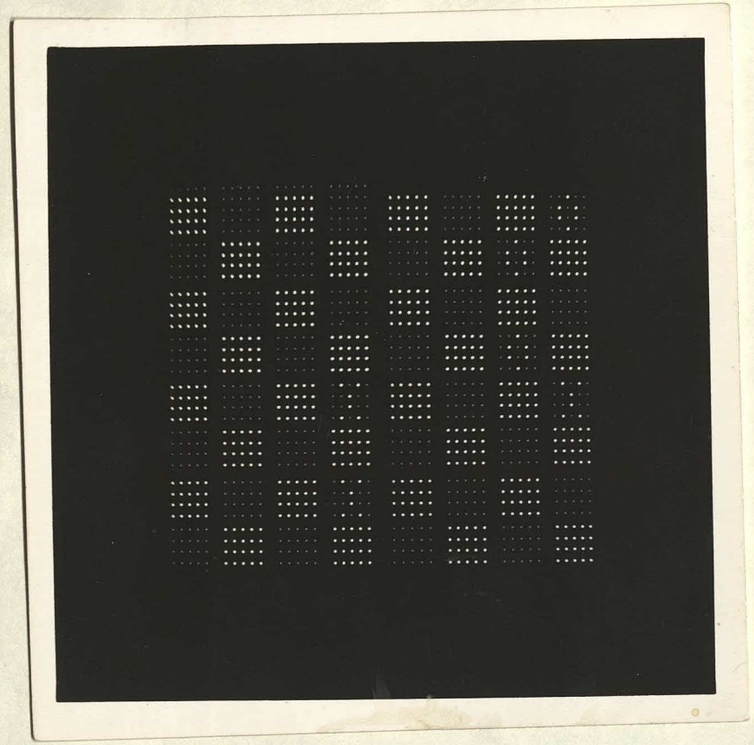


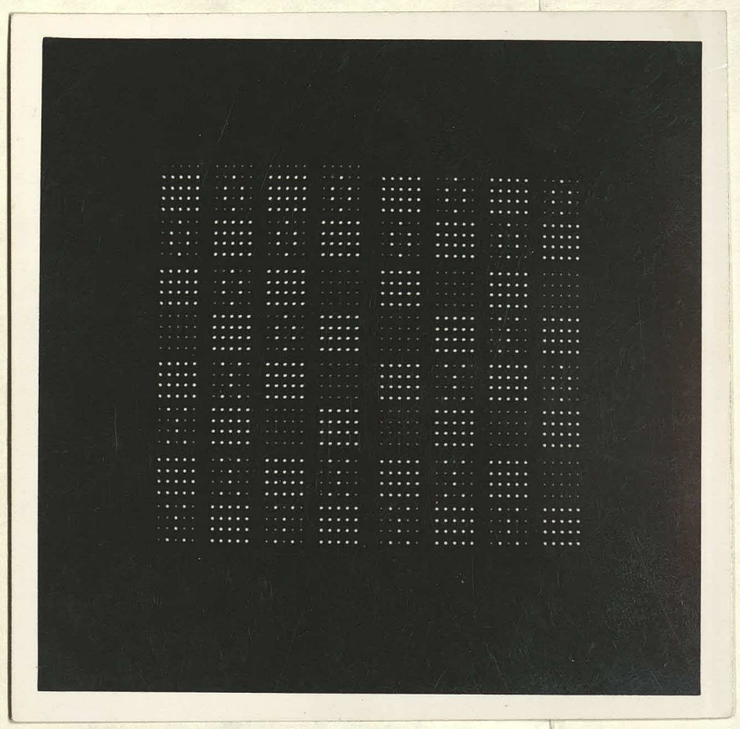


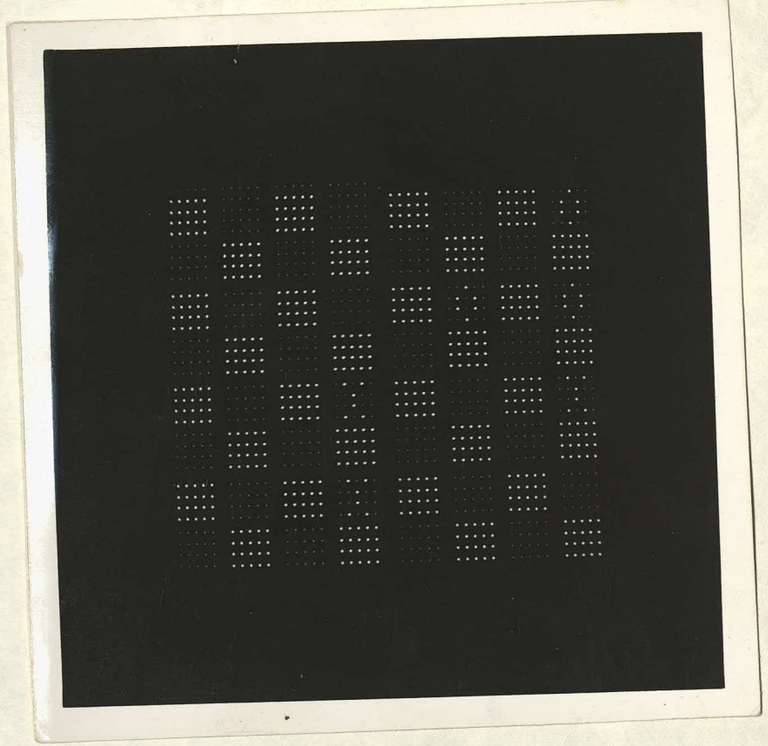


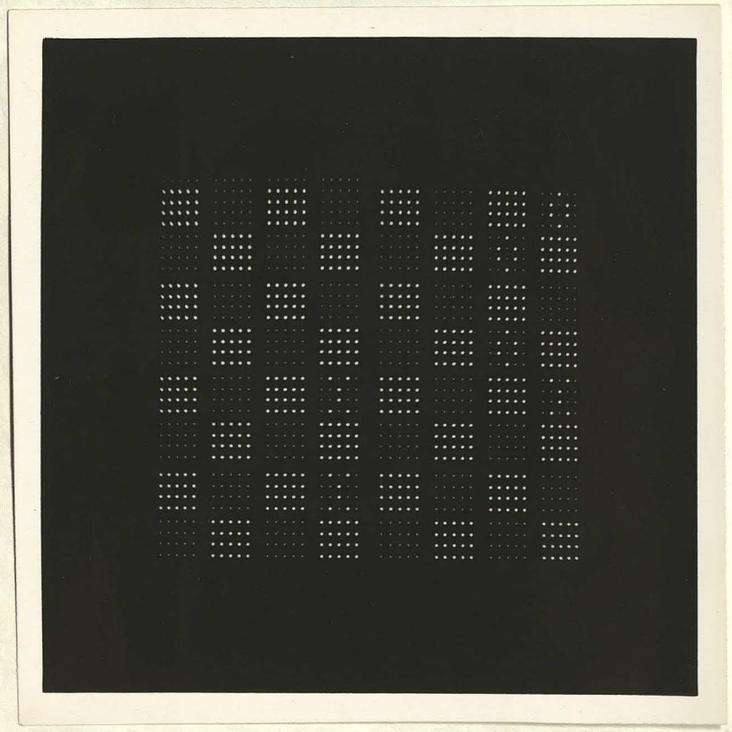


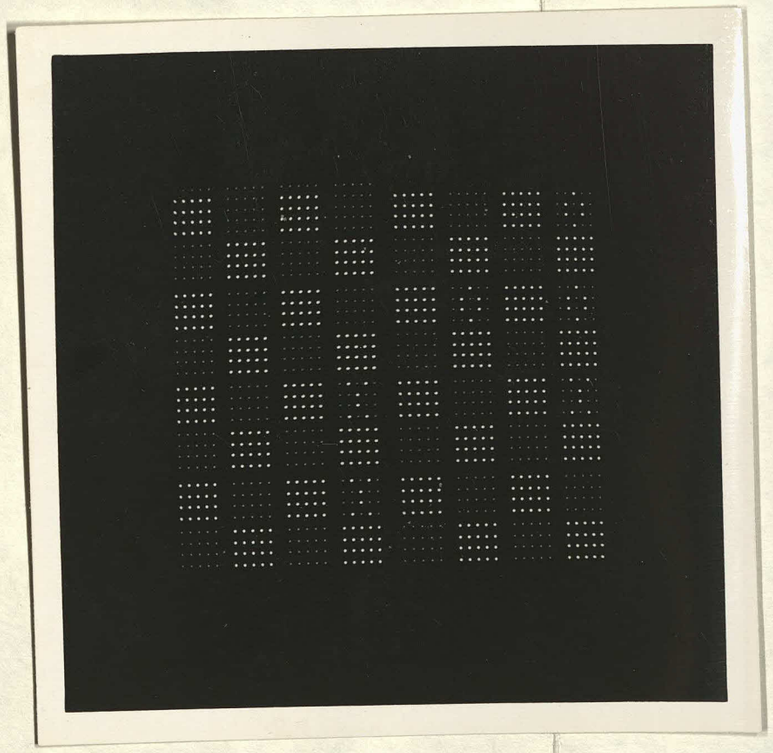


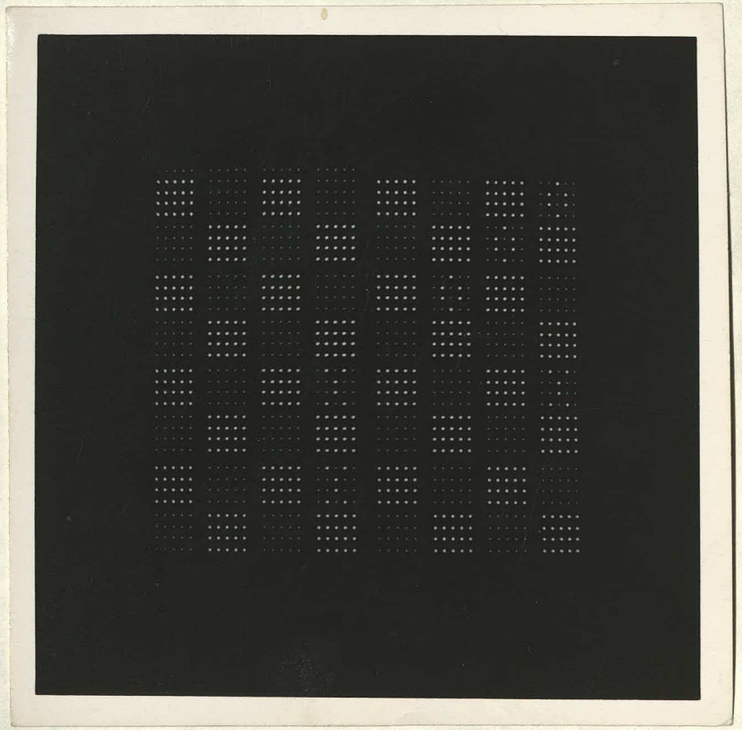




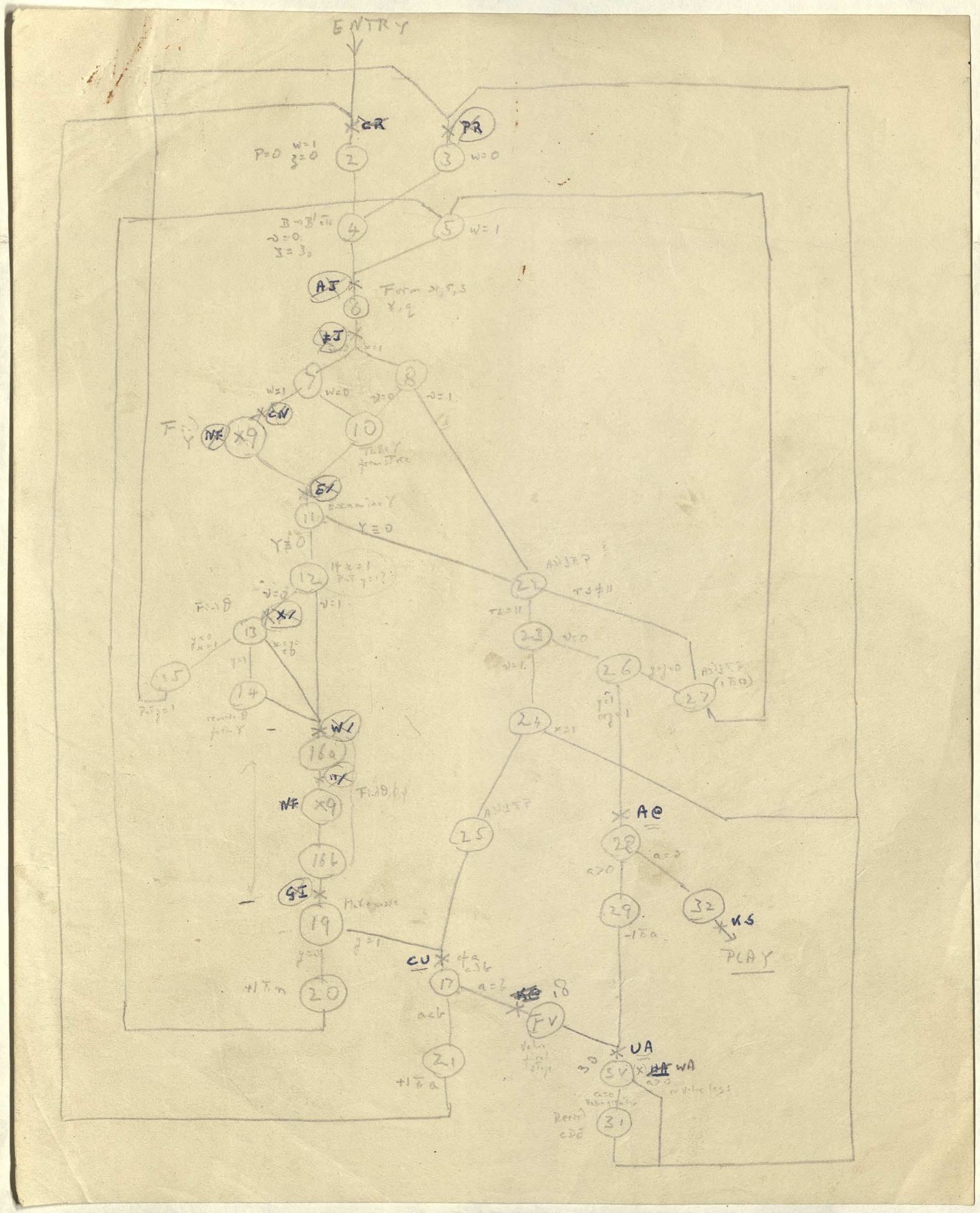








Flow diagram of programme for the inner section of draughts. This part allows the machine to decide its own move. (This are my own working copy - hence its dog-eared state)



$y = x^5 - 30 = 0 \qquad y' = 5x^4$

$x = 2 \qquad h = -\frac{2}{80} = -\frac{1}{40} = -.025$

$x = 1.975 \qquad h = -\frac{0.06}{76.10}$ Log NOT sufficiently accurate

≈ -0.0008

$x = 1.9742$

$h = -\frac{0.040}{76.05} = -0.00053$

$x = 1.97447$

No	Log
1.975	0.2956
15.22	4
	1.1824
	2956
30.06	1.4780

1.975
1.975
9875
13825
17775
1975
x^2 3.900625 = 3.900

x^4 = 15.2100
1.975
7605
10647
13639
1521
30.03975

5) 1.4771213
0.2954243
2954131
112
110
2

1.974351

3.8996
3.8996
23 3976
350964
350964
311968
116988
15.20687016
4

15.207
1.975
76035
106449
136863
15207
30.03825

~~295567~~

2955671
5
1.4778355
8300
55
44
11

3004938

3900625

3811342
1314
28
22
6

$3901^2 =$

