(earlier versions of this product were not published)

This product
restricted from direct access
an unaltered copy of the facility for backup and distribution.
    PLEASE DON'T ATTEMPT TO RESAVE THIS SPREADSHEET FILE!

User agreement, manual and registration form are all available at
this point provided you have a printer on-line. You may proceed
to view the documentation on your screen using the "INSTRUCT"
and "REVEIW" commands, or you may get your hardcopy (and auto-
matically exit this file) immediately using the "PRINT" command.
Instructions for installing the facility in your Lotus files follow...
                                                    Installing 123-LEARN:

Using 123-LEARN:

Using 123-Learn:

DONE

* When using these features, check the upper-right indicator for status
123-LEARN features:

123-LEARN features:

123-LEARN advanced features:

LOOP

123-LEARN advanced features:

123-LEARN advanced features:

123-LEARN advanced features:

123-LEARN interruptions:

123-LEARN general considerations:

123-LEARN User Agreement:

You are hereby provided a license to use 123-Learn provided the
following conditions typical of user-supported software:

123-LEARN Distribution Agreement:

You are hereby provided a license to distribute 123-Learn free of
charge provided the following conditions.

If you distribute 123-Learn to employees or other subordinates under
your management, or are a designated software/office supply purchaser of
an institution to whom 123-Learn is distributed, you are required to
pay, or cause the institution to pay, for each user's copy as calculated
under the billing section of this Agreement (volume discounts available).

A user is defined as any individual who by requirements of employment
can and do use 123-Learn. Users of macros created using 123-Learn are
not necessarilly users as defined here.
123-LEARN billing:

123-Learn costs ten dollars ($10.00) per user, with a two dollar ($2.00)
discount for each user beyond 1 to whom a copy is distributed by a
purchaser as defined under the Distribution Agreement. See chart:

N.B.: Those who do not receive this product from a purchaser as defined under the Distribution Agreement are required to calculate their billing anew, counting themselves as user #1.

123-LEARN User Registration Form:

_____
_____
_____

_____
fold here

_____
fold here
I've found 123-Learn, Version 2.2 to be a valuable facility, here is my payment of billing as calculated under the User Agreement:

#/USERS:
BILLING:

I'd also like to order these other Softsmith products:

PRODUCT
123-LOCK
APGR
(Included a prestamped disk envelope with any APGR order!)
Ohio residents include 5½% sales tax
--(tear)-

Other products developed by Softsmith Enterprizes:

123-LOCK:

APGR:

123-LEARN End:

(You may inadvertently lose your copy of the facility!)

#1- Go to an empty range in your spreadsheet at least 10 wide
   by 56 deep. 123-Learn will be installed here.

#2- Insert 123-Learn disk in default drive (usually "b:")

#3- Make sure the mode indicator (upper right) says

#4- Type "/FCCN123-Learn" [PRESS RETURN TWICE] continue typing "/RNC\"
   "/RNC\" (don't type the quotation marks!).

#5- Now specify a letter you want to use when you invoke
   123-Learn (The facility will activate whenever you type
   "ALT" and the letter at the same time) [PRESS RETURN TWICE]

#6- Press "ALT" and your chosen letter at the same time.
   (Be sure 123-Learn disk is still in default drive)

#7- After a few moments, 123-Learn will be installed- try it.

#1- Initially, 123-Learn brings up the main menu to get data
   on the current task:

   #1a- The "go" command invokes the last macro you worked on.
   #1b- The "new" command allows you to make temporary or

#1c-

#1d-

#1e- The "quit" command stops learn-mode, but the "append"

#2- While 123-Learn is on, each keystroke made is recorded in
 a macro so tasks may be repeated automatically!

#3- 123-Learn is usually transparent to the user- you know it's
 on only by the "CMD" indicator at the bottom of the screen.

