04E0:

0470:

0480:

0490: 0500: LIMMEN (NH)

THE NETHERLANDS

\*

\*:

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```
0510:
                                                * * * DEFINITIONS:
0520:
0530:
                                               *
SIZE * $0003
SIZEA * SIZE -01 ; SIZE - 1
SIZEB * SIZE +03 ; SIZE * 2
SIZEC * SIZE +02 ; SIZE * 2 - 1
PIADAT * $1740 ; PIA TO TEST KIM/TTY
INITRP * $17FE ; INTERRUPT BREAK TRAF
NMITRP * $17FA ; NON-MASKABLE INTERRU
0540: 0000
0550: 0000
0560: 0000
0570: 0000
0580: 0000
                                                                                                                    ; INTERRUPT BREAK TRAP
0590: 0000
                                                                                                              ; NON-MASKABLE INTERRUPT TRE
0600: 0000
 Ø61Ø:
 Ø62Ø:
Ø630:
                                                                                    $1F1F
0640: 0000
                                                 SCANDS *
                                                                                                                 ; DISPLAY DATA ON LED DISPLA
                                                 SCANDS * $1F1F ; DISPLAY DATA ON LED DISPLAY

GETKEY * $1F6A ; READ DATA FROM HEX KEYPAD

OUTCH * $1EAØ ; PRINT CHARACTER ON TTY

GETCH * $1E5A ; READ CHARACTER FROM TTY

CRLF * $1E2F ; PRINT CARRIAGE RETURN/LINE

PRIBYT * $1E3B ; PRINT BYTE AS 2 DIGITS

MONITR * $1CØØ
                                                GETKEY *
0650: 0000
 0660: 0000
0670: 0000
0680: 0000
 Ø69Ø: ØØØØ
 0700: 0000
0710:
                                                   * * * CHARACTER SET
 0720:
                                               *
PLUS *
MIN *
 0730:
                                                                                       $ØØ2B
 0740: 0000
                                                                                $002B
$002D
$002A
$002F
$0043
$0041
 0750: 0000
                                               MAAL *
DEEL *
CLRNUM *
CLRALL *
REP
                                                      MAAL **
DEEL **
 0760: 0000
 0770: 0000
 0780: 0000
 0790: 0000
 0800: 0000
                                                                                     $0052
 0810: 0000
0820: 0000
                                                      MEMIN *
                                                                                       $0049
                                                      MEMOUT *
                                                                                       $004F
 0830: 0000
                                                      PRCNT *
                                                                                     $0025
 0840: 0000
                                                    VRAAG *
                                                                                    $ØØ3F
 0850:
                                                      * START OF PROGRAM
 0860:
 0870:
                                                   START CLD
 0880: 0000 DS
                                                                                                                 ; INITIALIZE
                                                       SEI