$(2 - .025)^2 = 4 - 2\times2\times.025 + .025^2$
$= 4 - .1 + .025^2$

1975
1975
9875
825

$x_1 \left(2 - \frac{1}{40}\right)^5 \cancel{2} - 30 = \cancel{2} - \cancel{5\times10\times\frac{1}{40}} + \cancel{\frac{5\cdot4}{1\cdot2}\times8\times\frac{1}{1600}} - \cancel{\frac{5\cdot4\cdot3}{1\cdot2\cdot3}\times16\times\frac{1}{64000}} + \sim$

$= .05 - .000625 + \sim$

$= .0494$

$-\frac{494}{76.1} = -0.00065$

$1.975 - .00065 = 1.97435$

2 3 4 5 6 7 8 22 27 9 13 10 11 12 16a 14 15

(2)

(2) → N ¼ I S
U S L O
D ¼ P T
E : / O
U S Q G
D ¼ P Z
E : / Q
(3) → / : L O
(4) I ¼ P /
L ¼ I S
¼ ¼ P /
T ¼ I S
R ¼ P /
H ¼ I S
S C T B
/ S T /
M C T A
E : / Q
(5) U S L O
(6) @ C / S
A C / S
A : Q O

E : / Q
V K T K

A : / M
T :

@ C U S
E : Q G
/ T
A C H O
I K Y O
F ¼ P T
E : / O

S K Y G
J C H G
E : / O
W C H O
: K H B
: C Q O
/ T → ✓
(8) S C Q O
/ T → ✓
(22) N ¼ P /
M C T I
A C Q O
A : / O
@ C Q G
/ T → 23
(27) → M C T I
N ¼ P A
(5) ✓ ← / P
- - - - -
(7) / : L G
/ T → ✓
(9) S C Q O
A : / O
P C T /
E : / Q
→ L ¼ T /
A C Q O
E : / O
N ¼ P R
(4) → V K T A
E C / C
S : / N
M K / A
G K / S
: K H O
M K Q O
S : / Q
G K T A
M K T F
M K T A

M K H G
→ M K H G
A : Q G
D : N C
V K / N
