



Einstein Magazine

& ALL MICRO NEWS

Number 107

NOTICE!

YALE, N. C., SEPT. 26, 1855.

AS OUR LAST RAIL FROM
THE PACIFIC
HAS BEEN LAID IN
Eagle Pass to-day,

And the balance of work undertaken by the CANADIAN PACIFIC RAIL-
WAY COMPANY between Sayona and point of junction in Eagle Pass will
be Completed for the Season on WEDNESDAY.

**ALL EMPLOYEES
WILL BE DISCHARGED**

On the Evening of September Thirtieth.

Application for position in the Operation Department for the present may be
made to M. J. HANEY, but the above portion of line will not be operated until
Notice is given to that effect by the Vice President.

ALL ACCOUNTS

Should be liquidated before the TENTH PROXIMO, at Yale, as the books of the
Company should be closed on that day.

A. Onderdonk.

FREE DISKS

JOHN MARRIOTT has about a thousand computer disks to give away (or to dump). If you want your share, send him a suitable envelope, addressed to yourself and bearing 54p stamps.

They are mainly standard PC-type 720Kb disks, suitable for use on your Einstein if you have fitted an internal or external 3.5" drive, but John does have a few 3" disks to go if you don't have a 3.5" drive and didn't take advantage of his previous offer of one, set up for you to use as an Einstein boot drive.

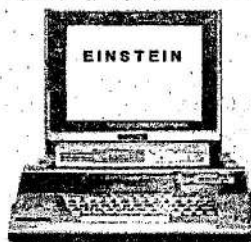
If you want some free 3.5" disks, send John a Jiffy-type envelope (preferably the bubble-pack air-cushion type), or failing that, a stout manilla envelope lined with bubble-wrap, of a suitable size to take 8 disks, clearly addressed to yourself, and with postage stamps on it to the value of 54p.

If you didn't take advantage of John's earlier offer of a 3.5" disk drive set up to run on Einey, and need 3" disks, mark this on the envelope, but the supply is limited.

John says that he believes they are all in good working order but he doesn't have the time or energy to test them, or to deal with telephone calls about his offer. If you want the disks, just send the envelope for him to put them in, and he'll supply them in good faith but without any guarantee or warranty.

CUT-OFF DATE ON THIS OFFER IS TWO WEEKS AFTER THIS ISSUE OF THE EINSTEIN MAGAZINE GOES OUT, so don't delay if you want your free disks.

54p stamped suitable envelope please, with your name and address clearly shown, to JOHN MARRIOTT, 121 HILL BARTON RD, EXETER. EX1 3PP



Einstein Magazine

& ALL MICRO NEWS

Number 107

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by RPM Society.

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Einstein Webb Site:

http://members.lycos.co.uk/tatung_enstein

<http://members.lycos.co.uk/albertstc01>

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Printed by British Printing Society Cinque Ports branch members

What's the Difference

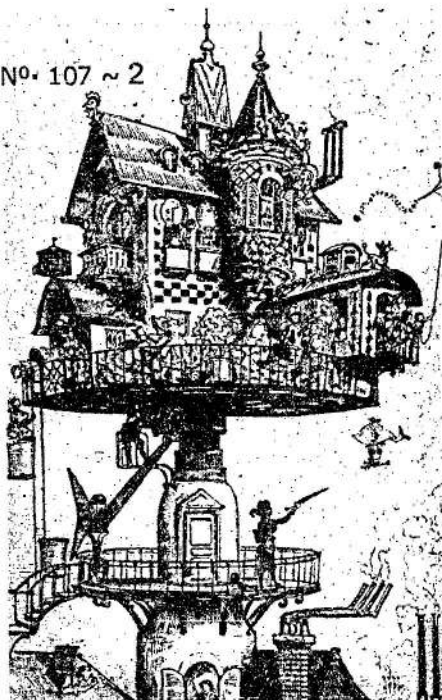
BETWEEN AN EINSTEIN
AND AN ADANA?

