Programmable 58/59

Applied Statistics

Quick Reference Guide



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CALCULATING NOTES

Low Battery Indication

If the display flashes erratically, fades out, gives incorrect results or is inconsistent in any way, recharge the battery. Calculator operation can be resumed after several minutes of recharging.

Algebraic Hierarchy

Operations and functions are performed automatically in following order.

- 1. Math Functions (x2, cos, etc.)
- 2. Exponentiation (y^X) and Roots ($\sqrt[X]{y}$)
- 3. Multiplication, Division
 - 4. Addition, Subtraction
 - 5. Equals

Order applies to each set of parentheses. You can use up to 8 pending operations and 9 open parentheses, except where noted.

Flashing Display

A display flashing off and on indicates that an invalid key sequence has taken place or that the limits of the display have been exceeded. See Appendix B in *Personal Programming* for possible causes.

CONVERSIONS

Angle Formats

2nd DMS — DEGREES, MINUTES, SECONDS TO DECIMAL DEGREES — Converts an angle measured in degrees, minutes and seconds to its decimal degrees equivalent. [INV] 2nd DMS reverses this conversion. Also used for time conversions. Operates on display value only. Submit 2 digits each for minutes and seconds. Entry and display format is DD.MMSSsss where DD is degrees, MM is minutes, SS is whole seconds and sss is fractional seconds.

Polar to Rectangular

Rectangular to Polar

X x:t y INV 2nd P-R - + + ; x:t R

Only 4 pending operations are available for other uses when using D.MS or Polar/Rectangular conversions.

Angular Canusasians

FROM TO	Degrees	Radians	Grads
Degrees		$\times \frac{\pi}{180}$	÷ 0.9
Radians	$\times \frac{180}{\pi}$		$\times \frac{200}{\pi}$
Grads	× 0.9	$\times \frac{\pi}{200}$	

STATISTICS

Initialize: 2nd Pgm 1 SBR CLR

Data Entry: xi xit yi 2nd X+

Data Entry Removal: x; x:t y; INV 2nd X+ Trendline Data Entry: X1 xtt, Y1 2nd X+, Y2

2nd 2th, etc.

x' for new y

Trendline Point Removal: [x:t] - 1 = [x:t] yi INV 2nd

Key Sequence

Calculations
Mean of v-array

outoutations.	may adduction
Mean of y-array then x-array	2nd x x:t
Standard Deviation (N = 1 Weighting) of y-array then x-array (N Weighting) of y-array then x-array	INV 2nd X X:t INV 2nd 0 11 7 X:t 7
Variance (N Weighting) of y-array then x-array (N — 1 Weighting) of y-array then x-array	2nd 00 11 x:t 2nd x x² x:t x²
Y-Intercept	2nd @ 12
Slope after y-intercept	x:t
Correlation Coefficient	2nd 0 13
y' for new x	2nd 00 14

2nd 00 15

SPECIAL CONTROL OPERATIONS

Code		
nn	Function	

- 00* Initialize print register.
- 01* Alphanumerics for far left quarter of print column.
- 02* Alphanumerics for inside left quarter of print column.
- 03* Alphanumerics for inside right quarter of print column.
- 04* Alphanumerics for far right quarter of print
- 05. Print the contents of the print register.
- 06° Print last 4 characters of OP 04 with current display.
- 07* Plot + in column 0-19 as specified by the display.
- 08* List the labels currently used in program memory
- 09 Bring specified library program into program
- 10 Apply signum function to display register value
- 11 Calculate variances
- 12 Calculate slope and intercept
- 13 Calculate correlation coefficient
- 14 Calculate new y prime (y') for an x in the display.
- 15 Calculate new x prime (x') for a y in the display.
- 16 Display current partition of memory storage area
- 17 Repartition memory storage area
- 18 If no error condition exists in a program, set flag 7.
- 19 If an error condition exists in a program, set flag 7
- 20-29 Increment a data register 0-9 by 1
- 30-39 Decrement a data register 0-9 by 1
- *Designed specifically for use with optional PC-100A Print Cradle

ALPHANUMERIC PRINT CODES

The first seven control operations allow you to create and print out alphanumeric messages. Twenty characters can be printed on each line. They are assembled and stored in groups of 5 characters at a time as shown below.