K J H I
D C M R
/ T
G K T I
V K Y B
V K / Q
/ P → 16a
V K / S

D S T J
V K T R
/ P → (11)
G C / S
T ¼ P R
S K Y G
V K T A
M K T ¼
A : T I
M K T A
/ P
- - - -
(10) C ¼ P /
(11) E : T N
E : / M
(E) ✓ / P
(12) E : T I
: C Q O
/ T
F ¼ P T
X C Q G
F ¼ P Z
S C Q O

(13) → A : / Q
/ : L /
(16a) I K Y O
U S Q O
@ C Q G
@ C Q B
(14) → W C Q O
: K Q G
: K Q B
P C / J
O C / A
P C / S
E : Y G
← / P
(12) C ¼ I S
C ¼ I @
V K / E

(¼ E11) L G

(¼ V ✓) L G
F ¼ P T
(14) S : / O
(14) / : L J
C ¼ I S
/ : L /
/ P → 16a
: C Q O
/ T → 16a
(15) / : L J
C ¼ I S
J S T /
¼ ¼ P D
¼ ¼ P A
(3) ← / P

15B

16 19 17 21 20 23 24 25 26 28 29 (30) 31
(FV 30)

(16) F ¼ P T

E : T N
/ H
I C Q O

A : / M
/ : L O
E : / Q
U S L O
(19) L ¼ P /

T ¼ / S

H ¼ P R
V K / S
~~/ : L G~~
S : / O
D C T /
D S T J
V K T R

P C T J
H ¼ T A
F ¼ P T
/ T → 20
(17) V K P B
F C P G
/ T → FV ✓
(21) V K P O
L C P G
S C T /
U S T J
J C T A
(2) / P
- - - -
(20) Q S / C
M C / N
M C / A
U S T /
S C T D
S C T A
(5) / P
- - - -
(23) N ¼ J S
S C Q O
/ T → 26 ✓
(24) ! C Q O
E : / O
/ P → 23
(25) M C T I
N ¼ P A
(11) / P
- - - -
(26) F ¼ P T
E : / O
A : / Q
D ¼ P T
(27) / T
(28) K C P G
/ T → 29 ✓
Y : P O
/ P → 32