By Tony Adams

Well, we all know what an Einstein is, but not everyone will know that, an Adana is a small printing press, usually hand-operated (though there is a rare larger power-operated version) which uses traditional lead type and conventional printing ink. It can also use blocks, electrotypes, Linotype or Intertype slugs (i.e. cast lines o-f type) and photopolymer plates (which can reproduce photocopies D+ text, drawings, or anything of that sort). They can also be adapted for use in hot-foil printing of paper, card, tinfoil or other flat objects.

Most Adanas are tabletop machines. The smaller size prints 3 x 5 inches and the larger prints 8 x 5 inches -- this is octavo (i.e. half a quarto sheet), so at a pinch it could just about print a page of this magazine at a time. The earlier flatbed Adana machines and the rare power press version can print a full quarto (8 x 10 inches) sheet in one go.

What's the Einstein connection? Well your illustrious user group organiser and magazine printer/publisher is also the Hon.Sec. of the Cinque Ports Branch of the British Printing Society when he's wearing another of his many hats, and BPS has encountered exactly the same problems as the Einstein and its user group as the introduction of digital technology has resulted in the decline of traditional (letterpress and other? forms of printing, and as the all-conquering Windoze computer has swept everything before it in the last few years, bringing in your living-



room. professional-quality coloured printing into your home in the last few of a computers that is just another taken-for-granted item of domestic white goods that doesn't need a user group, in the same way as electric toasters, kettles, phones and TV don't need one.

In the past decade the British Printing Society has dropped from 2,000 to 500 members, which re-fleets what happened to the Einstein group before I took it on some eight years ago. The main problem BPS has is that it cannot keep its existing members, and new that Microsoft Windoze has colonised everything and everyone in sight; its failure to conceal this loss o-f existing members can no longer be hidden by recruiting new ones. Conversely, our group cut its loss o-f existing members to an infinitesimal level when I took over, but a few awkward people -- or their Einsteins -- will still insist on dying every now and again, or in giving in to Windoze when their family hold their heads under the surface of the cold greasy washing-up water and refuse to let them up until they agree to order a new Windoze computer from the mail order catalogue, and we have had the same problem as BPS for a long time now, of a sad lack of new members.

Our branch has now put together a rescue package for BPS -- nearly 9 years after doing the same for the Einstein user group -- which is based on the fact that traditional printing now not a current industrial process, but is a very important part of our heritage. Reviving BPS is therefore based on actively bringing it before the public as a live celebration of an extremely important part of our national heritage -- much as is done with steam railways, obsolete farm and military equipment, and so much more of our heritage instead of leaving it standing dead and lifeless in museums. If you are interested in reading our comprehensive "strategy for renewal" report, Tony will be delighted to send you a copy in return for a postage stamp and a note of your address to our New Romney HQ.

Sadly, despite a lot of head-scratching, no obvious way of doing the same for the Einstein computer has yet occurred to your illustrious leader. Any ideas? ---@@@---

...the Holy Grail !

By John Marriott ©February 2002

Yes, at long last - an 80 track double sided 3.5" boot drive! This is an actual re-write of an article I sent Bob about 10 days ago, and had the distinct feeling that I would be following it up with an article named "...the poisoned Chalice?" - based on a number of points, failings, misconceptions ... and an early morning phone call (not from Bob, let's say the Torquay area?) with the "suggestion" that I "could" be infringing a Program Copyright by the simple expediency of letting somebody having a disk to "test" on one of my TCO1's that I'd lent him - not the person who phoned me - not wishing to muddy the waters further!

So - you should have your original Xtal System 5.0 disk, which should NOT have been modified in any way and I would suggest that you check this as follows. Ensure its "write protect" tab is set, switch on your TCO1 without any disks in order to boot up in MOS mode - put your System 5.0 disk in and enter R10002A00<e> then T10001120<e> which should result in the display 00 EI 00 FB 00 FA OC FF etc., at &1100 the display C3 1A E5 18 48 25 02 3F 00 etc., at &111F the display 43 6F 70 79 72 69 67 68 74 20 28 43 29 20 31 39 38 33 2D 38 37 2C 20 43 72 79 73 74 61 6C 20 45 6C 65 63 74 72 6F 6E 69 63 73 09 E2 00 00 06 25 B8 CA 16 E5 D3 24 C7 00 etc., and at &1181 the display 3A 45 FB CB 57 28 OA 3E OA D3 48 3E 60 D3 with the continuation of the DOS 2.05 bytes.