	Progression	n of Paper		
01234	5 6 7 8 9	10 11 12 13 14	15 16 17 18 19	character
OP1	OP 2	OP 3	OP4 (OP6)	

Each printed character is represented by a two-digit, row-column address code according to the following table:

ij	1	2	3	4	5	6	7
	Û.	1	100	3	4	5	6
7	8	Ig.	H	B	C	D	E
-	F	G	H	I	J	K	L
14	N	П	F	0	R	8	L
L	U	V	ld.	X	Y	Ž	+
×	* 1/2	I	11	0	()	5
1	%	+	1	=	1	×	X
2	9	÷	0	I	,A.	П	X

For instance, A is code 13 and + is code 47

PROGRAMMING NOTES

Labels

Any key on the keyboard can be used as a label except 2nd, LRN, ns, De, SST, EST, nd and the numbers 0-9.

DSZ

This instruction can be used with registers 0-9. Entry sequence is [2nd] [51] X, N or nnn where X is the data register used followed by the transfer address (label N or absolute address nnn).

Flags

Ten flags are available (0-9). Entry sequence for setting, resetting or testing flags is the flag instruction, flag number, then transfer address (testing only).

MEMORY PARTITIONING

Memory area is partitioned in sets of 10 registers where each register can hold a data value or 8 program instructions. To check placement of current partition, press 2nd 16. To repartition, enter number of sets (N) of 10 data registers needed and press 2nd 17.

	Prograi	m/Data
N	TI-58	TI-59
N < 0 = N	CHINEHEE PURE	en ann an de
0	479/00	959/00
1	399/09	879/09
2	319/19	799/19
3	239/29*	719/29
Voer4 erre	159/39	639/39
5	079/49	559/49
or Magan	000/59	479/59*
01 1117 300	Flashing	399/69
8	Flashing	319/79
9	Flashing	239/89
10	Flashing	159/99
N > 10	Flashing	159/99

^{*}Partition when calculator is turned on.

PROGRAM KEY CODES

Key		Key		Key	
Code	Key	Code	Key	Code	Key
00	0	39	COS	72*	STO Ind
+	+	40	Ind	73*	RCL Ind
09	9	42	STO	74*	SUM Ind
10	E	43	RCL	75	(H) 10
11	A	44	SUM	76	Lbf
12	В	45	yx	77	xel
13	C	47	CMs	78	Σ+
14	D	48	Esc	79	X
15	E	49	Prd	80	Grad
16	A.	50	IxI	81	RST
17		52	EE	83*	GTO Ind
18	C.	53		84*	Op Ind
19	0	54		85	+
20	CLR	55	÷	86	St fig
22	INV	57	Eng	87	IIIe -
23	Inx	58	Fix	88	D.MS
24	CE	59	Int	89	π
25	CLR	60	Deg	90	List
27	INV	61	GTO	91	R/S
28	log	62*	Pgm Ind	92*	INV SBR
29	CP	63*	Exc Ind	93	
30	tan	64*	Prd Ind	94	+/-
32	x:t	65	X	95	=
33	x2	66	Pause	96	Write
34	√x	67	x=t	97	Dsz
35	1/2	68	Nop	98	Adv
36	Pgm	69	Op	99	Prt
37	P-R	70	Rad		
38	Sin	71	SBR		

^{*}Merged codes

RECORDING MAGNETIC CARDS (TI-59 Only)

Display When Write Pressed, Card Entered	Calculator Response
1, 2, 3, 4	Writes a card side with this number from the bank of this number (program and/or data) and records current partition on card.
-1, -2, -3, -4 Voerner	Writes and protects card side with this number from the bank with this number. Also records current partition on card.
Any other number	Card is passed but not recorded. Rightmost two integer digits of display are flashed.

If the display is flashing any value when trying to read or record a card, the card is passed but not read or recorded and the rightmost two integers in the display are flashed.

The calculator should be in standard display format when reading or recording cards.

Only the integer portion of the display is recognized, i.e., 1.234 = 1.

READING MAGNETIC CARDS (TI-59 Only)

Display When Card Entered	Calculator Response
O amount	Reads information into bank number listed on card if current partition matches that on card.
to paying of this said of this date	If partition incorrect, card is passed, but not read — display flashes card side passed.
1, 2, 3, 4	Expects card with this side number to be read — displays that side number.
Alstrictoria	If another side is entered or if partition is incorrect, card is passed but not read — display flashes card side passed.
-1, -2, -3, -	4 Forces side to be read into this bank number regardless of the partition or the number on the card.
deib E bne	A protected program cannot be forced into any bank or alternate partition.
Any other number	Card is passed but not read — rightmost two integers in display flash.