(29) / C P G
I C T /
U S T J
I C T A ✓
/ P → S.V.
- - - -
(FV) T ¼ P /
E : Q O
O K / C
S : / Q
G K T A
L ¼ P ¼
E : / M
I S T I
V K / S
H ¼ P R
M K T A
M K / R
M K / A
V K / R
/ T
M K / N
E : Q G
/ T
G K T N
V K T A
Y : / C
V K / N
P ¼ P A
(SV) / ! Q O
N ¼ P L
V K Q B
P ¼ P L
E : / O
/ P → 3
K C P G
/ T
E : Q G
S : / O

/ W
W : T N
/ G
/ H
31 → L ¼ P /
/ ¼ / S
T ¼ P /
C ¼ / S
H ¼ P /
: ¼ T A
D S Q G
T C P G
V K Q G
N ¼ P Z
(3) / P
- - - -

134

131
157
288

$y = x^5 - 30 \qquad y' = 5x^4$

$x = 2 \qquad h = -\frac{2}{80} = -\frac{1}{40}$

$x = 2 - \frac{1}{40} \qquad x^5 = \left(2 - \frac{1}{40}\right)^5 = 2^5 - 5.16.\frac{1}{40} + 10.8.\frac{1}{40^2} - 10.4\,\frac{1}{40^3} + 5.2.\frac{1}{40^4} - \frac{1}{40^5}$

$x^5 - 30 = 2 - 2 + \frac{8}{160} - \frac{4}{6400} + \frac{1}{256000} - \frac{1}{1024000000}$

$= \cdot 05 - \cdot 000625 + \cdot 000004 - \sim$

$= \cdot 049379$

$5x^4 = 76 \cdot 10$

$h = -\frac{\cdot 04938}{76 \cdot 10}$

$= -\cdot 0006488$

$\bar{2} \cdot 6935$
$1 \cdot 8814$
$\bar{4} \cdot 8121$

$x = 1 \cdot 925 - \cdot 0006488 = 1 \cdot 9743512$

Actually correct to 6 decimals.

Examples of draughts as played by the machine.

Most of these were experimental and show signs of errors, either in the programme or in the machine.

Extra lines of printing starting with 'Q' are for identification only.

```
                    8 - 13
                                8 - 13

WRONG KEY SETTING. PLEASE CORRECT IT.
22 - 17                                 13 - 22
WRONG KEY SETTING. PLEASE CORRECT IT.
 PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
26 - 17 22                              5 -  8
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU DONT OBEY THE INSTRUCTIONS I CANT PLAY WITH YOU: TRY ONCE MORE
I REFUSE TO WASTE ANY MORE TIME. GO AND PLAY WITH A HUMAN BEING
```

```
                                                PLEASE READ THE INSTRUCTION
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
HEADS - HAVE I WON
 10 - 15
++/--
 10 - 15
63 -  6 15
19 -  1 K  6                          7 - 10  10 - 15  10 - 15
                                      7 - 10
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU DONT FOLLOW THE INSTRUCTIONS I CANT PLAY WITH YOU. TRY ONCE MO
I REFUSE TO WASTE ANY MORE TIME. GO AND PLAY WITH A HUMAN BEING 10 -5
28 - 24                               7 - 10
WRONG KEY SETTING. PLEASE CORRECT IT.
21 - 17                              14 - 28 K
29 - 24                              28 - 21
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
31 - 27                               2 -  7
27 - 23                               9 - 14
16 - 13                              21 - 16
12 -  8                              16 -  9
 8 -  5                               9 -  0
30 - 26                               0 -  5
26 - 22                               5 -  0
23 - 18                              14 - 23
22 - 17                               0 -  5
17 - 13                               5 -  0
13 -  8                               4 - 13
```

ad.

W wins

```
QDTESTFPONE
QDTESTFPTWO 11 - 15                                          11.7.52
23 - 18                                  15 - 19
18 - 15                                  19 - 23
27 - 18 23                               10 - 19 15
18 - 14                                   9 - 18 14
WRONG KEY SETTING. PLEASE CORRECT IT.
22 - 15 18                               19 - 23
26 - 19 23                                8 - 12
WRONG KEY SETTING. PLEASE CORRECT IT.
21 - 16                                  12 - 21 16
24 - 17 21                                7 - 11
15 - 10                                   6 - 15 10
19 - 10 15                               11 - 15
17 - 13                                  15 - 19
25 - 22                                  19 - 23
31 - 27                                   5 -  9
13 -  6  9                                2 -  9  6
27 - 18 23                                9 - 13
18 - 15                                  13 - 17
WRONG KEY SETTING. PLEASE CORRECT IT.
22 - 13 17                                4 -  8
13 -  4  8                                3 -  7
10 -  3 K  7                              1 -  5
 3 -  7                                   5 -  9
 7 - 10                                   9 - 13
10 - 14                                  [01--]
[£]

                                         13 - 17
14 - 21 17                                0 -  5
21 - 16                                   5 -  9
16 - 13                                  63 - 63
13 - 17                                   9 - 13
17 -  8 13                               63 - 63
```

b=2

Aug 21st 1952

```
                                  10 - 14
22 - 18                            8 - 13
21 - 16

21 - 16                            6 - 10

                                   6 - 10
16 - 12                           10 - 15
26 - 22                            1 -  6
23 - 19                           14 - 23 18
19 -  1 K 15  6

19 -  1 K 15  6 7                  4 -  8
27 - 18 23                         2 -  6
 1 - 10  6                         7 - 23 18 10
31 - 27                            0 -  4
27 - 18 23                         3 -  7
25 - 21                            7 - 10
21 - 17                           10 - 15
17 - 14                           15 - 19
14 - 10                           19 - 23
10 -  6

10 -  6                           13 - 16
20 - 13 16                         8 - 26 22 13
 6 -  1 K                         26 - 31 K
 1 -  8  5                         4 - 13  8
12 -  8                           23 - 27
 8 -  5                            9 - 14
18 -  9 14

18 -  9 14


18 -  9 14 5                      31 - 26
30 - 23 26                        27 - 31 K
 9 -  6                           13 - 16
 6 -  2 K                         16 - 21
24 - 17 21                        31 - 26
23 - 19                           11 - 15
19 - 10 15                        26 - 31
0FWRITEDRAUGHTS
++ACTIONSETPUNCH--0

0½DRAUGHTS
0FWRITEDRAUGHTS
++ACTIONSETPUNCH--0
```