      0890:
      0001
      78
      SEI

      0900:
      0002
      A9
      00
      LDAIM MONITR

      0910:
      0004
      8D
      FE
      #7
      STA
      INITRP

      0920:
      0007
      8D
      FA
      17
      STA
      NMITRP

      0930:
      000A
      A9
      1C
      LDAIM MONITR /

      0940:
      000C
      8D
      FF
      17
      STA
      INITRP +01

      0950:
      000F
      8D
      FB
      17
      STA
      NMITRP +01

      0950:
      0012
      A0
      00
      LDYIM $00
      ; RESULT AND

      0970:
      0014
      A2
      74
      LDXIM NULL
      ; MEMORY ARE BOTH

      0990:
      0015
      20
      13
      03
      JSR
      LOAD
      ; ZERO

      0990:
      0019
      A2
      7A
      LDXIM MEMRY
      LDXIM MEMRY

      1000:
      0018
      20
      27
      03
      JSR
      STORE

 0890: 0001 78
```

1010:				02	GETINP		INPUT		READ NUMBER + FUNCTION
1020:					WEDER		DATA		ADDRESS OF
1030:						LDYIM		į	DPERAND
1040:						CMPIM			
1050:	0027	DØ	05		_	BNE	NOADD		
1060:					*		ann		ADD OPERAND
1070:			_	พร		JSR	ADD		ADD OPERAND CARRY SET IN ERROR
1080:					NOODD	BCS	PROBLM	ī	CHRRY SET IN ERRUR
1090:					NOADD	CMPIM	NOMIN		
1100: 1110:	9000	שעו	<b>6</b> 00		*	BNE	MOUTH		
1120:	MMTO	20	47	aт	~	JSR	SUB	•	SUBTRACT OPERAND
1130:				<b>U</b> .5		BCS	PROBLM	-	CARRY CLEAR IS ERROR
1140:					NOMIN	CMPIM		•	
1150:					14011214	BNE	NOMAAL		
1160:	0003	20	-		*	2114	110, 11 11		
1170:	AZZB	20	SE	四国	•••	JSR	MPY	:	MULTIPLY OPERAND
1180:				•		BCS	PROBLM		CARRY SET IS ERROR
1190:					NOMBAL			-	
1200:						BNE	NODEEL		
1210:					*				
1220:	0044	20	AC	03		JSR	DVI	ţ	DIVIDE BY OPERAND
1230:						BCS	PROBLM	ţ	CARRY CLEAR IS ERROR
1240:	0049	C9	41		NODEEL	CMPIM	CLRALL		
1250:	004B	DØ	05			BNE	NOCLER		
1260:					CLEAR	LDXIM	NULL		
1270:				<b>Ø</b> 3		JSR	LOAD	Ŧ	JUST LOAD ZERO
1280:					NOCLER				
1290:	<b>0</b> 054	DØ	ØC			BNE	NOPER		
1300:					<b>*</b> :				
1310;				03		JSR	MPY	-	MULTIPLY BY
1320:						BCS	PROBLM	,	PERCENTAGE
1330:	005B	<b>A2</b>	77		_	LDXIM	EENHON		
1340:		~~	~~	~~	*	TOO	DUT		DIVIDE BY
1350:				63		JSR	DVI PROBLM		ONE HUNDRED
1360:	0000	BØ	<b>W</b> L		*	BCS	FRUDEN	,	ONE HONDRED
1370: 1380:	aaco	CO	52		NOPER	CMPIM	REP		
1390:					NOFER	BNE	NOREP		
1400:							DACCU		
1410:				ØΣ		JSR	LOAD		
1420:			-		NOREP	JMP	GETINP		
1430:					PROBLM		ERROR		
1440:						JMP	GETINP		
1450:									
1460:									
1470:									
1480:									
1490:									
1500:									

```
1510:
1520:
                        * * * PAGE ZERO DEFINITIONS:
1530:
1540:
                        NULL
                                        $00
1550: 0074 00
                                =
1560: 0075 00
                                        $00
                                =
1570: 0076 00
                                        $00
                        EENHON =
                                       $00
1580: 0077 00
                                       $Ø1
1590: 0078 01
                        =
                                       $00
1600: 0079 00
1610: 007A 00
                      MEMRY =
                                       $00
                               =
                                       $00
1620: 007B 00
                                        $00
1630: 0070 00
                    NUMCAR =
PREV =
ACCU =
1640: 007D 00
1650: 007E 00
                                       $00
                                       $00
1660: 007F 00
                                       $ØØ
                      ACCMSB *
ACCLSB *
DACCU *
DACLSB *
LOADAD *
ACCSAV *
                                       ACCU -03 ; ACCU - SIZE
1670: 0080
                                      ACCU +Ø3 ; ACCU + SIZE
ACCU +Ø6 ; ACCU + 2 * SIZE
1680: 0080
1690: 0080
                                       DACCU +02 ; DACCU + SIZE - 1
1700: 0080
                                       DACCU +Ø6 ; DACCU + 2 * SIZE
1710: 0080
                                       LOADAD +02
1720: 0080
                                       ACCSAV +01
1730: 0080
                       MULIND *
                                       MULIND +Ø1
1740: 0080
                       MULCNT *
                                       MULCNT +01
                      COUNT *
1750: 0090
                                        $00F9
1760: 0080
                       DATA
1770:
                                 ORG
                                       $0200
1780: 0200
1790:
                         * * * SUBROUTINE TO INPUT
1800:
                                DATA + FUNCTION
1810:
1820
                         *:
1830:
                        *:
                                THE RESULT IS SHOWN,
                                A NUMBER CAN BE KEYED IN
                         *:
1840:
                                FOLLOWED BY A NON-NUMERICAL
1850:
                         *:
                                KEY, WHICH CAUSES A RETURN
18E0:
1870:
                         * * * CLEAR INPUT, STORE IN MEMORY
1880:
                                AND GET FROM MEMORY ARE
                         *
1890:
                                PROCESSED IN THIS SUBROUTINE
1900:
1910:
                                                   ; PERFORM OUTPUT
                         INPUT LDXIM DATA
1920: 0200 A2 F9
                                                    ; FIRST
                                 LDYIM $00
1930: 0202 A0 00
                                      STORE
1940: 0204 20 27 03
1950: 0207 20 92 02
                                 JSR
                         WERONP JSR
                                       OUTPUT
                                                   ; CLEAR DIGIT-
; COUNTER
1960: 020A A9 00
                                 LDAIM $00
1970: 020C 85 7D STA NUMCAR ; COUNTER
1980: 020E 20 71 02 WERINP JSR INCHAR ; READ NEXT CHARACTER
1990: 0211 C9 43 CMPIM CLRNUM ; CLEAR NUMBER
2000: 0213 F0 EB BEQ INPUT ; RE-DISPLAY RESULT
```

