



THE FORT'S USER GROUP

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#
# Treasurer                      Editor/Publisher
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May 1987

PRESIDENT'S COMMENTS - BY GARY COFFEE

On Sunday April 26, 1987 our user group's monthly Board of Directors meeting was held and Jeff York and I announced that we would both be resigning as president and vice-president - effective after the May 1987 user group meeting. This decision was a result of different circumstances for each of us and in both cases, for personal reasons. As many of you might know, I accepted a new job recently and I am totally involved in those new responsibilities. There is a lot of computer activity associated with this job and, as a result, I've purchased an IBM compatible computer to keep up with and better understand what is going in my area of business. As you may guess, my time has been fully engrossed with the NEW machine and my old faithful TI-99/4A is getting lonely (also looking for a new owner). Anyhow, this is a difficult letter to write because I have enjoyed my association with my TI for years and the many friends I have met in this user group. We have all come a long way together and I hope the small part I have played in the past months as president has been viewed to be a benefit to this great group of TI enthusiasts.

I have contacted Tom Carson and asked if he would again handle the arrangements to nominate and elect a new president and vice-president - he has agreed. To aid in an orderly transition, the Board of Directors would prefer to nominate and elect those new officers at the next meeting thus allowing some time to turn things over in an orderly fashion prior to the June meeting. Your cooperation would be appreciated on this matter.

Some comment about the presidents position in this user group. With the approval of you members, we have purchased a computer, monitor, and all associated peripherals necessary to run a user group in the past year. The computer is now housed in its own box and, as of the last meeting, the whole thing is now stored at our meeting place. The president (and the treasurer) no longer has to be concerned (or stuck with) the task of dragging the equipment to the meetings every month. This alone should make the job easier and more attractive to any one. The meeting agenda is pretty well set (could be improved) and there are generally good guidelines established now to run the program effectively. I will be willing to spend any necessary time to turn all records and plans over to the new president and work with him prior to the June meeting. In summary, everything is pretty well set for someone to step in and take it over - so don't hesitate - nominate your best choice and let's get it done!

Your Board of Directors are some of the best people I have ever worked with ANYWHERE and I would like to express my sincere appreciation to them all for their support and dedication over the time we have been together. Some personal comments:

- Jeff York has been a tremendous support and supporter in our time together - his even temperament and good nature has added a measure of strength to our "board" meeting when we have had some disagreements over the past year.

- Denny Przybyla (still have to look that spelling up) is by far the best secretary any organization could have - he has never missed an assignment and the minutes of all the meetings are accurate and concise.

- Tony Miller has helped me personally in more ways than I can put in writing. A good friend, a technical wizard, always helpful (he even fixed my car recently when I was stranded near his house), and most of all, always willing to get involved in whatever is needed in this group.

- Pat Murphy this one is really easy, the best damned newsletter editor in the business! Look back over past newsletters - not only has our newsletter grown but it has always been improving. Pat designed the logo on the front, has been improving the structure, and adding some of his own ideas to make it better. He always seems to get our articles at the last minute - does his editing - rushes around to get copies made - and most importantly, get the whole mess mailed in time for you to read in time for the next meeting. On top of all of that, Pat has been the head of publicity for the user group. He contacts various news media and arranges for free announcements of our meetings. He has designed the advertisement flyer for our meetings and has posted them all over town.

To all of you I say thanks - you have made my job easier but you have made the task of resigning harder - I'll miss it, I'm sure.

The next meeting of The Fort's User Group will be at the Shawnee Branch Library on Saturday May 9, 1987. The doors will open at 9am and the meeting will start promptly at 9:30am. See you all there!

MINUTES

Meeting of April 11, 1987

Submitted by Dennis B. Przybyla, Secretary

President Gary Coffee called the meeting to order shortly after 9:30 a.m. There were seventeen members and no guest in attendance. The Secretary's minutes of the March meeting and the Treasurer's report for April were published in the April Newsletter. The formal presentation of these reports at the meeting were omitted but submitted as published. There were no additions or corrections to the reports of the Secretary and Treasurer and the reports were approved as published.

Dave Bradtaueller made a motion that the club purchase the "Orphan Survival Handbook" by Ron Albright for the price of \$16.95. The motion was seconded and carried unanimously. Dave will handle the purchasing of the book.

Dave Bradtaueller again encouraged the membership to type up programs that appear in the exchanged newsletters which may be of interest to the membership. These programs should then be placed in the library. Jeff York donated to the club's library the book "How to Program in C". Pat Murphy informed the group that the new flyers for The Fort's User Group meeting announcement were now available. Members were encouraged to take some and place them on appropriate bulletin boards. Tony Miller announced that the club's paid membership now stands 27, consisting of 26 active and one subscribing member. After working the late shift, Ron Bishop did arrive while the meeting was in progress. He brought along an ample supply of the Myarc's flyer on the Geneve 9640, which were available to the members.

Bud Darr related that he would demonstrate an extended basic program on budget control. This was a basic program which he modified and wrote in extended basic. Bud had a problem, though, when he attempted to load his double density diskette program. The club's system has a single density disk drive! Bud is one of the three fortunate members with a double density system. Bud plans to save his program in single density and demonstrate it at the May meeting.

Gary Coffee let it be known that a board of directors meeting would be held at his home on April 19, 2 p.m. Gary also announced that the computer system is now lockable and henceforth will be kept at the library. Blair MacDermid announced that the Forth User Group meeting will be held on Tuesday, April 14, 7:00 pm, room 138 Neff Hall, on the IPFW campus.

As stated above, our paid membership now stands at twenty-six active and one subscribing member. Kenneth Mahoney was the door prize winner. He received three blank diskettes.

The closing of the official business meeting was followed by a very informative general discussion. Topics discussed were the Dayton Hamfest, TI and IBM versions of Multiplan, a new TI word processor, 40 column program for TI extended basic, 32K card, plus other thoughts relating to the TI world. Gary Coffee then demonstrated his Myarc's ramdisk and extended basic version 2.12. After the demonstration, there were at least six members who had their TI-99/4A's, which were due for a reconditioning job. With Tony Miller's guidance, I'm quite sure these members were successful in the computer reconditioning project.

The next meeting will be held on Saturday, May 9, at the Shawnee Branch Library.

Membership/Treasurer
by
Anthony W. Miller

Treasury report for the month of APRIL:

DEBITS	
OLD BALANCE.....	\$360.44
UPS(MYARC COMP.).....	\$ 8.50
HARDWARE.....	\$ 15.48
STAMPS.....	\$ 43.10

BALANCE.....	\$293.36
CREDITS	
MEMBER(1).....	\$ 15.00
INTEREST.....	\$ 1.92

NEW BALANCE.....	\$310.28

This has to be one of the hardest newsletters that I have had to sit down and write. As you all know, we are losing two of the best officers to the BIG BLUE (or clones which most people are getting). It makes me sad to see we can lose officers this fast. With all of the work that we have put into this user group to make it as great as it is. The benefits that we have gotten out of this group the last two years is overwhelming compared to what most of us have put into it. But the people of Gary Coffee and Jeff York have contributed so much of their time and effort to make this group as great as it is now, it makes me sad to see them step down.