21.8.52
6=3

```
PLEASE READ THE INSTRUCTION CARD
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
HEADS - HAVE I WON
  8 - 13
21 - 16                          10 - 15
23 - 19                          15 - 18
22 - 15 18                       11 - 18 15
26 - 22                           7 - 11
22 - 15 18                       11 - 18 15
16 - 12                           5 -  8
12 -  5  8                        1 -  8  5
19 - 15                           2 -  7
15 - 11

15 - 11                           7 - 10
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
11 -  7                          13 - 17
 7 -  2 K                         8 - 12

11 -  7

11 -  7

                                 63 - 63 11  7

11 -  7                           0 -  5
 7 -  2 K                        13 - 17
 2 -  7

 2 -  7

 2 -  7                           9 - 14
25 - 22                          17 - 26 22
31 - 15 26 18                    10 - 19 15
 7 -  2                           5 -  9
20 - 16                          63 - 13


 7 -  2                           6 - 10
 2 -  6

 2 -  6

 2 -  6                          10 - 15
 6 -  9
++INITIAL--


 6 -  9
```

/½
B£DCC"W:

```
OEOZ / PK/£
//// E ///T
/T// @ ////
ZME/ A ////
/T// : //@/
///T S ZME/
ODTZ I TSOT
//// U ///£
/T// ½ //@/
ZME/ D ///T
/T// R SMFE
//// J E//C
VUL£ N ////
///O F ////
//// C TSOT
/T// K ///£
/T// T //@/
ZME/ Z ZME:
OEOZ L //@/
//// W ///T
/T// H "ALV
///T Y ////
SCK/ P ////
E/½F Q ////
///½ O ////
//// B ////
OE½T G ////
///£ " ////
//@/ M ////
ZME/ X ////
//@/ V ////
//// £ ////
```

```
6 - 9
9 - 0 5
0 - 5
5 - 9
9 - 14
14 - 23 18
30 - 23 26
23 - 18
18 - 14
29 - 25
24 - 17 21
14 - 10
10 - 6
6 - 1 K
17 - 8 13
27 - 18 23


17 - 8 13
27 - 18 23


17 - 8 13

17 - 8 13
27 - 18 23
```

```
14 - 17
17 - 22
8 - 12
15 - 18
3 - 7
19 - 26 23
7 - 11
22 - 26
26 - 30 K
30 - 21 25
11 - 15
15 - 19
4 - 8
8 - 13
19 - 23
63 - 63

63 - 63


19 - 23
63 - 63

63 - 63


19 - 23

19 - 23
63 - 63
```

DRAUGHTS

Instructions

The machine gives a 'pip pip' signal when it requires attention. It should always be restarted by operating KAC after H has been set appropriately.

After the machine has printed: Action

Please spin a coin: Do so.

Have I won. If it has called correctly set H = 1111 } KAC
If not set H = 1117

After subsequent 'Pip-Pip' (unless a fault is indicated) make your move

Thus:-

For move 17 – 10 capture at 13

17	Set H = @ / : /	KAC
10	Then H = @ E / /	KAC
13	Then H = @ ½ / /	KAC
	Then H = / / / /	KAC

These settings give a sp. no

Thus $H_0 - H_4$ Tens digit E = 0, @ = 10, : = 20, ½ = 30

$H_5 - H_{14}$ units digit

$H_5 = 0$ $H_6 = 1$ ... $H_{14} = 9$

$H_{15} - H_{19}$ always 0.

Finish with H = 1111

H = α β γ δ

α = / Impossible
E 0
@ 10
: 20
½ 30
T Impossible

βγ = / / Impossible

E /	0	/ E	5
@ /	1	/ @	6
: /	2	/ :	7
½ /	3	/ ½	8
T /	4	/ T	9

δ always /

Next pip with new position shown as 5 3 (10 as 35)

If correct KAC If wrong H = / / / T KAC ⊃ repeat move.

8

QQDRAUGHTSBMASTERONEROUGH
QQDRAUGHTSBMASTERTWOROUGH
QZDRAUGHTSBONEROUGH
QZDRAUGHTSBTWOROUGH
QWDRAUGHTSBTHREEROUGH
QLDRAUGHTSBFOURROUGH
QLDRAUGHTSBFIVEROUGH
QZDRAUGHTSBSIXROUGH
QWDRAUGHTSBSEVENROUGH
QWDRAUGHTSBEIGHTROUGH
QZDRAUGHTSCONEROUGH
QZDRAUGHTSCTWOROUGH
QWDRAUGHTSCTHREEROUGH
QLDRAUGHTSCFOURROUGH
QLDRAUGHTSCFIVEROUGH
Q
QZDRAUGHTSCSIXROUGH
QWDRAUGHTSCSEVENROUGH
QWDRAUGHTSCEIGHTROUGH
QLDRAUGHTSCNINEROUGH
QZDRAUGHTSCTENRIUGH
QRDR/CMASTER
QFPLAY/DRAUGHTSPLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
QFPLAY/DRAUGHTSPLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU DONT FOLLOW THE INSTRUCTIONS I CANT PLAY WITH YOU. TRY ONCE MO
I REFUSE TO WASTE ANY MORE TIME. GO AND PLAY WITH A HUMAN BEING
QFPLAY/DRAUGHTSPLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAI

```
                                        0  8 - 13
WRO/  8 - 13
 WRONG K/  8 - 13   8 - 13   8 - 13   8 - 13
WRO/  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.   8 - 13   8 - 13
WRO/  8 - 13
WRONG KEY  8 - 13
  8 - 13
 21 - 16                            5 -  8
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND   8 - 13
WRONG KEY SETTI/  8 - 13
 WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTIN  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
QRDR/CMASTER 63 - 63   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT I/  8 - 13
WRONG KEY SETTING. PLEASE   8 - 13
WRONG KE  9 - 17
WRONG KEY SE  8 - 13   8 - 13
WRONG KEY SET  8 - 13   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
QZDRAUGHTSCONEROUGH  8 - 13
21 - 16                            5 -  8
WRONG KEY SETTING. PLEASE CORRECT IT
```

```
QZALTERKACWAITINDRC  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START TH  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13   8 - 13
WR/  8 - 13
WRONG KEY SETTIN  8 - 13
WRONG KEY SETT  8 - 13
21 - 16                          10 - 18
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE   8 - 13
WR/  8 - 13
 WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CO/  8 - 13
21 - 16                           5 -  8
22 - 17                          13 - 22
WRONG KEY SETTING. PLEASE CORRECT IT.
26 - 17 22                        0 -  5
16 - 13                           9 - 16
20 - 13 16                        6 -  9
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
13 -  6  9                        2 -  9
```

```
PLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
HEADS - HAVE I WON
                                PLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
HEADS - HAVE I WON
                                        8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU DONT FOLLOW THE INSTRUCTIONS I CANT PLAY WITH YOU. TRY ONCE MO
I REFUSE TO WASTE ANY MORE PLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
                                        8 - 13
YOU MUST PLAY AT ONCE OR RESIGN.PLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
                                        8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.PLEASE READ THE INSTRUCTION CARD
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
PLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
HEADS - HAVE I WON
                                        8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.


    8 - 13   8 - 13   8 - 13   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
YOU MUST PLAY AT ONCE OR RESIGN.
LEARNED THE GAME INSTRUCTIONAD THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
                                        8 - 13
YOU MUST PLAY AT ONCE OR RESIGN.  8 - 13 PLEASE READ THE INSTRUCTION
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
                                        8 - 13   8 - 13   8 - 13   8 - 13


YOU MUST PLAY AT ONCE OR RESIGN.  8 - 13   8 - 13   8 - 13   8 - 13 8
QZDRAUGHTSCONEROUGH
QZDRAUGHTSCTWOROUGHPLEASE READ THE INSTRUCTION CARD.
SHALL WE TOSS FOR THE FIRST MOVE. WILL YOU SPIN A COIN
TAILS - HAVE I WON
                                        8 - 13
YOU MUST PLAY AT ONCE OR RESIGN.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU DONT FOLLOW THE INSTRUCTIONS I CANT PLAY WITH YOU. TRY ONCE MO
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.  8 - 13
WRONG KEY SETTING. PLEASE CORRECT I/  8 - 13   8 - 13
WRONG KEY SETTING. P/  8 - 13
21 - 16                            5 -  8
WRONG KEY SETTING. PLEASE CORRECT IT.
22 - 17                           13 - 22   8 - 13
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAIN.
KINDLY READ THE INSTRUCTIONS AND START THE MOVE AGAIN
IF YOU   8 - 13
WRONG KEY SETTING. PLEASE CO/  8 - 13
21 - 16                            5 -  8
22 - 17                           13 - 22
26 - 17 22                         0 -  5
16 - 13                            9 - 16
WRONG KEY SETTING. PLEASE CORRECT IT.
PLEASE START THE MOVE AGAINY
```