```
CMPIM MEMIN
BNE NOMEMI
LDA DATA
STA MEMRY
LDA DATA
STA MEMRY
LDA DATA
STA MEMRY
LDA DATA
STA MEMRY
JMP WERONP
2010: 0215 C9 49
2020: 0217 D0 0F
2030: 0219 A5 F9
                                                   ; MEMORY IN
; DISPLAY NUMBER
2040: 021B 85 7A
                                                   +Ø1
2050: 021D A5 FA
                                         MEMRY +01
DATA +02
2060: 021F 85 7B
2070: 0221 A5 FB
                                                   +Ø2
                                           MEMRY +02
2080: 0223 85 7C
                                          WERONP
2090: 0225 4C 07 02
                                          MEMOUT ; NUMBER COMES
TESDEC ; FROM MEMORY
MEMRY ; DISPLAY IT
2100: 0228 C9 4F NOMEMI CMPIM MEMOUT
                          BNE TESDEC
2110: 022A D0 0F
                                 LDA
2120: 022C A5 7A
                                STA DATA
LDA MEMRY +01
STA DATA +01
LDA MEMRY +02
2130: 022E 85 F9
2140: 0230 A5 7B
2150: 0232 85 FA
2160: 0234 A5 7C
                                  STA DATA +02
2170: 0236 85 FB
                                   JMP
                                          WERONP
2180: 0238 4C 07 02
2190: 0238 C9 30 TESDEC CMPIM '0
2200: 023D 10 01
2210: 023F 60
                                   BPL GODEC
2200: 023D 10 01 BPL GODEC
2210: 023F 60 NODEC RTS
2220: 0240 C9 3A GODEC CMPIM $3A
                                                        ; LEAVE CHARACTER UNKNOWN
                                  BPL NODEC
2230: 0242 10 FB
; IT IS DECIMAL
                                                        ; FIRST DIGIT CLEARS
2300: 0250 38 NOTERS SEC
2310: 0251 E9 30 SBCI
                         SBCIM 'Ø ; OBTAIN VALUE
ROLA ; DIGIT LEFT POSITIONED
ROLA ; IN ACCUMULATOR
2320: 0253 2A
2330: 0254 2A
                                   ROLA
2340: 0255 2A
2350: 0256 2A
                                   ROLA
2350: 0256 2H
2360: 0257 A2 04 LDAIN
2059 2A ROLWER ROLA
ROL
                                   LDXIM $Ø4
                                                         ; SHIFT DIGIT IN
                          ROL
                                           DATA
2380: 025A 26 F9
2390: 025C 26 FA
2400: 025E 26 FB
2410: 0260 CA
                                           DATA +01
                                   ROL
                              ROL
DEX
BNE
INC
LDA
                                           DATA +02
2420: 0261 D0 F6
                                            ROLWER
                                         NUMCAR
2430: 0263 E6 7D
                                          NUMCAR
2440: 0265 A5 7D
2450: 0267 C9 07 CMPIM $07
2460: 0269 30 A3 BMI WERINP
2470: 0268 20 A8 02 JSR ERROR
2480: 0266 4C 00 02 JMP INPUT
                                                        ; TEST IF TOO MANY DIGITS
2490:
2500:
```