#4- 123-Learn isn't transparent to the user when backslash "\"
 is pressed. Then, the facility brings up this menu:

FIELD*

 #4a- Pressing the [ESC] key will rid you of the menu. The

 #4b- The "done" feature simply embeds a terminating command

#1- The "field" feature lets you embed pauses in the macro
 for users to type in data. When you call this feature,

                FIELD

 no keystrokes will be recorded until the you press
 [RETURN]. Then you can continue in learn mode.

#2- The "pause" feature lets you embed pauses in the macro
 until the user presses any key- there is no opportunity
 for input. When you call this feature,

                PAUSE

 execution is suspended until a key is pressed- then learn
 mode resumes.

N.B.: A range named "L22\" is used by all macros with embeded
    pauses, deleting this range name invalidates the macros.

#3- The "wait" feature prompts you to input the time to wait
                              in the format x,x,x where x is:

              [number of hours to wait],[minutes to wait],[and seconds]

                                      WAIT

#4- The "sound" feature embeds and plays beeps when numbers are
   typed. It is turned on/off like a light switch.

#5- The "resume" feature continues learn-mode as though you'd
   never typed "\" (note "\" is not typed).

#6- If you want to type "~", you have to use the "~" feature,
   since "~" is a macro symbol for [RETURN], typing it
   directly will do the same thing as pressing [RETURN].

#7- The "macro" feature brings up a menu of advanced options...

#7(cont)- The "macro" feature brings up the following menu:

KNOT

#1- Using the "loop" feature causes the macro to start over
                       again from the beginning- it will stop learn mode unless
                          you're in a conditional routine (see "if" feature).

#2- The "knot" feature funtions like the "loop", except it
                    repeats the macro from the beginning of the current macro
                      line (keep track of macro lines with the "bell" feature).
N.B.: Macros with this feature can't be moved to new addresses.

#3- Using the "down" feature will force the macro to
   write all further keystrokes in the next cell below
   the cell in which it's currently writing. This happens
   automatically when the current cell is full unless a condi-
   tional routine is in progress (see "interruptions").

#4- The "if" feature lets you specify certain keystrokes
                     that will only be executed under certain conditions.
                     (a "conditional routine"). This menu is brought up:

                                   EQUATION

#4a- The "equation" feature prompts you to input a

#4b- The "value" feature prompts for a number or a

#4c- The "label" feature prompts for a label, or a
string formula (example: +a1&@left(b1,3)&c1)

#4b-

#4c-

#5- The "not" feature executes routine if a condition's false.

#6- The "routine" feature causes the macro you're making to
invoke another macro. After entering a macro name, you
tell 123-Learn what to do after the invoked macro is done.
#6a- If the invoked macro contains the "{RESTART}"

#6b- Deleting these commands will cause the invoked macro

#6c- You are free to specify a nonexistant macro, as

#7- The "menu" feature calls a macro menu like the "routine"

feature calls a macro.

#8- The "bell" feature causes a bell to sound when 123-Learn
fills the cell it's currently writing in.

#1- 123-LEARN may occaisionally interrupt learning to ask
if you want a specific cell's contents written over.
This is because the current cell is full, but the next
cell already has contents. Toggle between the choices
given to alternately see both the displayed value and
formulaic contents of the threatened cell.

#2- Triggering a 123-error while using 123-LEARN will
cause the facility to display the cause of the error,
and return you to the main menu. Control-Break will
bring you straight to the main menu as though
you'd type "\d(one)."

#3- Erasing the worksheet or calling a new file while using
123-Learn will cause you to loose all macro commands
that have been recorded since you last saved the file.
These commands should be typed into the macro manually
and the file should be saved before invoking the macro.

#1- Enabling 123's "protection" feature (by typing
"/w(orksheet)g(lobal)p(rotection)e(nable)") could
trigger unrecoverable macro errors if the macro area
isn't unprotected (temporary macro storage is directly
under the 123-Learn program in your spreadsheet).

#2- Inputing invalid equations, routine names or formulas using
the "macro" or "if" features will result in unrecoverable
errors when a macro generated with 123-Learn is executed.