But as they say, life goes on. This is the time that I would like to say THANK YOU to Jeff and Gary for all of the work that they have done and to the time that they have contributed to this user group. Also, I wish them the best of luck in their future endeavors. BEST WISHES and GOOD LUCK Gary and Jeff.

>>>EDITOR'S NOTES<<<
by P. Murphy

This month there are some new programs to review. These programs became available the last couple of months. It is good to see that there are still fine programs being written for the TI-99/4A! All of the programs, to be briefly reviewed, are very helpful and excellent programs.

First, there is MEMOCAL! Memocal is an assembly program written to keep track of every day or week or month appointments, schedules, occasions or reminders with a hard copy by month or year available! Each day can have up to 7 memos 1f up to 16 caharacters each and saves these days to disk automatically after ending each month. Up to ONE year can be stored on a SS/SD disk, 3 on DS/SD, 7 on DS/DD. A calendar is displayed with the input screens showing the day being worked on. Available from TRITON, P.O. Box 8123, San Francisco, CA 94128 for \$19.95. Also from TRITON, MUNCHMAN II, a sequal to to one of TI's more popular games for \$19.95

There is now a program that takes off where "DEP" (Display Enhancement Program) left off! There are assembly routines that use CALL LINKS for 40 column display to buffers to text storage to windows to scrolling in a window! Write to: Paragon Computing, 17 Constance St., Merrimack, NH 03054. Routines and doc's are \$10, \$20 for total user guide.

Version 2.0 of "PC-Keys" is now available. It is written to reside in the lower 8k of the 32k memory. It is similar in use to "SIDEKICK" available on IBM. There is a disk catalog utility, a calculator, a screen dump program, and a notepad and user defined keys for always used commands like "RUN" or "CALL CLEAR" or "NEW" or whatever is defined! \$23.99 + \$1.50 for shipping will pay for this from: TECHNI-GRAPHICS, 1058 Perda Lane, Des Plaines IA 60016.

FUNNELWEB VERSION 3.4

There is a new version of FUNNELWEB...V3.4 from the land down under. There are many new features with this version...I will discuss a few of these features. For a complete and very well written review, see the April issue of BITS BYTES PIXELS available in our library, written by Charles Good.

One improvement is the reduced keystroke loss when in wordwrap mode of TI-WRITER. If typing fast in TI-WRITER, it was not uncommon to lose a keystroke. This is nearly eliminated with this version. Another improvement is Version 3.5 of DM1000 on the FUNNELWEB disk.

The title screen, when booted up, has 18 choices, 16 of which are user defined. One of which is DISKPATCH, an improved version of DISKO. The sector and byte number where the cursor is in the sector, is shown. ASCII and Hex editing is available. And a disk directory is also available with this version.

The filename being used remains in memory...so you can switch in and out of TI-WRITER and Editor/Assembler and see this filename displayed whenever you are loading or saving the file. An excellent program. Send a donation to: Tony Will McGovern, 215 Grinsell St., Kotara 2285, NSW Australia.

Next, there are two programs I have typed in and have given to our library. I received the listings from another user group letter. I believe the programs are from TIGERCUB in Ohio. One program makes your printer type with Chinese characters and the other prints a 3 x 5 (note card type) disk catalog. Very nice!

Finally (the best for last) is a public domain program from our neighbors in LIMA, OHIO called CHECKBOOK WRITER. This program (kindly sent to us by the LIMA USER GROUP via Charles Good) is an excellent program that will write checks on your printer and keep a balance on four books! The printed checks can be your standard checks inserted into your printer (STAR or EPSON type) individually or one could use bank bought checks on tractor feed format! The program also includes a window calculator for additional computations in your checkbook. There is also a program called RECONCILE which is used to reconcile bank statements. Very, very nice! Thanx to C. Good and M. Nomina the author. I have included copies of the CHECKBOOK WRITER program in this issue, next month I will include a listing of the RECONCILE program. Both programs are in our library for your use! Until next month...

ORPHAN PROGRAMMING CORNER --> BY JEFF YORK

By now most of you have read the "President's Comments" section of our newsletter and know that Gary and myself have decided to step down from our offices to allow some "new blood" to continue the tradition of this great little orphan. I'm sure that this must be quite a surprise for some, in fact it is a decision I personally made a short time ago. I would like to give you what little words of wisdom I can muster. The following is my own personal feelings: first, I recently decided to buy an IBM compatible computer with the help of Uncle Sam who saw fit to bless me with a very sizable tax return, this decision has been planned for years, delayed only by the lack of funds; second, I do not intend (at least at this time) to sell my TI. I believe that there is much life left in this little PC. I am moving up to a more powerful machine that will allow me to program in the state-of-the-art languages and not total TI abandonment; third, I am going to be working on a project for work over the summer that combined with learning my new IBM machine, will leave me very little time for anything else; last, I didn't intend for this column to be one of excuses but that of informing the group of my plans. I would still like to contribute an occasional newsletter but not on a regular basis. My schooling this past semester has given me a lot of insite into relational databases and I would enjoy passing some of that information on to you.

Now that that is said I would like to encourage you to strongly consider one of the forthcoming offices. The rewards for getting involved are best appreciated by getting involved and seeing what you have been missing. I think that group has a good structure and will continue to get better; just make it happen. One thing to take note of is that our group has gained many new members within the last six months and this should provide our group with the opportunity of gaining new knowledge.

CLOSING THOUGHTS...

The one sure thing in this life is that people and situations are constantly changing. To continue to grow and learn we must adapt to these changes and turn them into advantages not the reverse. You the members of this group now have this opportunity and I am confident that you will continue to grow and become stronger. The reason for a users group is to tap the knowledge and insite that others have to give. Personally, I would like to thank the Fort's User Group, the people who make it special, and all that I have gained since my membership.

Until some new tomorrow... Jeff York

LIBRARY NEWS ##
by Bryon DeLaBarre

We have many new additions to the club library. Besides an excellant memory-checking disk written by Tony Miller we have recieved a diskette of programs from the Cincinnati Users group. We also now have a copy of PILOT 99 and TI-REWRITE (the condensed instructions of TI-WRITER).