```
2510:
                     * * * SUBROUTINE TO READ A
2520:
                          CHARACTER FROM KIM OR TTY
2530:
                     *
                           OUTPUT IS IN ASCII
2540:
2550:
                     1
                     INCHAR LDAIM $01
2560: 0271 A9 01
                                             ; TEST IF KIM
                                  PIADAT
2570: 0273 20 40 17
                            BIT
2580: 0276 F0 16
                            BEQ
                                  TTYIN
                                             ; WAIT FOR NO KEY
2590: 0278 20 1F 1F
                     PUNTA
                                SCANDS
                            JSR
2600: 027B D0 FB
                            BNE
                                PUNTA
2610: 027D 20 1F 1F
                     PUNTB
                           JSR
                                  SCANDS
                                             ; WAIT FOR A KEY
                                  PUNTB
                            BEQ
2620: 0280 F0 FB
2630: 0282 20 6A 1F
                            JSR
                                  GETKEY
                                             ; IGNORE IT IF
                            CMPIM $15
2640: 0285 C9 15
2650: 0287 10 EF
                            BPL PUNTA
                                             ; BOUNCE
2660: 0289 AA
                            TAX
                                            ; CONVERT TO ASCII
2670: 028A BD FD 03
                            LDAAX ASCTAB
2680: 028D 60
                            RTS
2690: 028E 20 5A 1E TTYIN JSR
                                  GETCH ; TTY IS EASIER
2700: 0291 60
                            RTS
2710:
                     * * * OUTPUT NUMBER FROM
2720:
                           DATA AREA TO TTY IF CONNECTED
2730:
                     *:
2740:
                     OUTPUT LDAIM $01
2750: 0292 A9 01
2760: 0294 20 40 17
                            BIT PIADAT
                            BEQ
                                  ITSTTY
2770: 0297 F0 01
2780: 0299 60
                            RTS
2790: 029A A2 02
                     ITSTTY LDXIM $02
2800: 029C B5 F9
                            LDAAX DATA
                     WTYP
2810: 029E 20 3B 1E
2820: 02A1 CA
                            JSR
                                  PRIBYT
                            DEX
2830: 02A2 10 F8
                            BPL
                                  WTYP
2840: 02A4 20 2F 1E OUTYP JSR
                                  CRLF
2850: 02A7 60
                            RTS
2860:
                     * * * ERROR SUBROUTINE
2870:
2880:
                     #:
                     ERROR LDAIM $01
2890: 02A8 A9 01
                            BIT
                                  PIADAT
2900: 02AA 2C 40 17
                                  TTYERR
2910: 02AD F0 0A
                            BEQ
2920: 02AF A2 02
                            LDXIM SIZEA
2930: 02B1 A9 FF
                            LDAIM SFF
                     SETFUL STAAX ACCU
2940: 02B3 95 7F
                            DEX
2950: 02B5 CA
2960: 02B6 10 FB
                            BPL
                                   SETFUL
2970: 02B8 E0
                            RTS
                     TTYERR LDAIM VRAAG
2980: 0289 A9 3F
                                  OUTCH
2990: 02BB 20 A0 1E
                      JSR
3000: 02BE 4C A4 02
                            JMP
                                  DUTYP
```

```
3010: 0300
                           ORG $0300
                  * * * INTEGER PACKAGE 'INTCAL'
3020:
3030:
                     * #770110
3040:
                         COPYRIGHT (C) 1977, 1982
                     *
3050:
                          WESTVRIES COMPUTER CONSULTING B. V.
                   *:
3060:
                  * P.O. BOX 20
* OOSTZAAN
3070:
3080:
                    *:
3090:
                            THE NETHERLANDS
                   #:
3100:
                     * * * FUNCTIONS PROVIDED:
3110:
                   * * * FUNCTIONS TOST.