#3- Starting a temporary macro while in edit mode will cause
unexpected results to appear on the command line while
123-Learn is being used. This is due to Lotus 123 software
design. Regardless of the unexpected results, the new macro
will function as expected when invoked through 123-Learn.

#4- Try to make the macro in the tutorial worksheet "tutor.wk1"
It will show you how 123-Learn can be fully utilized!

#1- Payment of billing as calculated under the billing section
    of this Agreement.

#2- No receipt of any form of remuneration or consideration
    for distribution of this product to others beyond those
    verifiable costs of disks, P.C. rentals, ect. - Individuals
    or institutions receiving 123-Learn will either pay the
    regular billing to Softsmith Enterprise or it will be payed
    by the distributor, provided the distributor is authorized
    to do so under the distribution agreement (see below).

#3- In no event will the author be liable to you or any other
    person for any damages direct, incidental or consequential
    arising out of the use or inability to use this product.
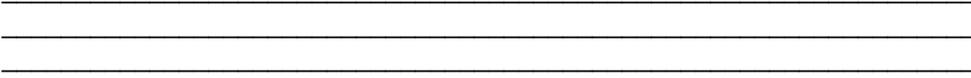
#1- The software and/or documentation of this product are not
    altered in any way whatsoever.

#2- You don't qualify as a purchaser for those to whom
    123-Learn is distributed (as defined below).

Number of users

1
2
3
4
5
6 ad infinitum

_____
_____
_____

_____

_____

_____

$_____

BILLING
$_____

(Above is your payment envelope- please fold and seal edges
 and sides, fill out return address, stamp and send!)

 Provides superior spreadsheet protection any time you need
 it- quick keyboard lock-up/screen-blank while in a file, on
 retrieving a file or when 123 boots-up; 123-Lock insures that
 your files/system will be untampered with in five minutes or
 five years! Uses your password. May be invoked from a macro.

 This automated spreadsheet finds the average periodic growth
 rate and standard error of any time series data as a percent,
 useful in forecasts and measuring your performance against
 financial targets (usually expressed as percentages also!)

Thank you for your time thus far. Hopefully 123-Learn will
become a valuable productivity tool to you. If not, or if you
see room for improvements, please use the registration form to
let us know. User supported software cannot require billing
of unsatisfied users...

Note: Lotus and 123 are trademarks of Lotus Development Corp.

123-LEARN
Version 2.2

produced by Softsmith Enterprises

(c) 1987 All Rights Reserved

ISN'T   copy-protected. This spreadsheet has been

GO   NEW

permanent macros, and prompts you to show it where
you want permanent macros written. Temporary macros
are written below 123-Learn automatically.
The "append" command adds the following keystrokes to
the last macro you worked on- this is best done after
using the "go" command to show you where you are.
The "display" command shows the current display of the
command line-press any key to return to the main menu.

command may still be used later on. "Quit" can be
used to make unrecorded keystrokes before continuing.

PAUSE*   WAIT*

"\" will be typed normally and learn mode will
continue.

in the macro and brings the main menu back up.
(N.B. The command used is "{return}", not "{quit}")

                        is shown in the upper-right box (the indicator).

                        is shown in the upper-right box (the indicator).

shows in the indicator for the specified period.

DOWN   IF

VALUE

specific equation that must be true to execute the
conditional routine.
#4a(1)- Not specifying any equation will cause the

conditional routine to execute as the curser
encounters a blank cell.

numeric formula (example: +a1+(b1*c1)).
#4b(1)- Not specifying any value will cause the

conditional routine to execute as the curser
encounters any cell containing a value.

#4c(1)- A label must be input in quotes ("example").
#4c(2)- Do not put string formulas in quotes.
#4a(1)- Not specifying any string will cause the

conditional routine to execute as the curser
encounters a any cell containing a label.