Alas, if you have some modification, something to auto-load from boot-up showing in &1108 on- why? Never use/modify ANY master disk! If you can't stand the thought of "losing" that auto-load function then the following will provide the "Holy Grail" but at the price of making ALL four drives 80TDS - see later!

If your master disk looks "original" then do a BACKUP 3" copy (new disk preferred) of it and work from the COPY - shan't warn you again. Red button reset your TCO1 without any disks in, COPY 3" into DO: and R10001200<e> M1006<e> and

overwrite (what should be OC) with EE<e>.<e> and W10001200<e> (configures DO: 40TSS and D1-3: 80TDS). Red button reset with that COPY disk in DO: and a 720K type 3.5" disk in D1: (again, new disk preferred) and with BACKUP format the 3.5" disk to 80TDS and on exiting back to the 0:> prompt enter COPY *.* TO 1 :<e> with a Y to each prompt.

Red button reset with no disks in, then 3.5" disk into D1: and R1000120000001 <e> M1006<e> overwrite the EE with 77<e>.<e> then W1000120000001 <e> and set the write protect tab on the 3.5" disk. This is your new master disk - mark it so, also the information that (on boot up) it configures your drives to DO-2: 80TDS and D3: 40TSS - use it only to do BACKUP operations!

The following carries a "health warning" as you've got to change the drive jumpers - the 3" from 0: to 3: and the 3.5" from 1: to 0: and I can't stress enough the fact of making sure that just about everything is switched off AND unplugged as Murphy's Flaw will always ensure that any small washer will instantly fall and bridge a high voltage charged electrolytic capacitor to a CMOS chip...

...one very dead TC01 -ouch!

Back issues of EM covered the fitting of extra 3.5" drives, drive change over switches & etc. - and seeing how well cased the TC01 drives are, they can survive quite well outside of the TC01 for transferring material off your 3" disks onto the new 3.5" boot disks should you want double 3.5" drives resplendent in your TC01.

Okay - drive links done, then power up with your new 3.5" boot drive and do a DIR of DO: and then D3: (...put a disk in it!). If you want to stay with a 3.5" and 3" drives, then instead of the value 77 use 11 for a drive configuration of DO: 80TDD and D1-3:40TSS and change the 3" drive link to 1:

Now - for some weeks, months I've been chasing "I don't know what" as I've been working from a copy of my original System 5 disk which wasn't a true copy due to "auto load" programs from

boot up which had the very strange effect of ***king-up how DOS 2.05 accessed its DIR MCAL, or to be more exact, the disk parameter table. My "minimal" route was to overwrite what I found in &1006 with FF (initially 77, but...) and &2764 (was A9) with D6 then writing back the DOS tracks to disk and accepting the fact that I was now stuck with all drives being 80TDS...and it was that last byte which the "Phonee" considered a Copyright infringement.

Whilst I've not tried writing to these new boot disks any "auto load" program which resides in the DOS tracks and seeing the effect, my feelings are that as this type of action materially alters the contents and application of the DOS tracks/program (seems that part of the problem is the overwriting/erasure of the "Crystal Electronics" Copyright notice in that area of the DOS tracks), I wonder if that "Phonee" contacted those Companies regarding something Crystal Research put into Public Domain - or is that something I've also got the wrong end of the stick, or were Crystal Research open enough to acknowledge that NO program will ever be completely bug free... ..even MOS 1.21 was modified yet still called MOS 1.21, so there! And incidentally, the words "Crystal Electronics" - not "Crystal Research" as you'd expect?

A couple of other points - part of my "search" led me to come to grips with a "no name" Disassembler resulting in nearly 200 pages of 70 lines A4 of the MOS 1.21 ROM and the DOS 2.05 tracks, getting to grips with the MCAL &CF, embedded text, dimension tables and what have you - which all disassemblers at this level/era try to fool you as they try to make sense of any/all ROM/RAM values they come across. Those who've tried will know the agony I mean - almost like watching the European Song Contest whilst sober!