* LOAD, STORE, ADD, SUBTRACT,
3120:
                          MULTIPLY, DIVIDE
3130:
3140:
3150: 0300 86 8B BEGALG STX LOADAD
                                           ; GENERAL SETUP AND
                            STY LOADAD +01 ; INITIALIZE
STA ACCSAV
                    STY
3160: 0302 84 8C
3170: 0304 85 8D
3180: 0306 A2 02
3190: 0308 A0 00
                            LDXIM SIZEA
                            LDYIM $00
3200: 030A 94 82 CLRWER STYZX ACCLSB
3210: 030C CA
                            DEX
                            BPL
3220: 030D 10 FB
                                  CLRWER
3230: 030F A2 02
                            LDXIM SIZEA
3240: 0311 F8
                             SED
3250: 0312 60
                            RTS
3260: 0313 20 00 03 LOAD JSR BEGALG ; LOAD INTO 3270: 0316 B1 8B NLOAD LDAIY LOADAD ; ACCU
3280: 0318 99 7F 00
                            STARY ACCU
                             INY
3290: 031B C8
3300: 031C CA
                             DEX
3310: 031D 10 F7 BPL
3320: 031F D8 ALGOUT CLD
3330: 0320 A6 8B LDX
                                  NLOAD
                                             ; GENERAL EXIT
                     LDX LOADAD ; RESTORE REGISTERS
                            LDY LOADAD +01
LDA ACCSAV
3340: 0322 A4 8C
3350: 0324 A5 8D
3360: 0326 60
                             RTS
3370: 0327 20 00 03 STORE JSR BEGALG
                                           ; STORE FROM
; ACCU
3380: 032A B9 7F 00 NSTOR LDAAY ACCU
3390: 032D 91 8B
                            STAIY LOADAD
                         INY
3400: 032F C8
                      DEX
BPL NSTOR
3410: 0330 CA
3420: 0331 10 F7
3430: 0333 30 EA BMI
3440: 0335 20 00 03 ADD JSR
3450: 0338 18 CLC
                                 ALGOUT
BEGALG
                                             ; ADD INTO
                                             ; ACCU
3460: 0339 B9 7F 00 NADD LDAAY ACCU
                      ADCIY LOADAD
3470: 033C 71 8B
3480: 033E 99 7F 00
                          STARY ACCU
3490: 0341 C8
                            DEX
3500: 0342 CA
```

```
BPL NADD
3510: 0343 10 F4
3520: 0345 30 D8
                            BMI
                                   ALGOUT
                                             ; SUBTRACT FROM
                            JSR BEGALG
                     SUB
3530: 0347 20 00 03
                                               ; ACCU
                             SEC
3540: 034A 38
3550: 034B B9 7F 00
                     NSUB
                            LDAAY ACCU
                             SBCIY LOADAD
3560: 034E F1 8B
                            STARY ACCU
3570: 0350 99 7F 00
3580: 0353 C8
                            INY
3590: 0354 CA
                            DEX
                                   NSUB
3600: 0355 10 F4
                             BPL
                             BCS
                                  CLICAR
3610: 0357 B0 03
                     SETCAR SEC
3620: 0359 38
                                  ALGOUT
                             BCS
3630: 035A B0 C3
3640: 035C 18
                      CLICAR CLC
                            BCC
                                 ALGOUT
3650: 035D 90 C0
                     MPY
                             STX LOADAD
3660: 035F 86 8B
                             STY
                                   LOADAD +01
3670: 0361 84 8C
                                  ACCSAV
3680: 0363 85 8D
3690: 0365 A2 06
3700: 0367 B5 7E
                             STA
                             LDXIM SIZEB
                      WIMPY LDAAX ACCU
3710: 0369 95 84
                             STAAX DACCU -01
3720: 036B A9 00
                             LDAIM $00
                             STAAX ACCU
                                           -Ø1
3730: 036D 95 7E
3740: 036F CA
                             DEX
                             BNE
                                    WIMPY
3750: 0370 D0 F5
3760: 0372 A8
3770: 0373 A9 03
                             TAY
                            LDAIM SIZE
                            STA MULCNT
3780: 0375 85 8F
                             SED
3790: 0377 F8
3800: 0378 B1 8B
                      DUTLUP LDAIY LOADAD
3810: 037A 85 8E
3820: 037C F0 1C
                              STA
                                    MULIND
                                    NOAD
                              BEQ
                      PEUTER CLC
3830: 037E 18
3840: 037F A9 06
                              LDAIM SIZEB
                  SIA COUN
LDXIM $00
WERADD LDAAX ACCU
                              STA COUNT
3850: 0381 85 90
3860: 0383 A2 00
3870: 0385 B5 7F
3880: 0387 75 85
3890: 0389 95 7F
                             ADCAX DACCU
                              STAAX ACCU
3900: 038B E8
                             INX
                              DEC
                                    COUNT
3910: 038C CE 90
                                    WERADD
3920: 038E D0 F5
                              BNE
                   ULGO BCS
                                    ALGOUT
3930: 0390 B0 SD
3940: 0392 A5 8E
                             LDA
                                    MULIND
                             SBCIM $00
3950: 0394 E9 00
3960: 0396 85 8E
                              STA MULIND
                                    PEUTER
3970: 0398 D0 E4
                             BNE
                  NOAD LDXIM SIZEC
WUSTUR LDAAX DACCU
3980: 039A A2 05
                                            -01
3990: 039C B5 84
                              STAAX DACCU
4000: 039E 95 85
```