The conditional routine continues until:
#4b(1)- You press "\d" (for "done") - This causes a
conditional termination of macro execution.
#4b(2)- You use the "loop" or "knot" feature - This

causes a conditional repetition of the macro.

#4b(3)- You use the "down" feature - This means the

macro continues normally after the condition-
al routine is finished.

When the routine is done, normal learn mode resumes.

or "{QUIT}" commands, it won't return "control"
to the original macro when finished.

to return to the original macro and execute the rest
of the keystrokes you recorded there.

long as you make a macro under that name before you
try to invoke it.

10+8+6+4+2

10+8+6+4+2+0

Softsmith Enterprises
1425 Denman Avenue
Coshocton, Ohio 43812

_____

_____

IF CHECK IS NOT ENCLOSED,

ENTER CREDIT/BANK CARD NUMBER

_____

	PRICE	No./Users
	$5.00	_____
	$0.00	_____

--(tear)-   ---

Please print manual at this time!

tm

123-LEARN

only   to insure there is always

READY

APPEND   DISPLAY   QUIT

RESUME   SOUND   ~   MACROS

NOT   ROUTINE   MENU   BELL

LABEL

_
|
|
|

Itemized billing	Total billing
$10	$10.00
10+8	$18.00
10+8+6	$24.00
10+8+6+4	$28.00
	$30.00
	$30.00

```
 _____
| Place |
| Stamp |
| Here  |
`-------'
```

_____ _____ _____

_____ _____ _____

NAME OF CREDIT/

BANK CARD:

_____   _____ _____

(Discount $1 for each
for each user over one)

 DO NOT SEND $CASH$!!!
--(tear)-   -----------------------------------(tear)-   ---------------

\0

LOOK

{PANELOFF}{BREAKOFF}{DOWN}/RE~{DOWN}LEARN~{RIGHT}/FCCNLEARN~123LEARN~/RNCLEARN~{ESC}.{RIGHT }

LEARN

{BREAKOFF}{HOME}{MENUBRANCH LOOK}

{BRANCH \0}

INSTRUCT

SEE FURTHER INSTRUCTIONS FOR USAGE

{if @cellpointer("contents")<>"123-LEARN End:"}{ONERROR \0}{PGDN}{MENUBRANCH LOOK}

{branch print}

GO

INVOKE PRESENT MACRO IN MEMORY UNDER "ALT-Z"

#NAME?

L00A

L01A
L000

L02A
L00W

L03W
L01W
L02W

L12W
L00N

L01N

L02N
L01B
L00B

L12\
L22\
L00S
L01S
L02S
L1SN
L00F

L03F

L01F
L02F
L0IF

L1IF

L00\

L01\
L00T
L01T
L02T
L00M

REVEIW

{ONERROR \0}{PGUP}{MENUBRANCH LOOK}

NEW
WRITE NEW MACRO WITH 123-LEARN
{ONERROR L00B,L01B}{BREAKOFF}{LET L22\,"N "}{MENUBRANCH L00N}{MENUBRANCH LEARN}
{INDICATE}{ONERROR L00B,L01B}{GET L000}{IF L000="\"}{INDICATE MACRO}{RECALC LEARN}{MENUBRANCH L00\}

TEST

       {LONG NAME}{RETURN}

{LONG NAME}{RETURN}
TEMPORARY

Break
{BREAKOFF}{IF L01B="Break"}{INDICATE BREAK}{MENUBRANCH LEARN}{QUIT}

0,0,20
\

{LET L000,+@IF(@IF(@ISERR(@VALUE($L000)),0,$L000<>" "),"{BEEP "&$L000&"}",+$L000):VALUE}

LOOP
CAUSE THE MACRO TO REPEAT ITSELF FROM THE BEGINNING

{IF @ISERR(@FIND("{IF ",@@(L00T),0))}{LET L02T,L02T+1}{RECALC L00T}{LET L000,+"{LET "&L00T&",+"&L00T&"&""{BF
{BEEP}{BEEP}{BEEP}{GETLABI
TEST