Incidentally, a sneaky printer problem is the simple fact that the TC01 omits lines 35/36 which causes some distress to a fair few printers as they expect to find "something" on line 36 - it seems to be those printers with both Centronics and RS-232 Serial interfaces which are most prone. I simply short those lines at the printer end of the ribbon cable.

In some ways I'm less than pleased that the "Holy Grail" hasn't been in some far, distant, exotic land - but stuffed stuck under our noses, in plain sight - the distraction of a simple auto load program to set up the function keys (in my case) with the name DO FUNK and if that wasn't a hint, what wasn't?

Still... more learnt, and a slight extension to Albert's life?

----@@@----

Re Inking Printer Ribbons

By Stan Gibbs

It is very easy to re-ink printer ribbons if a little care is taken. The ribbon cases are held together by small pegs which push into small holes. There are two pegs, one each side of the gap where the ribbon is exposed, and more at various points around the outside of the case. On most cases there are small slots around the edge - these aid the insertion of a small screwdriver to lever the case apart. Be very careful; follow the opening gap around the case prising apart by small amounts. When the halves come free, carefully note how the ribbon runs round the inside of the case. Sometimes one half has a guide built in that needs the ribbon to follow around, if this isn't noted you may disturb the ribbon, and it's not always easy to figure out how it should run.

I used a product called RE-INK to do the job but it occurs to me that if you used the ink that is used to replenish stamp pads and applied it with a small brush across the top of the ribbon, the result would be the same and cheaper. (Ed. has it been tried?) RE-INK, at the last count, was £7.95 a go but will do many more ribbons, so amounts to the same cost each. I have re-inked one of my ribbons four times with complete success, but bear in mind that ultimately the ribbon will be too worn to absorb the ink properly.

'RE-INK' is available from OFFICE LAND tel: 01202-666155
No.10 Sterte Close, Poole, Dorset BH15 2AT (near Poole Key)
Also suppliers of some PCW equipment. ----@@@----

X-HATCH.XBS

```

5 REM X-HATCH by Tom Crossfield
6 REM Monitor/TV Screen Pattern Generator
10 GOTO 170
20 CLS40:GCOL15,0:BCOL0
30 ORIGIN 0,0:X=0:Y=0:Z=0:F=192
40 FOR A=0 TO 15:X=X+16:DRAW X,Y TO X,F,Z
50 NEXT A
60 F=255:X=0:Y=0:Z=0
70 FOR A=0 TO 10:Y=Y+16:DRAW X,Y TO F,Y,Z
80 NEXT A:A=INCH:GOTO 170
90 CLS:BCOL 1:X=16:Y=0
100 FOR A=2 TO 15:ORIGIN X,Y
110 DRAW 0,0TO15,0TO15,175TO0,175TO0,0
120 FILL 9,9,A:X=X+16:NEXTA:A=INCH:GOTO 170
130 CLS:RESTORE:X=0:Y=0:BCOL 1
140 FOR A=0 TO 6:ORIGIN X,Y
150 DRAW 0,0TO31,0TO31,175TO0,175TO0,0
160 READ N:FILL 9,9,N:X=X+32:NEXT:A=INCH
170 PRINT CHR$(20):ORIGIN 0,0:BCOL 1:GCOL15,0:CLS40
180 DRAW 0,0TO255,0TO255,183TO0,183TO0,0
190 DRAW 0,175TO255,175:TCOL15,4
200 PRINT@18,0;"M E N U"
210 PRINT@3,3;"1..COLOUR BARS(EIN) 2..CROSSHATCH "
220 PRINT@3,5;"3..COLOUR BARS(TV) 4..DOT PATTERN"
230 PRINT@3,7;"5..VERTICAL          6..HORIZONTAL "