The Cincinnati disk contains the following:

- > ALBUMFILE - creates a database for cataloging tapes, records, and songs.
- > BOOK//FILE - as albumfile with authors and books.
- > CALL/PEEK - prints out peek memory locations.
- > CKWRIT4/1 -\
- > CKWRIT:DOC > creates a database for checking account:also prints checks.
- > CKWRIT4/2 -/
- > COMPOUNDIN - compounding interest program.
- > FILEREADER - needs debugging.
- > LOTTERY - will give you random lottery numbers.
- > PHONE/BILL - makes a phone call database.
- > SONGBOOK - needs debugging.
- > TAPE/FILE - use data statements to create a tape catalog.
- > TIWOVERLAY - prints a TI-WRITER overlay strip for the console.

Keep the donations coming in and until next month, Bryon DeLaBarre.

W.I.S.H. LIST

- WISH GAC0686...A terminal emulator program that would transfer a complete disk rather than one file at a time.
- WISH TM0686...Would like a ribbon cable connector (female) for a 36 pin .100" card edge connector.
- WISH GAC0786...A program that would download different fonts to a dot matrix printer i.e., script, gothic, roman, etc.
- WISH BCD0886..Would like a ribbon for a GORILLA BANANA and info on how to access the printer in graphics mode.
- WISH JY0886...A program that converts CALL LOAD statements into assembly language source code.
- WISH BCD0986..Would like a used expanded system (RS232 Optional), at least one disk drive and 32K memory expansion.
- WISH GCC1286..Would like a cassette cable and educational programs or modules (primary level).

- ANSWER GAC0686...Use FREEMWARE program "MASS TRANSFER" available from Stuart Olson, 25322 W. Wayside Place, Lake Villa, IL 60046. Program now in user group library.
- ANSWER TM0686...Connectors you want are available from PILGRIM'S PRIDE, 5 Williams Lane, Hatboro, PA 19040
- ANSWER JY0886...The program to convert CALL LOAD to ASM. LANGUAGE source or object code has been written by Tom Freeman of LA99ers and is in our library.
- ANSWER GAC0886...Program called OLDENG prints any TI-WRITER file in old english letters - also Character Sets and Graphics Design III provides 6 full character sets - can be purchased from TEXAMENTS.

THIS IS A LISTING
OF THE CHECKBOOK
WRITER "LOAD" PROG.

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5 GOTO 140
9 ! ##### FREEMARE ###
#####
10 !Version (4.4) [04/14/87]
FOR DSK1. WITH NO CLOCK AND
FOUR ACCOUNTS.
15 !Version 4.41 4/18/87 with
minor modifications by Charles
Good
20 ! Needs X-BASIC & 32K. Printer
optional but very useful. CorComp
Triple-Tech clock card optional.
25 ! Disk access from line numbers
230,260,310,355,420,720,1050,1300,1430,3220,3240.
Change these lines if not using
on DSK1.
30 ! Lines 2860 thru 2950 control
physical placement and printing of
small checks. Alter these if your
checks differ slightly from mine.
40 ! ##### CHECKBOOK
WRITER #####
50 ! #####
#####
60 ! ##### BY MELVIN E. NOMINA
##### RR#3. BOX 132 DELPHOS
OH. 45833 #####
70 ! THANKS TO CHARLIE GOOD ON HIS
SMALL CHECK PRINTING ROUTINE.
75 ! Lima Ohio User Group
90 A$,AB$,AB1$,AQ$,B$,C$,C4$,C44$,
CC$,CONT$,D1$,D2$,D3$,D4$,D5$,D6$,
D7$,K$,M$,M1$,M10$,M100$,M11$,M12$,
M13$,M14$,M15$,M16$,M17$,M18$,M19$,C$,
C1$,M0$
100 M1K$,M2$,M20$,M2K$,M3$,M30$,M3K$,
M4$,M40$,M4K$,M5$,M50$,M5K$,M6$,M60$,
M6K$,M7$,M70$,M7K$,M8$,M80$,M8K$,M9$,M90$,
M91$,M9K$,P0$,PRI$,Q$
110 Q12$,Q6$,R$,RR$,S8$,T$,U$,V$,W$,
X$,Y$,Z$ :: A,A3,AA,H,I,I1,I2,II,J1,K,K1,
KJ,KP,KX,M,NB,OB,P,PO,PP,PS,PX,R,S,T,T1,
T3,V,X,Y,YZ,BB,TD,TT,RE,OC,AC,FB,SC,EP,C

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120 CALL CLEAR :: CALL INIT
:: CALL KEY :: CALL LOAD ::
CALL VCHAR :: DIN AC$(500) ::
DIN B$(10) :: DIN E$(10) ::
DIN F$(10) :: DIN J$(10) ::
DIN JJ$(10) :: DIN N$(10) ::
DIN P$(10) :: DIN S$(10)
130 !@P-
140 CALL INIT :: CALL LOAD(-31806,16)
150 Q12$="####" :: AB1$=" "
160 M1$="One " :: M2$="Two "
:: M3$="Three " :: M4$="Four "
:: M5$="Five " :: M6$="Six "
:: M7$="Seven " :: M8$="Eight "
:: M9$="Nine " :: M10$="Ten "
170 M11$="Eleven " :: M12$="Twelve "
:: M13$="Thirteen "
:: M14$="Fourteen " :: M15$="Fifteen "
:: M16$="Sixteen "
:: M17$="Seventeen "
180 M18$="Eighteen " :: M19$="Nineteen "
:: M19$="Nineteen "
:: M20$="Twenty " :: M30$="Thirty "
:: M40$="Forty "
:: M50$="Fifty " :: M60$="Sixty "
:: M90$="Ninety "
190 M70$="Seventy " :: M80$="Eighty "
:: M100$="Hundred "
:: M1K$="One Thousand "
:: M2K$="Two Thousand "
:: M3K$="Three Thousand "
:: M4K$="Four Thousand "
200 M5K$="Five Thousand "
:: M6K$="Six Thousand "
:: M7K$="Seven Thousand "
:: M8K$="Eight Thousand "
:: M9K$="Nine Thousand "
210 CALL CLEAR :: FOR II=1 TO 16 ::
DISPLAY AT(II,II):"Check Writer"
:: NEXT II :: DISPLAY AT(6,21):"Extended"
:: DISPLAY AT(7,23):"Basic"
220 DISPLAY AT(23,2):"By Melvin E. Nomina"
230 OPEN #3:"DSK1.PRI-SET"
:: ON ERROR 3200 :: INPUT #3:PRI$
:: CLOSE #3
240 GOTO 330
250 CALL CLEAR
260 OPEN #5:"DSK1.PRI-SET"
:: INPUT #5:PRI$ :: CLOSE #5
270 DISPLAY AT(2,4):"Printer parameters are"
280 DISPLAY AT(4,12):PRI$