```
DEX
4010: 03A0 CA DEX *
4020: 03A1 D0 F9 BNE WUSTUR
4030: 03A3 86 85 STX DACCU
4040: 03A5 C8 INY
4050: 03A6 C6 8F DEC MULCNT
4060: 03A8 D0 CE BNE OUTLUP
4070: 03AA F0 B0 PULGO BEQ CLICAR
4080: 03AC 86 8B DVI STX LOADAD
4090: 03AE 84 8C STY LOADAD +01
 4010: 03A0 CA
                                  STA ACCSF
LDXIM SIZE
STX MULIN
LDXIM SIZEC
MOVDIV LDAAX ACCU
                                                      STA ACCSAV
 4100: 03B0 85 8D
 4110: 03B2 A2 03
                                                      STX MULIND
 4120: 03B4 8E 8E
 4130: 0386 A2 05
4140: 0388 B5 7F
                                                        LDXIM SIZEC
                                        STAAX DACCU
 4150: 03BA 95 85
 41E0: 03BC A9 00
                                                        LDAIM $00
 4170: 03BE 95 7F
                                                       STAAX ACCU
4180: 03C0 CA DEX 4190: 03C1 10 F5 BPL MOVDIV 4200: 03C3 A0 02 DIVLUP LDYIM SIZEA 4210: 03C5 A6 8E LDX MULIND 4220: 03C7 B5 87 TESWER LDAAX DACLSB 4230: 03CB 90 29 BCC FINDIV
                                                        DEX
 4180: 03C0 CA
BCC FINDIV
                                                     LDAAX DACLSB
BEQ NOCOMP
LDX MULIND
                                                                    MULCNT
 4330: 03DC F1 8B
4340: 03DE 95 85
                                         SBCIY LOADAD
STAAX DACCU
4360: 03E1 C8 INY
4370: 03E2 C6 SF DEC MULCNT
4380: 03E4 D0 F4 BNE DIVRE
4390: 03E6 B5 7C LDAAX ACCMSB
4400: 03E8 C9 99 CMPIM $99
4410: 03EA B0 A4 BCS ULGO
4420: 03EC 69 01 ADCIM $01
4430: 03EE 95 7C STAAX ACCMSB
4440: 03F0 D0 D1 BNE DIVLUP
4450: 03F2 CA NOCOMP DEX
4460: 03F3 88 DFY
 4350: 03E0 E8
4360: 03E1 C8
                                                       INX
 4480: 03F6 C6 SE FINDIV DEC MULIND 4490: 03F8 10 C9
                                             DEY
BPL
 4490: 03F8 10 C9 BPL
4500: 03FA 4C 5C 03 JMP
                                                                    CLICAR
```

	4755	70	ASCTAB	=	'Ø*	÷	Ø
4510:	03FD	30	HOLIHD		-	-	
4520:	<b>0</b> 3FE	31		=	' 1	;	1
4530:	03FF	32		=	'2	ï	2
4540:	0400	<b>3</b> 3		=	'3	;	3
4550:	0401	34		==	' 4	;	4
45EØ:	0402	35		=	'5	ţ	5
4570:	0403	3E		=	'E	ş	E
4580:	0404	37		=	<b>'</b> 7	;	7
4590:	0405	38		=	'8	ï	8
4600:	0406	39		=	'9	ţ	9
4610:	0407	2B		=	PLUS	;	A
4620:	0408	2D		=	MIN	ï	В
4630:	0409	2A		=	MAAL	Ŧ	C
4640:	040A	2F		=	DEEL	ţ	D
4650:	040B	43		=	CLRNUM	ţ	E
4660:	949C	41		=	CLRALL	;	F
4670:	040D	52		=	REP	7	AD
4680:	040E	49		=	MEMIN	Ŧ	DA
4E90:	040F	4F		==	MEMOUT	7	۲C
4700:	0410	25		=	PRCNT	ţ	+
4710:	0411	41		=	CLRALL	Ŧ	GO