{LET L02T,L02T+1}{RECALC L00T}{LET L22\,+L000}{LET L000,+"{LET "&L00T&",+"&L00T&"&L22\}{BRANCH L00A}"}{LET I
DONE
MACRO IS FINISHED

AR9

PRINT

/RELEARN~{ONERROR \0}/PPRA1..h394~AGPPQ/WEY

APPEND
APPEND LAST MACRO WRITTEN WITH 123-LEARN

PERMANENT

{PANELOFF}{ESC 8}{GETLABEL
{IF #NOT#@ISERR(@FIND(@LEFT(L02A,1),"0123456789!@$^&^()-+=;"",<>/",0))}{GETLABEL "NAME CANNOT BEGIN

KNOT
CAUSE THE MACRO TO REPEAT CURRENT

VALUE

FIELD
INSERT A VARIABLE FIELD FOR USER INPUT

DISPLAY
   BRIEFLY DISPLAY THE COMMAND LINES THAT THIS MENU IS BLOCKING FROM VIEW
 {BREAKOFF}{INDICATE DSPLY}{GET L22\}{BREAKON}{INDICATE}{MENUBRANCH LEARN}

DOWN
  FORCE 123-LEARN TO WRITE TO NEXT CELL DOWN (USEFUL IN MACRO LOGIC DESIGN)
                                        {LET L000,""}{L00W}

LABEL

EXECUTE CONDITIONAL ROUTINE WHEN CURSER ENCOUNTERS A LABEL

#NAME?

{BRANCH L1IF}

PAUSE

INSERT A PAUSE UNTIL ANY KEY IS PRESSED

{LET L22\,"N "}{LET L000,"{GET L22\}"}{INDICATE PAUSE}{BRANCH L01A}

QUIT
QUIT LEARN FACILITY
{INDICATE}{QUIT}

IF
CREATE ROUTINE EXECUTED ON THE TRUTH OF A CONDITION

{LET L22\,""}{RECALC LEARN}{MENUBRANCH

WAIT
INSERT A WAIT OF A SPECIFIC TIME
{LET L22\,"N "}{GETLABEL "ENTER TIME TO WAIT IN THE FORMAT HRS,MIN,SEC (MAX. 23,59,59): ",L12\}{LET L000,+"{

NOT
CREATE ROUTINE EXECUTED ON THE UNTRUTH OF A CONDITION
 {LET L22\,"#NOT#"}{RECALC LEARN}{MENUBRANCH L0IF}{MENUBRANCH L00F}{MENUBRANCH L00\}{BRANCH L00A}

RESUME
RESUME LEARN MODE
{BRANCH L00A}

ROUTINE

{GETLABEL "ENTER NAME OF ROUTINE TO BE INVOKED: ",L000}{RECALC LEARN}

{IF @ISERR(@FIND("{IF ",@@(L00T),0))}{LET L02T,L02T+1}{RECALC L00T}{LET L22\,+L000}{LET L000,+"{LET "&L00T&"

SOUND
IMBED BEEPS IN MACRO (NUMBERS ARE RECOGNIZED AS SOUND DESIGNATORS)

MENU

{GETLABEL "ENTER NAME OF MENU TO BE INVOKED: ",L000}{RECALC LEARN}

{IF @ISERR(@FIND("{IF ",@@(L00T),0))}{LET L02T,L02T+1}{RECALC L00T}{LET L22\,+L000}{LET L000,+"{LET "&L00T&"
{BRANCH L01F}

~

BELL

#NAME?
{IF L00W=""}{LET L00W,"{BEEP 0}{BEEP 0}{BEEP 2}{BEEP 3}"}{BRANCH L00A}
{LET L00W,""}{BRANCH L00A}

MACROS
IMBED MACRO FEATURES IN MACRO
      {LET L22\,"N "}{MENUBRANCH L00F}{MENUBRANCH L00\}{BRANCH L01A}