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290 DISPLAY AT(11,2):"Change
parameters (Y/N) M" :: ACC
EPT AT(11,26)VALIDATE("YN")B
EEP SIZE(-1):Y$ :: IF Y$="N"
THEN 330 ELSE DISPLAY AT(11
,2):"Input new parameters"
300 ACCEPT AT(13,4)VALIDATE(
"1234567890./PIORSNBADA")BE
EP SIZE(21):PRI$ :: IF PRI$=
"N" THEN 300
310 OPEN #5:"DSK1.PRI-SET" :
: PRINT #5:PRI$ :: CLOSE #5
:: GOTO 330
320 CALL CLEAR :: CALL INST
330 CALL CLEAR :: CALL BOOK
340 DISPLAY AT(24,4):"Enter
selection (1)" :: ACCEPT AT
(24,22)VALIDATE("123456789")
BEEP SIZE(-1):Y
350 ON YZ GOTO 370,380,390,4
00,230,320,355,358,360
355 RUN "DSK1.RECONCILE"
358 CALL CALC
359 GOTO 340
360 IF X=7 THEN 365 ELSE IF
AA=0 THEN 365 ELSE 1430
365 END
370 POS="BOOK1" :: GOTO 420
380 POS="BOOK2" :: GOTO 420
390 POS="BOOK3" :: GOTO 420
400 POS="BOOK4"
410 ! ##### BANK BALANCE
#####
420 OPEN #1:"DSK1.BKB"&POS :
: INPUT #1:OB :: CLOSE #1 ::
OPEN #1:"DSK1.BKM"&POS :: I
NPUT #1:AA :: CLOSE #1 :: OP
EN #5:"DSK1.PRI-SET" :: INPU
T #5:PRI$ :: CLOSE #5
430 IF OB>1 THEN 460 ELSE 44
0
440 CALL CLEAR :: DISPLAY AT
(21,2):"Your balance is $" :
: DISPLAY AT(21,20):OB :: DI
SPLAY AT(15,2):"Input new ba
lance "
450 ACCEPT AT(15,21)VALIDATE
("1234567890.")BEEP SIZE(7):
OB
460 P=0 :: PX=0 :: C$="
" ::
M91$="0" :: GOTO 520
470 CALL CLEAR :: DISPLAY AT
(10,3):"Enter if printer is
set to top of form"
480 DISPLAY AT(24,6):"Enter
to continue" :: CALL KEY(0,K
,S): IF K<>13 THEN 480
490 OPEN #2:PRI$
500 PRINT #2:"CHECK#";TAB(10
);"DATE";TAB(18);"FOR ";T
AB(26);" ";TAB(35);"PA
Y TO THE ORDER OF";TAB(61);"
AMOUNT";TAB(69);" ";TAB(72);
" " :: PY=3
510 PRINT #2:"-----"
-----"
520 CALL CLEAR :: CALL MENU
:: DISPLAY AT(1,12):POS :: D
ISPLAY AT(24,17):"1"
530 ACCEPT AT(24,17)SIZE(-1)
VALIDATE("12345678")BEEP:X :
: ON X GOTO 550,540,1230,297
0,470,1260,1430,1430
540 CALL CLEAR :: PS=1 :: 60
TO 900
550 CALL CLEAR
555 Q6$="00/00/87"
560 CALL CLEAR :: CALL DISPL
AY :: DISPLAY AT(24,1):"Is t
he data correct (Y/N)?" :: I
=1 :: S$(I)=STR$(AA) :: X$=""
570 S$(I)=STR$(AA) :: X$="" :
: I=1
580 DISPLAY AT(3,15):S$(I)
590 DISPLAY AT(18,14):OB ::
DISPLAY AT(6,15):Q6$ :: DISP
LAY AT(16,15):J$(I) :: DISPLA
Y AT(16,15):Y" :: DISPLAY A
T(24,28):"Y"
600 T3=0 :: T1=0 :: ACCEPT A
T(3,15)VALIDATE("1234567890D
ONE")BEEP SIZE(-4):S$(I) :: I
F S$(I)="DONE" THEN 520 :: A
A=VAL(S$(I)) :: AA=AA+1
610 S$(I)=S$(I)&C$ :: S$(I)=
SEG$(S$(I),1,8) :: ACCEPT AT(
6,15)VALIDATE("1234567890/")
BEEP SIZE(-8):D$(I) :: D$(I)=
D$(I)&C$ :: D$(I)=SEG$(D$(I)
,1,9) :: Q6$=D$(I)
620 D$(I)=SEG$(D$(I),1,9) ::
ACCEPT AT(8,15)BEEP SIZE(7):
F$(I) :: F$(I)=F$(I)&C$ :: F$
(I)=SEG$(F$(I),1,8)
630 ACCEPT AT(10,15)VALIDATE
("1234567890.")BEEP SIZE(7):
N$(I) :: N$(I)=N$(I)&C$ :: N$
(I)=SEG$(N$(I),1,8)
640 IF N$(I)=" " THEN
650 :: T1=VAL(N$(I)) :: IF T
1=0 THEN 650
650 ACCEPT AT(12,5)VALIDATE(
UALPHA,"123456789(),<>.-:~")
BEEP SIZE(24):P$(I) :: P$(I)=
P$(I)&C$ :: P$(I)=SEG$(P$(I)
,1,25)
660 ACCEPT AT(14,15)VALIDATE
("1234567890")BEEP SIZE(7):
E1$(I) :: A$=E1$(I) :: E1$(I)=
E1$(I)&C$ :: E1$(I)=SEG$(E1$
(I),1,8)
670 IF E1$(I)=" " THE
M 680 :: T3=VAL(E1$(I))
680 ACCEPT AT(16,15)VALIDATE
(UALPHA)BEEP SIZE(-1):J$(I):
: J$(I)=J$(I)&C$ :: J$(I)=SE
G$(J$(I),1,2)
690 ACCEPT AT(24,28)VALIDATE
("YN")SIZE(-1)BEEP:Q$ :: IF
Q$="N" THEN 590
700 NB=OB-T3+T1 :: JJ$(I)=ST
R$(NB)
710 DISPLAY AT(18,15):JJ$(I)
:: JJ$(I)=JJ$(I)&C$ :: JJ$(I
)=SEG$(JJ$(I),1,8) :: OB=VAL(
JJ$(I))
720 OPEN #1:"DSK1.CHECK"&POS
,APPEND,DISPLAY ,VARIABLE 80
730 ON ERROR 3150
740 A=1
750 PRINT #1:S$(A)&D$(A)&F$(
A)&N$(A)&P$(A)&E1$(A)&J$(A)&
JJ$(A)
760 CLOSE #1
770 X$=S$(A)&D$(A)&F$(A)&N$(
A)&P$(A)&E1$(A)&J$(A)&JJ$(A)
780 IF J$(A)="Y " THEN 1450
ELSE 560
790 CALL CLEAR :: DISPLAY AT
(15,1):"Check # ":A$ :: CALL
EOF :: GOTO 520
800 H=0 :: CALL CLEAR :: GOT
O 820
810 GOTO 520
820 PP=0 :: CALL CLEAR :: DI
SPLAY AT(8,3):T;" Checks wr
itten To" :: AQ$=A$
830 DISPLAY AT(10,4):AQ$
840 DISPLAY AT(12,4):"Total
cost" :: DISPLAY AT(12,17):U
SIN6 1290:Y
850 IF PX=0 THEN 890
860 IMAGE "
$ ####.##"
870 PRINT #2:"
-----"
880 PRINT #2,USING 860:KJ ::
PRINT #2 :: KJ=0
890 IF PS=1 THEN 900 :: GOTO
990
900 ! ## Program to get data
out of files ###
910 DISPLAY AT(22,6):"Enter
payees name"
920 ACCEPT AT(24,9)VALIDATE(
UALPHA,"/.-:")BEEP SIZE(23):
A$ :: IF A$="DONE" THEN 930
:: IF A$="" THEN 920 ELSE 10
20
930 IF A$="DONE" THEN PS=0 :
: IF A$="DONE" THEN 520 ELSE
920
940 ! ### SORT ENTIRE FILE
###
950 FOR I2=1 TO K1
960 IF AC$(I2)="0" THEN 990
970 A$=AC$(I2)
980 GOTO 1020
990 NEXT I2
1000 CALL TIME :: CALL VCHAR
(1,1,32,768) :: DISPLAY AT(15
,5):"Search completed"
1010 CALL TIME :: GOTO 520
1020 Y=0 :: X=0 :: T=0
1030 DISPLAY AT(15,5):"Searc
hing for "
1040 DISPLAY AT(16,6):A$
1050 OPEN #1:"DSK1.CHECK"&PO
$,INPUT ,DISPLAY ,VARIABLE 8
0
1060 ON ERROR 3150
1070 RESTORE #1
1080 IF EOF(1)THEN CLOSE #1
:: IF PX=3 THEN 800 :: IF H>
1 THEN 800 ELSE 790
1090 INPUT #1:X$ :: IF X$=""
THEN 1090
1100 I=POS(X$,A$,1)
1110 IF I<>0 THEN H=H+10 ::
GOTO 1130
1120 GOTO 1080
1130 V$=SEG$(X$,1,5) :: B$=SE
G$(X$,9,8) :: N$=SEG$(X$,18,7
)
1140 T=T+1 :: U$=SEG$(X$,34,
25) :: T$=SEG$(X$,59,7)
1150 IF K$=" " THEN 11
70 :: T1=LEN(K$) :: IF T1=0 T
HEN 1170 ELSE 1160
1160 M=VAL(K$) :: X=X+M :: KP
=KP+M :: KX=KX+KP
1170 IF T$=" " THEN 11
90 :: T1=LEN(T$) :: IF T1=0 T
HEN 1190 ELSE 1180

```