```

```

240 PRINT@13,9;"7..RETURN TO BASIC"
250 PRINT@9,17;"X-HATCH by Tom Crossfield";
260 N=KBD
270 TCOL4,15:PRINT@15,12;"PLEASE SELECT"
280 FOR F=1 TO 160:NEXT
290 TCOL15,4:PRINT@15,12;"PLEASE SELECT"
300 FOR F=1 TO 160:NEXT
310 IF N<49 OR N>55 THEN 260
320 TCOL15,0
330 ON (N-48)GOTO 90,20,130,360,380,410
340 BCOL4:RST:END
350 DATA 15,10,7,2,13,6,4
360 TCOL15,1:CLS:FOR F=0 TO 39 STEP2
:FOR G=0 TO 23 STEP2:PRINT@F,G;".":NEXT G,F
370 A=INCH:GOTO 170
380 CLS:ORIGIN 0,0:X=0:Y=0:Z=0:F=191
390 FOR A=0 TO 15:X=X+16:DRAW X,YTOX,F,Z
400 NEXT A:A=INCH:GOTO 170
410 CLS:F=255:X=0:Y=0:Z=0
420 FOR A=0 TO 11:DRAW X,Y TO F,Y,Z:Y=Y+16
430 NEXT A:DRAW X,191TOF,191,Z:A=INCH:GOTO 170

```

Ed. I found this program to be very handy recently whilst fixing problems with TCO1s colour output and setting up the TM01 display. Watch out for monochrome 80 column display jitter when stacking the TM01 above - for simultaneous viewing. I found you need 6 inch gap or 1/2 inch steel plate between to eliminate the effect of the heavier flux of the colour tube.

-----@@@-----

Anagrammatics - PC prog.

```

REM *****
REM *           A N A G R A M M A T I C S           *
REM *      Written for PC (QBAS) by D. Williams 08/00      *
REM *****
SCREEN 9: COLOR 15, 0: GOSUB title: GOSUB Intro
10 : CLEAR : GOSUB title: DIM A$(18), T$(12):
15 LOCATE 5, 10: INPUT "Enter a word : ", T$: L = LEN(T$)
IF L > 12 OR L < 3 THEN LOCATE 5, 10: PRINT SPC(68); : GOTO 15
T$ = UCASE$(T$): LOCATE 5, 25: PRINT T$; "    ("; L; "letters)."
DIM Z$(15), Q$(115), B$(115), C$(40)
FOR A = 1 TO 114: READ Q$(A): NEXT
FOR A = 5 TO 12: READ Z$(A): NEXT
P = 1: N = L
FOR A = 1 TO L: P = P * N: N = N - 1: IF N = 0 THEN 20
20 NEXT: IF P < 120 THEN Z = P ELSE Z = 40
IF L = 3 THEN 30 ELSE IF L = 4 THEN 50 ELSE IF L > 4 THEN 70
REM ***** 3 letters *****
REM Three letters only.
30 LINE (162, 96)-(470, 184), 15, B
FOR A = 3 TO 1 STEP -1: B$ = MID$(T$, A, 1): C$ = C$ + B$: NEXT
FOR A = 97 TO 111: V = VAL(Q$(A)): IF A = 97 THEN X = 8
IF A = 103 THEN X = 16 ELSE IF A = 109 THEN X = 24
IF A = 97 OR A = 103 OR A = 109 THEN
LOCATE 10, 20 + X: PRINT ;
PRINT CHR$(ASC(MID$(T$, V, 1)));
W = W + 1: IF W = 3 THEN W = 0: PRINT " ";
NEXT A: LOCATE 10, 48: PRINT "----": GOSUB 340: GOSUB three
LINE (163, 97)-(469, 183), 0, B