The complete programme for draughts as printed out by the computer

D2/B 1

10.7.52

```
ME GE@/
/½
X/"ZOZE/

C½P/ / VK/E
EJ/L E VK/J
E:TN @ VK/A
E:/M A VKLO
W//P : FRLG
E:TI S E:/O
:CQO I ZCLG
SK/T U F½PT
F½PT ½ S:/O
XCQG D /:LJ
F½PZ R C½IS
SCQO J /:L/
D:/O N X//P
A:/Q F :CQO
/:L/ C LA/T
IKYO K /:LJ
USQO T C½IS
@CQG Z IST/
@CQB L ½½PD
@N/L W ½½PA
WCQO H £J/P
:KQG Y N½IS
:KQB P SCQO
PC/J Q FU/T
OC/A O :CQO
PC/S B E:/O
E:YG G £J/P
PN/V " MCTI
"//P M N½PA
L//V X OU/P
C½IS V F½PT
C½I@ £ E:/O

/R
UJMUEGBJ

A:/Q / E:QG
D½PT E V@/T
A@/T @ ½@@/
½N/L A @A/:
KCPG : E:/C
S:/O S VK/N
OKT/ I P½PA
JR/J U IA/L
VS/U ½ /:QO
NS/P D N½PL
/CPG R VKQB
ICT/ J P½PL
USTJ N E:/O
ICTA F £J/P
UA/P C KCPG
VKPO K LA/O
AA/P T E:QG
E:QO Z S:/O
HC/C L F//W
E:/M W I/T:
ISTI H W:TN
A:/Q Y WA/M
GKTA P L½T/
T½P/ Q /½/S
VK/S O T½T/
H½PR B @½/S
MKTA G H½T/
MK/R " :½TA
MK/A M DSQG
VK/R X TCPG
Y@/I V VKQG
MK/N £ LK/P
```

D2/B 2

10.7.52

GE ME/I
/½
DXL½HIIN

N½PZ / GCTJ
£J/P E T½IS
F½PT @ GCT/
A:/O A DSTJ
GC/E : H½PR
S:/Q S VK/S
SCQO I S:/O
A:/O U OCT/
GC/S ½ DSTJ
OCT/ D VKTR
OC/S R PCTJ
H½PR J H½PA
E:TN N F½PT
GI/H F XE/T
ICQO C C@/L
A:/O K VKPB
DCT/ T FCPG
E:/Q Z CU/T
/KT/ L VKPO
DSTJ W LCPG
PCTR H ICT/
E:TN Y USTJ
A:/M P ICTA
/:LO Q :E/P
E:/Q O FU//
USLO B @S/C
OI/V G MC/N
L½P/ " MC/A
OCTJ M UST/
PCTJ X SCTD
L½IS V SCTA
T½P/ £ E//P

DR/B 3

10.7.52

VE MEER
/½
YHPIZFHY

//// / MCTA
//// E JN/Q
//// @ USLO
//// A GN/V
//// : @C/S
//// S AC/S
//// I A:QO
//// U MCT/
//// ½ E:/Q
//// D VKTK
//// R VK/S
:A£D J N½PR
"EEZ N E:TN
½E// F A:/M
/CT/ C ½JT:
N½PA K E:/Q
USLO T UST/
D½PT Z @CQI
E:/O L @CUS
USQG W E:QG
D½PZ H CJ/T
A:/Q Y ACHO
EI/V P IKYO
/:LO Q F½PT
I½P/ O E:/O
L½IS B SKYG
½½P/ G ICHG
T½IS " E:/O
R½P/ M WCHO
H½IS X :KHB
SCTB V :CQO
/ST/ £ YR/V

DR/B 4

10.7.52

£E I@@N
/½
XSNBH"BZ

EJ/T / MKTF
SCQO E MKTA
DS/T @ MKHG
N½P/ A MKHG
MCTI : A:QG
ACQO S D:NC
A:/O I VK/N
@CQG U X£HI
CN/T ½ DCMR
MCTI D NF/T
N½PA R GKTJ
E//P J VKYB
/:LG N VN/V
DS/T F VK/Q
HE/V C PR/P
SCQO K VK/S
A:/O T T½P/
PCT/ Z DSTJ
E:/Q L VKTR
L½P/ W VK/S
ACQO H L½P/
E:/O Y DSTJ
H½PR P VKTR
VKTA Q /:/P
EC/C O GC/S
S:/N B T½PR
MK/A G SKYG
GK/S " VKTA
:KHO M MKT½
MKQO X A:TI
S:/Q V MKTA
GKTA £ AJ/P

DR/B
5
10.7.52

/R
DVONY££F

//££ / £££££
//// E £U//
//// @ /UOE
//// A C///
//// : ////
//// S R///
//// I J///
/OEC U ££//
TA// ½ H:/C
T£££ D VS/F
££A/ R L:/J
/UOE J MK/A
CTA/ N XK/:
R/E/ F £ST/
//// C UKTR
R/E/ K MK/S
P£V£ T MKQO
QV££ Z //QT
P£££ L £SQB
Q/O£ W FS/P
@/// H ////
//// Y ////
//// P FRIL
//// Q MEEZ
//// O "@WT
//// B QEEZ
//// G ////
//// " ////
//// M ////
//// X ////
UOEC V ////
TA// £ ////