```

1180 R=VAL(T$):: Y=Y+R :: KJ
=KJ+R
1190 IF PX=3 THEN 1200 ELSE
1220
1200 IMAGE "#####"
#####
#####
#####
#####
1210 PRINT #2,USING 1200:V$,
B$,M$,K$,U$,T$
1220 GOTO 1080
1230 PP=2 :: Y=0 :: T=0 :: X
=0
1240 IF PX=0 THEN 1250 :: CA
LL CLEAR :: DISPLAY AT(15,8)
:"Sorting data" :: DISPLAY A
T(17,4):"for sorted print ou
t" :: GOTO 1300
1250 CALL CLEAR :: DISPLAY A
T(15,8):"Sorting data" :: DI
SPLAY AT(17,2):"for sorted s
creen display" :: GOTO 1300
1260 CALL CLEAR :: PRINT #2:
CHR$(27)&"0" :: CLOSE #2 ::
ON ERROR 3150 :: PX=0 :: DIS
PLAY AT(15,6):"Printer De-in
itized" :: CALL TIME :: GO
TO 520
1270 P=0 :: ON ERROR 3150 ::
DISPLAY AT(15,6):"Printer D
e-initialized" :: CALL TIME
:: GOTO 520
1280 IMAGE "#####"
1290 IMAGE "#####"
1300 OPEN #1:"DSK1.CHECK"&PO
$,INPUT,DISPLAY,VARIABLE 8
0
1310 ON ERROR 3150
1320 KJ=0 :: KP=0
1330 IF EOF(1)THEN CLOSE #1
:: GOTO 1360
1340 INPUT #1:X$ :: AB$=SEG$(
X$,34,25):: IF AB$=AB1$ THE
M 1330
1350 K1=K1+1 :: AC$(K1)=AB$
:: GOTO 1330
1360 FOR I1=1 TO K1
1370 FOR J1=1+I1 TO K1
1380 IF AC$(I1)=AC$(J1)THEN
AC$(J1)=M91$
1390 NEXT J1
1400 NEXT I1
1410 GOTO 940
1420 AA=AA-1
1430 OPEN #1:"DSK1.BKD"&PO$
:: PRINT #1:OB :: PRINT #1:"
" :: CLOSE #1 :: OPEN #1:"DS
K1.BKN"&PO$ :: PRINT #1:AA :
: PRINT #1:"" :: CLOSE #1 ::
IF X=7 THEN 330 :: STOP
1440 !##### SORT FOR PRINTE
D CHECK #####!
1450 D1$,D2$,D3$,D4$,D4$,CC$
=""
1460 A3=LEN(A$):: IF A3=0 TH
EN 2580 :: S8$=A$ :: V=VAL(A
$)
1470 FOR X=1 TO A3
1480 IF SEG$(S8$,X,1)=". " TH
EN 1530
1490 D6$=SEG$(S8$,1,X)
1500 NEXT X
1510 S8$=S8$&".00"
1520 GOTO 1540
1530 S8$=S8$&"00"
1540 C4$=SEG$(S8$,X,3)
1550 C44$=C4$
1560 IF C4$=".00" THEN C4$="
.No"
1570 D5$=Q12$&D6$ :: D6$=SEG
$(D5$,X,4):: D7$=D6$&C44$
1580 CC$="&"&"&C44$"/100"
1590 IF X=0 THEN 2170
1600 X=X-1
1610 ON X GOTO 2170,2200,229
0,2410
1620 ! ##### ONE DOLLAR NUMB
ER #####
1630 IF M$="" THEN D1$="" ::
RETURN
1640 IF M$="1" THEN D1$=M1$
:: RETURN
1650 IF M$="1" THEN D1$=M1$
:: RETURN
1660 IF M$="2" THEN D1$=M2$
:: RETURN
1670 IF M$="3" THEN D1$=M3$
:: RETURN
1680 IF M$="4" THEN D1$=M4$
:: RETURN
1690 IF M$="5" THEN D1$=M5$
:: RETURN
1700 IF M$="6" THEN D1$=M6$
:: RETURN
1710 IF M$="7" THEN D1$=M7$
:: RETURN
1720 IF M$="8" THEN D1$=M8$
:: RETURN
1730 IF M$="9" THEN D1$=M9$
:: GOTO 2190
1740 ! ##### TEN DOLLAR NUMB
ER #####
1750 IF M$="10" THEN D2$=M10
$ :: RETURN
1760 IF M$="11" THEN D2$=M11
$ :: RETURN
1770 IF M$="12" THEN D2$=M12
$ :: RETURN
1780 IF M$="13" THEN D2$=M13
$ :: RETURN
1790 IF M$="14" THEN D2$=M14
$ :: RETURN
1800 IF M$="15" THEN D2$=M15
$ :: RETURN
1810 IF M$="16" THEN D2$=M16
$ :: RETURN
1820 IF M$="17" THEN D2$=M17
$ :: RETURN
1830 IF M$="18" THEN D2$=M18
$ :: RETURN
1840 IF M$="19" THEN D2$=M19
$ :: RETURN
1850 IF M$="20" THEN D2$=M20
$ :: RETURN
1860 IF M$="2" THEN D2$=M20$
:: RETURN