```



```

LOCATE 22, 30: PRINT "I think it is: ": DRAW
"C15BM350,293R120D16L120U15"
40 A$ = UCASE$(INKEY$): IF A$ = "" THEN 40 ELSE B = ASC(A$)
IF B = 8 THEN 40
Z$ = Z$ + A$: LOCATE 22, 46: PRINT Z$
IF Z$ <> C$ AND B = 13 THEN LOCATE 22, 45: PRINT SPC(14); : Z$
= ""
IF Z$ = C$ THEN BEEP ELSE 40
LOCATE 10, 48: PRINT C$: PAINT (400, 182), 4, 15: GOSUB 340
SLEEP 3:
FOR B = 0 TO 2: LOCATE 21 + B, 43: PRINT SPC(20); : NEXT
LOCATE 22, 28: PRINT "Press Enter to continue."

45 A$ = INKEY$: IF A$ = "" THEN 45 ELSE Z = ASC(A$)
IF Z = 13 THEN 10 ELSE 45
REM ***** 4 letters *****
50 : REM 4 letters only.
LINE (162, 96)-(470, 184), 15, B: N = 4:
FOR A = 4 TO 1 STEP -1
IF A = 3 THEN N = 1 ELSE IF A = 2 THEN N = 3 ELSE IF A = 1 THEN
N = 2
B$ = MID$(T$, N, 1): C$ = C$ + B$: NEXT

FOR A = 1 TO 92: V = VAL(Q$(A))
IF A = 1 THEN X = 1 ELSE IF A = 25 THEN X = 2
IF A = 49 THEN X = 3 ELSE IF A = 73 THEN X = 4
IF A = 1 OR A = 25 OR A = 49 OR A = 73 THEN LOCATE 8 + X, 26
PRINT CHR$(ASC(MID$(T$, V, 1)));
W = W + 1: IF W = 4 THEN W = 0: PRINT " ";
NEXT A:
LOCATE 12, 51: PRINT "----": GOSUB 340: GOSUB Four

```

LINE (163, 97)-(469, 183), 0, B

LOCATE 22, 30: PRINT "I think it is: ": DRAW
"C15BM350,293R120D16L120U15"

60 A\$ = UCASE\$(INKEY\$): IF A\$ = "" THEN 60 ELSE B = ASC(A\$)

IF B = 8 THEN 60

Z\$ = Z\$ + A\$: LOCATE 22, 46: PRINT Z\$

IF Z\$ <> C\$ AND B = 13 THEN LOCATE 22, 45: PRINT SPC(14); : Z\$
= ""

IF Z\$ = C\$ THEN BEEP ELSE 60

LOCATE 12, 51: PRINT C\$: PAINT (400, 182), 4, 15: GOSUB 340
SLEEP 3:

FOR B = 0 TO 2: LOCATE 21 + B, 43: PRINT SPC(20); : NEXT

LOCATE 22, 28: PRINT "Press Enter to continue."

65 A\$ = INKEY\$: IF A\$ = "" THEN 65 ELSE Z = ASC(A\$)

IF Z = 13 THEN 10 ELSE 65

REM ***** Above 4 letters *****

70 REM Not less than 5 letters. Max = 12.

LINE (80, 86)-(560, 248), 15, B: COLOR 15: PAINT (100, 200), 2,
15

FOR D = 1 TO 4: FOR E = 1 TO 10: FOR A = 1 TO 3:

80 B = INT(100 * TIMER): RANDOMIZE B: B = INT(RND * L) + 1

C = INT(RND * L) + 1: IF B = C THEN 80

A\$ = MID\$(T\$, B, 1): MID\$(T\$, B, 1) = MID\$(T\$, C, 1)

MID\$(T\$, C, 1) = A\$

NEXT A: A = 0: IF L > 9 THEN A = 3 ELSE A = 1

LOCATE 7 + E, D * (L + 15 - L) - A: PRINT " "; T\$; " ";