DR/B
6
10.7.52

```
XE ½@@/
/½
UUHNZ"I:

//// / ////
L½P/ E ////
E:YO @ ////
A:/Q A ////
GKTA : ////
T½P/ S ////
MK/S I /:TO
H½PR U A:QG
A:QO ½ U:/T
VK/S D HC/C
V:/C R VK/N
WET/ J E:YG
MKQR N U@/T
V/TA F GKTN
MKUN C RSTR
MKUA K VKTA
WET/ T AA/P
MKQR Z ////
/ETA L /@TI
MKUN W £///
MKUA H £///
WET/ Y ////
MKQR P ////
@ETA Q ////
MKUN O ////
MKUA B ////
HET/ G ////
MKQR " ////
:ETA M ////
LETO X ////
//// V ////
//// £ ////
```

DR/B 9

10.7.52

```
/R
TPOIZBIV

//// / ////
E/// E //EO
E/// @ GE@/
@/// A @A/:
E/// : /:/P
@/// S ////
@/// I EE/I
A/// U VSTA
E/// ½ ID/:
@/// D MU/:
@/// R VDQO
A/// J T@QB
@/// N ADQO
A/// F AAQB
A/// C XUQO
:/// K @AQB
E/// T MUT/
@/// Z ":TI
@/// L G:TI
A/// W VKTA
@/// H VK/:
A/// Y XU/:
A/// P MUQO
:/// Q @AQB
@/// O £K/:
A/// B NS/P
A/// G EAQG
:/// " VKQB
A/// M VK/:
:/// X ½D/P
:/// V AA/P
S/// £ ////
```

DR/B 10

10.7.52

OE ½/@/
/½
ACZ/YPS@

//// / E/EC
//// E S/QO
//// @ /:PO
//// A @E/G
R/// : /@IZ
I/// S DSPG
H/// I E:QG
J/// U AE/T
Q//: ½ GE/:
/E/: D BE/:
VK/Z R £U/:
S:QO J ://C
/@Q/ N I@/N
/½US F Y:TI
I½QA C VKTA
A:QG K VKQO
U//T T FCQB
VKQO Z £UT/
£:QG L ":TI
½//T W VKTA
VET/ H VK/:
VSTA Y ://P
NS/P P ////
E//: Q ////
VKT/ O ////
W:TR B EE/I
W:TN G ½/R/
D//H " EE/N
"E/: M P@@D
£F/: X HEEZ
MET/ V KEZM
I//P £ WEEZ

DR/C Master 1

10.7.52

/R
//:/££A/

££A/ / ////
//// E ////
//// @ ////
££A/ A ////
//// : ////
//// S ////
E/// I ////
//// U ////
//// ½ ////
//// D ////
//// R ////
//// J ////
//// N ////
//// F ////
//// C ////
//// K ////
//// T ////
//// Z ////
//// L ////
//// W ////
//// H ////
//// Y ////
//// P ////
//// Q ////
//// O ////
//// B ////
//// G ////
//// " ////
//// M ////
//// X ////
//// V ////
//// £ ////

DR/C Master 2

10.7.52

/WE IE@/

/½
ZR:XNQDE

DR/C 1

10.7.52

AST/ / V:/J
E:QO E P@/H
A/PO @ /:ZG
VK/S A YE/T
F:T/ : V:/C
B//V S EE/P
E:TN I OKT/
Q//V U U:TN
S:/H ½ FE/J
N//I D S//P
P@/H R K///
Z:T/ J ////
S:/Q N A///
E:QG F L@½D
@//T C PEEZ
A:QO K "£££
VKT/ T KEHO
E:TN Z YE/P
W//M L N@//
V£/I W @@//
P@/H H SE//
£:PG Y XA//
D//T P XA//
U:TI Q ¼T/
M/TI O VKTJ
V//J B @½TA
VS/U G VKT/
NS/P " R½TR
CA@D M E:TN
HEEZ X :D/E
£E@D V E:TI
HEEZ £ R½TJ

/R
M"RDQWM@

DR/C 2

10.7.52

:½TA / MKTA
X:T/ E VK/N
/:/P @ VK/A
@½T/ A MK/@
VKTJ : MK/A
@½TA S MKQO
VKT/ I VKT/
:DQO U NE/Q
E:/O ½ Y:/C
RETR D VKTA
:½TJ R VK/N
:½TA J E:QG
F:/P N KE/O
DSLG F VK/S
VKT/ C E:TN
/½TJ K E:/M
/½TA T PE/P
VKT/ Z O:TN
:½TR L PE/H
:½TJ W E:/Q
:½TA H PE/H
F:/P Y VKT/
£/// P VK/J
/:HG Q @DTJ
E:/O O @D/A
NEHO B E:LG
VK/Z G HA/T
£KTB " E:TN
VKTF M HE@H
YE@H X DSLG
VKT/ V DST½
P@TR £ U//P

HE ½E@/
/½
FRIVNXH/

VSTA / /EZ:
YE/: E EEEE
/:£O @ @EHS
£:HG A AEAE
Q//T : :EL:
//HE S SESE
£/HG I IEIE
VKTA U UEUE
J:/C ½ ½EW:
XK/N D DEDE
XK/U R @/RE
MK/U J H/JE
MKPO N W/NE
J:UC F FEFE
£/IN C M/CE
MK/U K "/KE
C/TR T B/TE
GKTA Z /:ZE
GKYO L /:LE
RESP W /:WE
YE/: H FSHE
MK/J Y /IYE
TE/: P PEPE
U/T: Q /@QE
E/S: O @@OE
A:/P B :@BE
/:QO G ½@GE
E:/Q " /R/R
£EQO M MEME
/EI: X "@XE
A:/P V £@VE
£££" £ H///

DR/C 3

10.7.52

/R
J½:OVG:"

/DHO / "AWO
DSHG E E:LO
E:/O @ DSZO
J@:P A H@T:
A:HG : AS/J
U@/T S X:/J
AA/: I DATI
@A/V U AA/P
D@/V ½ QA//
K@/P D //ZM
:A/W R WEEZ
USTN J DAEH
JAYO N LIAT
U@/H F EE//
NAYO C /:ZG
U@/P K ½A/T
FA/: T DSWG
£E/: Z ½A/T
OKT/ L DSHG
S:TN W /DHB
X@/J H /:HO
VS/U Y /A/P
NS/P P /:ZG
FA/: Q KS/T
GE/: O E:LO
VE/: B /DHB
Y:PO G A:/O
PKT/ " V£££
AA/P M VA/:
DA½D X £A/:
PEEZ V RE/@
"AHO £ REE@