1870 IF M$="3" THEN D2$=M30$
:: RETURN
1880 IF M$="4" THEN D2$=M40$
:: RETURN
1890 IF M$="5" THEN D2$=M50$
:: RETURN
1900 IF M$="6" THEN D2$=M60$
:: RETURN
1910 IF M$="7" THEN D2$=M70$
:: RETURN
1920 IF M$="8" THEN D2$=M80$
:: RETURN
1930 IF M$="9" THEN D2$=M90$
:: RETURN
1940 IF X=2 THEN 2560
1950 ! ##### HUNDRED DOLLAR
NUMBER #####
1960 IF M$="0" THEN RETURN
1970 IF M$="1" THEN D3$=M1$&
M100$ :: RETURN
1980 IF M$="2" THEN D3$=M2$&
M100$ :: RETURN
1990 IF M$="3" THEN D3$=M3$&
M100$ :: RETURN
2000 IF M$="4" THEN D3$=M4$&
M100$ :: RETURN
2010 IF M$="5" THEN D3$=M5$&
M100$ :: RETURN
2020 IF M$="6" THEN D3$=M6$&
M100$ :: RETURN
2030 IF M$="7" THEN D3$=M7$&
M100$ :: RETURN
2040 IF M$="8" THEN D3$=M8$&
M100$ :: RETURN
2050 IF M$="9" THEN D3$=M9$&
M100$ :: RETURN
2060 ! ##### ONE THOUSAND DO
LLAR NUMBER #####
2070 IF M$="1" THEN D4$=M1K$
:: RETURN
2080 IF M$="2" THEN D4$=M2K$
:: RETURN
2090 IF M$="3" THEN D4$=M3K$
:: RETURN
2100 IF M$="4" THEN D4$=M4K$
:: RETURN
2110 IF M$="5" THEN D4$=M5K$
:: RETURN
2120 IF M$="6" THEN D4$=M6K$
:: RETURN
2130 IF M$="7" THEN D4$=M7K$
:: RETURN
2140 IF M$="8" THEN D4$=M8K$
:: RETURN
2150 IF M$="9" THEN D4$=M9K$
:: RETURN
2160 IF X=4 THEN 2520 ELSE 2
380
2170 M$=SEG$(A$,1,1)
2180 GOSUB 1630
2190 GOTO 2560
2200 IF V>20 THEN 2240
2210 M$=SEG$(A$,1,2)
2220 GOSUB 1750
2230 GOTO 2560
2240 M$=SEG$(A$,1,1)
2250 GOSUB 1860
2260 M$=SEG$(A$,2,1)
2270 GOSUB 1630
2280 GOTO 2560
2290 M$=SEG$(A$,1,1)
2300 GOSUB 1960
2310 M$=SEG$(A$,2,2)
2320 V=VAL(M$)
2330 IF V>20 THEN 2360
2340 GOSUB 1750
2350 IF V<20 THEN 2560
2360 M$=SEG$(A$,2,1)
2370 GOSUB 1750
2380 M$=SEG$(A$,3,1)
2390 GOSUB 1630
2400 GOTO 2560
2410 M$=SEG$(A$,1,1)
2420 GOSUB 2070
2430 M$=SEG$(A$,2,1)
2440 GOSUB 1960
2450 M$=SEG$(A$,3,2)

```

```

2460 V=VAL(M$)
2470 IF V>20 THEN 2500
2480 GOSUB 1750
2490 IF V<20 THEN 2560
2500 M$=SEG$(A$,3,1)
2510 GOSUB 1750
2520 M$=SEG$(A$,4,1)
2530 GOSUB 1630
2540 GOTO 2560
2550 ! ##### SET PRINTER UP
#####
2560 ! #####
#####
2570 ! "NEW/CHECK"
2580 OPEN #2:PRI$
2590 ! OPEN #2:"CLOCK"
2600 ! INPUT #22:M$,Q6$,Z$
2610 ! CLOSE #22
2620 !##### SET PRINTER UP
#####
2630 IF P0$="BOOK4" THEN 264
0 ELSE 2860
2640 IMAGE "

#####
##### $#####.
##"
2650 IMAGE " #####
#####"
2660 IMAGE " #####
#####"
#
2670 PRINT #2:CHR$(24);CHR$(
20);CHR$(27);"6";
2680 PRINT #2:"#####
#####
#####";
#####;
2690 FOR I=1 TO 2 :: PRINT #
2 :: NEXT I
2700 PRINT #2:"REF. #";TAB(1
0);"DATE";TAB(18);"FOR "
;
TAB(26);"DEPOSIT";TAB(35);"P
AY TO THE ORDER OF";TAB(61);
"AMOUNT";TAB(69);"P";TAB(72)
;"NEW BAL.";
2710 PRINT #2:"-----
-----"
-----
2720 V$=SEG$(X$,1,5):: B$=SE
G$(X$,9,8):: M$=SEG$(X$,18,7
):: K$=SEG$(X$,26,7)
2730 T=T+1 :: U$=SEG$(X$,34,
25):: T$=SEG$(X$,59,7):: R$=
SEG$(X$,67,1):: RR$=SEG$(X$,
69,7)
2740 PRINT #2,USING 1200:V$,
B$,M$,K$,U$,T$,R$,RR$