NEXT E, D: GOSUB Qty: GOTO 110

LINE (80, 86)-(560, 248), 15, B: COLOR 15: PAINT (100, 200), 2,
15

```
90 RANDOMIZE INT(1000 * TIMER): X = 15 * INT(RND * 4): C =
INT(RND * 75)
```

```
B = INT(RND * L): X = X + B: y = INT(RND * 10) + 1: IF C < 65
THEN 90
```

```
IF L > 9 THEN X = X - 2
```

```
100 LOCATE 7 + y, 15 + X: PRINT (CHR$(C)): COLOR 15
```

```
IF Q = 5 THEN LOCATE 23, 25: PRINT "Press Enter key to start
again.": GOTO 110
```

```
GOSUB Gue
```

```
110 A$ = UCASE$(INKEY$): IF A$ = "" THEN 110
```

```
IF ASC(A$) = 13 AND Q = 5 AND A = 10 THEN 10
```

```
IF A$ = "C" AND Q <> 5 THEN 90
```

```
IF A$ = "H" AND Q = 5 THEN COLOR 12: A = 10: GOTO 100
```

```
GOTO 110
```

```
REM ***** Data statements *****
```

```
DATA 1,2,3,4,1,2,4,3,1,3,4,2,1,3,2,4,1,4,2,3,1,4,3,2,2,3,4,1,2,3,1,4
,2,1,4,3
```

```
DATA 2,1,3,4,2,4,3,1,2,4,1,3,3,4,2,1,3,4,1,2,3,2,1,4,3,2,4,1,3,1,2,4,
3,1,4,2
```

```
DATA 4,3,2,1,4,3,1,2,4,2,3,1,4,2,1,3,4,1,2,3,4,1,3,2
```

```
DATA 1, 2, 3, 1, 3, 2, 2, 3, 1, 2, 1, 3, 3, 1, 2, 3, 2, 1
```

```
DATA "120", "720", "5,040", "40,320", "362,880", "3.63 million"
```

```
DATA "39.92 million", "479 million"
```

```
REM ***** SUB ROUTINES *****
```

```
title: REM all.
```

```
CLS : DRAW "C15BM7, 5 R625 D339 L625 U339": PAINT (2, 2), 2,
15
```

```
LOCATE 3, 34: PRINT "ANAGRAMMATICS": DRAW "C15BM264, 43
R104": RETURN
```

340 :

FOR N = 112 TO 154 STEP 14

FOR y = N + 6 TO N + 9

FOR X = 203 TO 432 STEP 8: PAINT (X, y), 4, 15: NEXT X, y, N:

RETURN

three:

LOCATE 17, 17: PRINT "It is possible to make up 6 different anagrams"

LOCATE 18, 17: PRINT "using three different letters in your word "; T\$; "."

LOCATE 19, 17: PRINT "Above, are 5 anagrams. Input what you think the"

LOCATE 20, 17: PRINT "6th should look like, then press Enter key.": RETURN

Four:

LOCATE 17, 17: PRINT "It is possible to make up 24 different anagrams"

LOCATE 18, 17: PRINT "using four different letters in your word "; T\$; "."

LOCATE 19, 17: PRINT "Above, are 23 anagrams. Input what you think the"

LOCATE 20, 17: PRINT "24th should look like, then press Enter key.": RETURN

Qty: REM Greater than 4.

LOCATE 20, 10: PRINT "If your chosen word is made up of"; L;
PRINT "different letters then it"

LOCATE 21, 10: PRINT "is capable of producing up to "; Z\$(L);
PRINT " different anagrams."

LOCATE 23, 28: PRINT "Press key C to continue."

RETURN

Gue: REM Greater than 4.

FOR A = 0 TO 3: LOCATE 20 + A, 10: PRINT SPC(65); : NEXT: Q = 5
LOCATE 20, 9: PRINT "One of the 40 anagrams reproduced above
from your word";

PRINT " contains": LOCATE 21, 9: PRINT "a printed error. Can you
find it ?"

SLEEP 5: LOCATE 23, 28: PRINT "Press key H to expose it."

RETURN 110

REM*****INTRO*****

Intro:

A\$(1) = "For many years people have been fascinated by the make-
up"

A\$(2) = "of anagrams and have often whiled away the pleasant
hours"

A\$(3) = "seeing how many small words they could make from one
long"

A\$(4) = "word - I know I did. It was only recently however, that I"

A\$(5) = "became aware of the similarity between solving an
anagram"

A\$(6) = "and working out the number of finishing orders in a horse"

A\$(7) = "race. This affinity even extends to the choices one often"

A\$(8) = "makes in horticulture. I wonder how many gardeners
realise"

A\$(9) = "that if they planted 4 bulbs, each of a different colour,"

A\$(10) = "in 4 separate holes, then they can use up to 24 different"

A\$(11) = "planting positions to produce different colour patterns."

A\$(12) = "The anagrams produced by this program are not
restricted"

A\$(13) = "only to words found in a dictionary, hence the reason for"

A\$(14) = "limiting the displays to a maximum of 40 words at a time."

A\$(15) = "I am sure you will be surprised at the number of anagrams"

A\$(16) = "that can be produced and the speed at which this occurs."