DR/C 4

10.7.52

should be EE/I on Tape
////

A
/R
G:SMJVKH

LP½: / P/TS
ESAE E /YAL
AER/ @ O/TA
HT/D A /ECN
NI/E : R/RO
URTS S GISE
OITC I "F@N
AC/N U /I½:
":DR ½ IALC
AHS½ D HT/M
W/LL R AG/E
OT/E J "/EM
F/SS N RW½:
T/RO F /GNO
F/EH C /YEK
TSRI K TTES
VOM/ T @GNI
YF@E Z P/YF
LIW/ L SAEL
OY/L W OC/E
PS/U H CERR
A/NI Y TI/T
IOC/ P /"F@
"½:N Q /@//
//// O D@//
M@/S B O@//
AH/Y G V@//
I/EV " UA//
NOW/ M NA//
"WL@ X MAHT
OY½: V O@YB
UM/U £ DS/P

DR/C 5

10. 7. 52

YE REA@
/½
PODTYYMS

/I½: / /YRT
UFER E ECNO
T/ES @ ROM/
AW/O A /"/E
/ETS : IK½:
/YNA S YLDN
EROM I AER/
MIT/ U HT/D
YF@E ½ NI/E
/OG/ D URTS
/DNA R OITC
YALP J A/SN
TIW/ N S/DN
/A/H F TRAT
AMUH C EHT/
EB/N K VOM/
"GNI T GA/E
FI½: Z "NIA
UOY/ L LP½:
NOD/ W ESAE
BO/T H ATS/
T/YE Y T/TR
I/EH P M/EH
RTSN Q /EVO
ITCU O IAGA
/SNO B "F@N
AC/I G /@//
P/TN " Z@//
/YAL M :A//
HTIW X LA//
UOY/ V GAHT
/YB@ £ DS/P

/R
G:SMJVKH

EBAE £ PYAB
AER/ @ O/TA
HT/D A /FCN

DR/C 6

10.7.52

PE NE@/
/½
TTB£YCKR

R/// / VK/N
//// E KE/I
B/T/ @ SE/:
VSTA A VE/:
NS/P : S:PG
MA/: S UET:
U:PO I EEIT
E½L/ U DE/P
DSTJ ½ Y//J
U½LR D E@/:
GK/S R VE/:
VKTA J U½L/
//T£ N DSTJ
VK/@ F E½LR
K//I C MK/S
A:/Q K ///P
VK/J T R½T/
V:/J Z GKTR
VK/A L E:TN
//TN W S:/M
C//H H :½T/
VK/J Y MKTR
S:/M P E:TN
VE/: Q E:/M
S:/Q O XE/P
£@£D B V//J
"EEZ G XA/:
V:/J " YE/:
X//: M MA/:
//TI X VE/:
VKTA V Q:ZG
V:/K £ E½W/

DR/C 7

10.7.52

/R
½JHIU@CH

U½WJ / P@/T
MKTA E KS/P
MK/@ @ //A/
MK/@ A V:/J
///I : Z@/H
F:TN S VK/Z
N@/H I VKQO
F:TI U E:/T
VKTA ½ I½T/
VKQO D /½TA
VAQG R VK/Z
E:/O J VKLO
KAQG N U:/Q
/:Q/ F P@@D
MKTJ C HEEZ
MKTA K QV££
/:Q/ T S:WO
@AZG Z /½W/
///P L I½WA
K:T/ W A:WG
W@/V H MA/T
E:TN Y £A/:
L@/V P /:LG
H@/H Q FAT/
///I O E:/O
Z@/H B U:TI
X:T/ G VSTA
E:TN " NS/P
X@/H M TAH/
G@/I X //Y/
Z@/H V ½E//
E:LG £ /E½I

DR/C 8

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QE YE@/
/½
KX£DV/JU

I@PO / E:TN
A:/Q E :@/M
A:QG @ MKT/
E:/O A @½TR
A:QO : E:TN
/@Q/ S A:/M
/IIS I A:PG
A:PG U :@/P
/IIS ½ E:TI
A:PG D :½TR
E:/T R E:TN
J:PO J A:/M
O:T/ N /:HO
MKTA F S@/P
A:/Q C A:HO
A:QG K S@/P
U@/O T E:TI
E:PG Z :½TR
WA/T L E:TN
P@/: W A:/M
///G H S:HO
T//P Y E:/Q
:@QO P U@HO
/AQ/ Q //SC
VKTA O /IP/
VKPG B TA:N
£KYO G /IIS
IS/C " A:PG
MK/N M /IP/
MK/A X OA:N
MKT/ V /IIS
/½TR £ :@/P

DR/C 9

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/R
MYJFHO½P

£/£/ / V£££
£/£/ E J://
/£/£ @ V///
/£/£ A £://
C/// : V£££
PE// S J://
VE// I @£££
I/// U £://
/½T½ ½ V£££
E:/M D E://
ISTI R V///
/½TA J Y://
/:LG N V£££
L@/T F E://
K@/: C E£££
Y:ZG K Y://
W@/T T :///
NS/P Z R///
T@// L R///
F@// W Y///
DSWO H R///
S:/Q Y :///
/E/R P Y///
//£/ Q R///
Q@ZO O R///
/AWO B :///
E:LO G Y///
A:/Q " R///
DSLO M :///
E:WO X R///
VSTA V R///
DS/P £ Y///

DR/C 10

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```
"E BE@/
/½
FQB£MIVK

@E// / "FQO
E//: E OAQG
VK/Z @ VKQB
VKWO A VK/:
£:WG : £F/:
U:/O S VS/U
//QO I NS/P
MEQ/ U R///
TEQA ½ V£££
A:QG D ////
WA/T R "@WT
KET/ J QEEZ
½ETJ N :/½D
KETA F PEEZ
UEQO C EE/N
TE£/ K £££££
/½QA T VIW/
A:QG Z ////
HA/T L ////
O//: W "MA/
O//: H ////
A//: Y ////
A//: P VPA/
RET/ Q ////
KELO O ////
A:/O B "MA/
K/ZO G ////
A:/Q " ////
U/ZO M VPA/
U:TN X ////
NE/J V ////
CE/: £ "MAT

/R
VLD":DLG

//// / E:LO
//// E O//:
VPA/ @ O//:
//// A A//:
//// : U/ZO
BXAT S KELB
//// I //QO
//// U TEQ/
VPA/ ½ MEQA
//// D A:QG
//// R YA/T
BXAT J UEQO
//// N /½Q/
//// F TEQA
£IA/ C A:QG
//// K PA/T
/E// T E//:
BXAT Z NET/
//// L QA/P EE/P
//// W I///
£IA/ H C///
//// Y IA//
/E// P JA//
BXAT Q V///
//// O //O£
//// B //// D½QO
£PA: G //// E:/O
//// " //// USQG
//// M //// D½QB
"XAT X //// QA/P
//// V ////
//// £ ////
```

DR / Record 1

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DR/Record 4

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