2750 FOR I=1 TO 13 :: PRINT
#2 :: NEXT I :: PRINT #2:CHR
$(27);CHR$(20);CHR$(27);CHR$
(74);CHR$(240)
2760 !FOR I=1 TO 6 :: PRINT
#2 :: NEXT I
2770 PRINT #2:CHR$(20):: PRI
NT #2,USING 2640:Q6$,S$(A),D
7$
2780 FOR I=1 TO 2 :: PRINT #
2 :: NEXT I
2790 PRINT #2:CHR$(20);CHR$(
14):: PRINT #2,USING 2660:P
$(A):: PRINT #2:CHR$(27);CH
R$(20);
2800 PRINT #2:CHR$(27);CHR$(
20);CHR$(27);CHR$(74);CHR$(6
3):: IF X=4 THEN 2810 ELSE
2830
2810 PRINT #2:TAB(8):: PRIN
T #2:CHR$(27);CHR$(20);D4$&D
3$&D2$&D1$:: PRINT #2:CHR$(
20):: PRINT #2:CC$;
2820 IF X=4 THEN 2840
2830 PRINT #2:TAB(4):: PRIN
T #2:CHR$(27);CHR$(14);D4$&D
3$&D2$&D1$:: PRINT #2:CHR$(
20):: PRINT #2:CC$;
2840 PRINT #2:CHR$(27);CHR$(
20);CHR$(27);CHR$(74);CHR$(2
36);CHR$(27);"H";:: CLOSE #2
2850 X=0 :: K$,V$,B$,M$,U$,T
$,R$,RR$="" :: GOTO 560
2860 PRINT #2:CHR$(15)&CHR$(
24)&"-----
-----"
"CHR$(10);!START SMALL CHEC
2870 PRINT #2:"REF. #";TAB(1
0);"DATE";TAB(18);"FOR "
;
TAB(26);"DEPOSIT";TAB(35);"P
AY TO THE ORDER OF";TAB(72);
"NEW BAL.";
2880 PRINT #2:"$ $ $ $ $ $
$ $ $ $ $ $ $ $ $ $ $
$ $ $ $ $ $ $ $ $ $ $
$ $ $ $ " :: V$=SEG$(X$,1,
5):: B$=SEG$(X$,9,8):: M$=SE
G$(X$,18,7):: K$=SEG$(X$,26,
7)
2890 T=T+1 :: U$=SEG$(X$,34,
25):: T$=SEG$(X$,59,7):: R$=
SEG$(X$,67,1):: RR$=SEG$(X$,
69,7):: PRINT #2,USING 1200:
V$,B$,M$,K$,U$,T$,R$,RR$ ::
CALL CLEAR

2892 DISPLAY AT(5,1):"Enter
a MEMO (maximum of 28 charac
ters) to print on the lower
right side of check."
2894 ACCEPT AT(10,1)SIZE(28)
:NO$
2900 DISPLAY AT(12,1):" Inse
rt check in printer alli
gned with left paper perf
oration and with prin
ted dashed line(- - -)"
2910 DISPLAY AT(17,5):"Then
press <ENTER>." :: INPUT X$
2920 PRINT #2:CHR$(27)&"e"&C
HR$(27)&"6"&CHR$(27)&"E";TAB
(43);Q6$ :: PRINT #2
2930 PRINT #2:CHR$(27)&"D"&C
HR$(46)&CHR$(0)&" ---
---"&P$(A)&CHR$(9)&D7$ :: PRI
NT #2
2940 PRINT #2:"-----"&D4$&D3
$&D2$&D1$&CC$:: IF D4$="" T
HEN PRINT #2:"-----";
2949 FOR I=1 TO 2 :: PRINT #
2 :: NEXT I :: PRINT #2:CHR$
(15)&CHR$(27);CHR$(20);CHR$(
27);CHR$(74);CHR$(55):: PRI
NT #2:TAB(14);MO$
2950 PRINT #2:CHR$(27)&"e" :
: CLOSE #2
2960 X=0 :: K$,V$,B$,M$,U$,T
$,R$,RR$="" :: GOTO 560
2970 CALL CLEAR :: CALL INST
2980 GOTO 520
3150 CALL CLEAR :: DISPLAY A
T(3,7):"You have a error" :
: DISPLAY AT(5,1):"Perhaps:"
:: DISPLAY AT(6,1):"(1) Pri
nter not initialized"
3160 DISPLAY AT(8,2):"(2) Yo
ur disk has missing da
ta files on it." :: DISPLAY
AT(11,2):"(3) Your disk in t
he wrong drive."
3170 DISPLAY AT(14,2):"(4) P
rinter is already I
nitialized."
3180 DISPLAY AT(18,1):"(5) D
ata incorrectly enter-
ed from check writing
#
enu" :: INPUT "Press <ENTER>
to continue":CONT$
3190 ON ERROR 3150 :: GOTO 3
30
3200 CALL CLEAR :: DISPLAY A
T(5,2):" One Moment Plea
se" :: DISPLAY AT(10,5):"Gen
erating needed files"

3210 C$="BOOK"
3220 FOR C=1 TO 4 :: C1$=STR
$(C):: OPEN #23:"DSK1.BK"&C$
&C1$ :: PRINT #23:0 :: CLOSE
#23 :: NEXT C
3230 IF C$="NBOOK" THEN 3240
ELSE C$="NBOOK" :: GOTO JZZ
0
3240 OPEN #5:"DSK1.PRI-SET"
:: PRINT #5:"PID" :: CLOSE #
5 :: GOTO 330
3250 !@P+
3260 SUB INST
3270 GOTO 3280 :: K,O,P,S ::
CALL KEY :: !@P-
3280 DISPLAY AT(1,1):" Thi
s program will write your c
hecks and store data."
3290 DISPLAY AT(3,5):"It wil
l also search records by che
ck number and dump allor sel
ected checks to your printe
r. It also totals checks
, deposit & insterst."
3300 DISPLAY AT(10,1):"Name
this program "LOAD" andput
it on a disk in DSK1."
3310 DISPLAY AT(18,1):"Enter
all data exactly as instr
ucted."
3320 DISPLAY AT(24,1):"Press
<ENTER> to continue." :: CA
LL KEY(P,K,9):: IF S=0 THEN
3320 :: IF K<>13 THEN 3320
3330 CALL CLEAR :: DISPLAY A
T(2,1):""CHECK #". enter u
p to 4 digits"
3340 DISPLAY AT(5,1):""DATE
" enter exactly 6 di
gits and 2 slashes (e.g. 11
/21/87 for Nov, 21,1987)"
3350 DISPLAY AT(9,1):""FOR"
" why check is written. En
ter up to (8) characters"
3360 DISPLAY AT(12,1):""DEP
OSIT" enter up to (6) d
igits. Include cents."
3370 DISPLAY AT(15,1):"To pr
int sorted data or the entir
e file first INITIALIZEPRIN
T ER. Then print your"
3380 DISPLAY AT(18,1):"data.
Then DEINITIALIZE PRINT
ER if you are going to wr
ite checks after file print
out."