FOR A = 1 TO 16: LOCATE 4. + A, 12: PRINT A\$(A): NEXT

LOCATE 23, 26: PRINT "Press Enter key to continue."

120 A\$ = UCASE\$(INKEY\$): IF A\$ = "" THEN 120

IF ASC(A\$) = 13 THEN GOSUB title: RETURN 10

GOTO 120

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Thermal PRN Tip

By John Briggs 17-1-94

The other day I happened to notice my seldom used Brother HR5 printer. This set me thinking (ouch), I seem to remember some one enquiring about ribbons for this type of machine which incidentally is a thermal printer, if any one is having trouble getting thermal ribbons or wants a cheaper way to use this type of printer. Do as I do, that is to use fax machine paper, which is a cheap paper which produces a clear if dotty print-out. The only disadvantage is the paper is very thin and flimsy.

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Ed. As you will be aware I haven't be coming up we the regular EMs, I could go into the lengthy details why this is, busted PC, lack of input, other commitments... but essentially ducking what I must do, and convey right now I cease to be Editor - this is my last EM.

However, Tony may wish to put out A4 copies of items in hand and articles sent to him.

I shall continue hacking on Albert and pass on to Tony and the regular contributors my programs and findings.

Best wishes, to all readers.

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CHANGE OF EDITOR, EFFECTIVE IMMEDIATELY

As Bob Deeley notes, this issue of our Einstein Magazine is his final one as Editor.

Bob stepped in as Editor at short notice when it became clear that Ted Cawkwell couldn't continue because of his major health problem.

Once upon a time, in a far distant land called "The Past", the Einstein computer was at the cutting edge of new technology, we had literally thousands of user group members, and a significant proportion of these were actively poking and peeking into the innards of Einey's hardware, software and operating system, and wanting to share their knowledge of what made it all tick with the rest of us.

Sadly, the Einstein is now like all too many of us. It has a wonderful future behind it.

Its user numbers have dwindled, as has input to our journal. Ted had retired and was able to write up his investigations into Einey, and with input from others this enabled us to keep the magazine alive. Bob has more demands on his time and energy, and doesn't like to badger people to provide input, and now feels that he is better occupied investigating than editing the all too sparse input from others.

If YOU would like to take on the editor's role you are welcome to have a go, but input is sparse and you would need to provide most of it yourself. Meanwhile, if YOU have any input for publication -- Einey, related items or matters of more general interest -- or have submitted something that has not yet appeared in print, please send it to Tony.

There have been problems with missing mail at New Romney, so for now please send ALL mail c/o 12 DUNSTALL CLOSE, ST MARYS BAY, ROMNEY MARSH, KENT, TN29 0SY, not to New Romney.

CATTLE MEN READ THIS!

Great Inducements to those who wish to
Ship Cattle on the U. P. Railroad!!

Having entered into special arrangements with the U. P. R. R. Company, by which I can ship Cattle East at greatly reduced rates, and having selected a point between Carter and Church Buttes Stations some ten miles East of the former place, near the junction of the Big and Little Muddies, and having Constructed Commodious Lots and Extensive Enclosures, and the Company having put in a Switch capable of holding 40 Cars, I will be Prepared to Commence Shipping on or before the 15th of the Present Month, and will be able to promptly ship any Number of cattle that may be Offered.

Persons driving Cattle from Montana and Idaho, and passing by Soda Springs and the Bear Lake Settlements, will cross over from Bear River to the head of Little Muddy and follow down that stream, over a good road, to within a mile and a half of the junction of the Little with the Big Muddy, where they will cross a bridge and find a rich pasture, extending many miles; good water & perfect security for their stock, within convenient distance of the stockyards.

The cattle yards are in an enclosure of some 400 acres and stock scales and all conveniences for shipping will be furnished. If parties do not wish to ship themselves, I will purchase, at good prices, all shipping cattle that may be offered. As cattle are now bearing excellent prices East, it would be well for persons to bring their Cattle forward as soon as possible.

For further particulars, address

W. A. CARTER,
Fort Bridger, Wyo. Ter.

Fort Bridger, July 2, 1877.