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Bits, Bytes & Pixels

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3390 DISPLAY AT(24,6):"Enter
to continue" :: CALL KEY(P,
K,S):: IF S=0 THEN 3390 :: I
F K<>13 THEN 3390
3400 CALL CLEAR :: DISPLAY A
T(1,1):""PAY"" payee name.
Up to (24) letters"
3410 DISPLAY AT(4,1):""AMOU
NT"" Total of check. Mu
st include decimal point an
d cents. Enter a ""0""
here for deposits."
3420 DISPLAY AT(9,1):""PRIN
T CHECK?"" imprints data on
check. Enter ""Y"" or ""N""
.
3430 DISPLAY AT(12,1):""NEW
BALANCE"" your current b
alance"
3440 DISPLAY AT(15,1):"To ge
t back to main menu typ
e ""DONE"" in CHECK #, or
""DONE"" in SEARCH NUMBER"
3450 DISPLAY AT(19,1):"To ed
it files use E/A or TI-
Writer."
3460 DISPLAY AT(22,1):"Bank
Book # (4) Uses Deluxe Check
s (8 by 11) style #1003"
3470 DISPLAY AT(24,6):"Enter
to continue" :: CALL KEY(O,
K,S):: IF K<>13 THEN 3470
3480 !@P+
3490 SUBEND
3500 SUB TIME
3510 GOTO 3520 :: !U :: !@P-
3520 FOR !U=1 TO 500 :: NEXT
!U
3530 !@P+
3540 SUBEND
3550 SUB DISPLAY
3560 GOTO 3565 :: !@P-
3565 DISPLAY AT(4,1):""DON
E"" to" :: DISPLAY AT(5,1):"
exit."
3570 DISPLAY AT(3,1):"Check
# " :: DISPLAY AT(6,1):
"Date " :: DISPLAY A
T(8,1):"For " :: DI
SPLAY AT(10,1):"Deposit
:"
3580 DISPLAY AT(12,1):"Pay"
:: DISPLAY AT(14,1):"Amount
:" :: DISPLAY AT(16,1):
"Print Check " :: DISPLAY A
T(18,1):"New Balance "
3590 !@P+
3600 SUBEND
3610 SUB MENU
3620 GOTO 3630 :: !@P-
3630 DISPLAY AT(3,9):"Check
Book" :: DISPLAY AT(5,12):"N
ENU" :: DISPLAY AT(8,4):"(1)
Write checks
3640 DISPLAY AT(10,4):"(2) S
ort file by payee " :: DISPL
AY AT(12,4):"(3) Sort comple
te file " :: DISPLAY AT(14,
4):"(4) Instructions"
3650 DISPLAY AT(16,4):"(5) I
nitilize printer" :: DISPLAY
AT(18,4):"(6) De-initilize
printer" :: DISPLAY AT(20,4)
:"(7) Book menu" :: DISPLAY
AT(22,4):"(8) End program"
3660 DISPLAY AT(24,2):"Enter
choice"
3670 !@P+
3680 SUBEND
3690 SUB EOF
3700 GOTO 3710 :: !I :: !@P-
3710 DISPLAY AT(17,8):"Is no
t in file "
3720 FOR !I=1 TO 2000 :: NEX
T !I
3730 !@P+
3740 SUBEND
3750 SUB BOOK
3760 GOTO 3770 :: !@P-
3770 DISPLAY AT(2,4):"(1) Ba
nk book # 1 " :: DISPLAY AT(
4,4):"(2) Bank Book # 2 " ::
DISPLAY AT(6,4):"(3) Bank B
ook # 3 "
3780 DISPLAY AT(8,4):"(4) Ba
nk book # 4 "
3790 DISPLAY AT(10,4):"(5) C
hange printer name"
3800 DISPLAY AT(12,4):"(6) I
nstructions" :: DISPLAY AT(1
4,4):"(7) Reconcile Statemen
t" :: DISPLAY AT(16,4):"(8)
Window Calculator" :: DISPLA
Y AT(18,4):"(9) End program"
3810 !@P+
3820 SUBEND
4110 !@P+
4120 SUB CALC :: DIM A$(10):
: GOTO 4150
4130 B$ :: C$ :: A :: B :: C
:: D :: E :: F :: G :: H ::
I :: J :: D$ :: K :: L :: M
:: CALL SOUND :: CALL CHAR
:: CALL GCHAR :: CALL HCHAR
:: CALL VCHAR :: CALL KEY
4140 !@P-
4150 FOR F=1 TO 10 :: FOR G=
19 TO 30 :: CALL GCHAR(F,G,A
):: C$=C$&CHR$(A):: NEXT G :
: A$(F)=C$ :: C$="" :: NEXT
F :: DISPLAY AT(1,18):"TI-CA
LC" :: DISPLAY AT(2,18):"1st
no:"
4160 DISPLAY AT(3,18):"" ::
DISPLAY AT(4,18):"+-/%$CE" :
: DISPLAY AT(5,18):"2nd no:"
:: DISPLAY AT(6,18):"" :: D
ISPLAY AT(7,18):"Answer:" ::
DISPLAY AT(8,18):"" :: DISP
LAY AT(9,18):"Clear--End"
4170 !,J,D,E=0 :: CALL HCHAR
(8,20,32,10):: CALL HCHAR(6,
20,32,10):: ON WARNING NEXT
4180 ACCEPT AT(3,18)VALIDATE
(NUMERIC)SIZE(10):! :: DISPL
AY AT(9,18):"Clear--End"
4190 ACCEPT AT(4,28)SIZE(-1)
BEEP VALIDATE("+-/%$CE"):B$
:: IF B$="" THEN 4190
4200 IF B$="E" THEN 4280
4210 IF J=0 AND B$="C" THEN
4190
4220 IF B$="C" THEN 4270
4230 IF D$="X" THEN CALL HCH
AR(3,20,32,10)
4240 ACCEPT AT(6,18)VALIDATE
(NUMERIC)SIZE(10):J :: IF D$
<>"X" THEN 4260
4250 !=K
4260 GOSUB 4290 :: DISPLAY A
T(8,18)SIZE(10):K :: GOTO 41
90
4270 D$="" :: GOTO 4170
4280 FOR F=1 TO 10 :: DISPLA
Y AT(F,17):A$(F):: CALL SOUN
D(10,F#220,4):: NEXT F :: GO
TO 4350
4290 IF B$="Z" THEN K=(!&J)/
100
4300 IF B$="+" THEN K=!+J
4310 IF B$="-" THEN K=!-J
4320 IF B$="/" THEN K=!/J
4330 IF B$="*" THEN K=!&J
4340 D$="X" :: RETURN
4350 !@P+
4360 SUBEND
"LOAD" -ating
ends here. This
program occupies
73 disk sectors.

```