LIBRARY USER INSTRUCTIONS

The remainder of this booklet contains the User Instructions for each program of the library.

REMOVING AND INSTALLING MODULES.

The library module can easily be removed or replaced with another. It is a good idea to leave the module in place in the calculator except when replacing it with another module. Be sure to follow these instructions when you need to remove or replace a module.

CAUTION

Be sure to touch some metal object before handling a module to prevent possible damage by static electricity.

- Turn the calculator OFF. Loading or unloading the module with the calculator ON may cause the keyboard or display to lock out. Also, shorting the contacts can damage the module or calculator.
- Slide out the small panel covering the module compartment at the bottom of the back of the calculator.
- Remove the module. You may turn the calculator over and let the module fall out into your hand.
- Insert the module, notched end first with the labeled side up into the compartment. The module should slip into place effortlessly.
- Replace the cover panel, securing the module against the contacts.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
	Diagnostic/Module Check	13 5 4 8	250	TO SEC
1a	Select Program	18285	[2nd] [Pgm] 01	
1b	Run Diagnostic or	8488	[SBR] [=]	2.1
1c	Library Module Check		[SBR] [2nd] [R/S]	2.2
- 81	Initialize Linear Regression	BARTE S	是牙 医近级老师	
2a 2b	Select Program Initialize Linear Regression		[2nd] [Pgm] 01 [SBR] [CLR]	0.

NOTES.

- 1. This output is obtained if the calculator is operating properly
- 2. The number 2 indicates the Statistics Library.
- 3. The Statistics Library programs are numbered 1 through 22. Program number 0 is the calculator's program memory.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 02	No Change
2	Initialize		[2nd] [E']	0.
3	Enter random number seed (0 ≤ Seed ≤ 199017)	Seed†	[E]	Seed
	For Uniform Distribution		Empal (that intel	
4	Enter lower limit	x _{min} †	[A]	×min
5	Enter upper limit	x _{max} †	[8]	x _{max}
6	Generate random number ¹ (Repeat Step 6 as needed)		(c)	Random Number [†]
	For Normal Distribution	1		
7	Enter desired mean	μ [†]	[A]	μ
8	Enter desired standard deviation	σt	[B]	0
9	Generate random number ¹ (Repeat Step 9 as needed)		[D]	Random Number [†]
	For Either Distribution			
10	Compute actual mean of generated numbers		[2nd] [x]	×

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11	Compute actual standard	[INV] [2nd] [x]	5
12	deviation of generated numbers Display number of random numbers generated	[RCL] 03	n
	For Range of (0, 1)		
13	Generate random number (Repeat Step 13 as needed)	[SBR] [2nd] [D.MS]	Random Number

- 1. Only the first five digits may be considered random.
- † Printed when PC-100A is used.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 03	No Change
2	Initialize Data Base ¹	-	[E]	1.
3	Repartition if needed	n	[2nd] [Op] 17	Steps. Reg
	Enter data using either I or II			
1	KEYBOARD ENTRY		1997	
4	Enter data (repeat for each x _i) ²	xi [†]	[A]	i
	If Raw Data Base is filled:		191	
5a 5b	Record raw data on magnetic card(s) if desired ³ Reset Raw Data Pointer ⁴ and go to Step 4 to enter additional data		[C]	31.
6	Record intermediate data on magnetic card if desired ³		Shirt (200) (0.000)	
II	MAGNETIC CARD ENTRY ⁵			
7	Read raw data card(s)	Card	[CLR]	0. Bank No.
8	Reset Raw Data Pointer ⁴		[C]	31.

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9	Compile Intermediate Data Base (raw data is printed) ⁶		[D]	Last i
10	For additional data cards – go to Step 7			
	To delete data?:			
11	Enter unwanted data	×,	[2nd] [A']	x _i
12	Initialize Data Base ¹		[E]	1.
13	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
14	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶		[D]	Last i
15	Reenter raw data that has been overwritten using either Steps 4-6 or 7-10	18	100	
16	Continue entering new data			

NOTES: See Data Entry Notes.

^{*}For TI-58, repartition by pressing 6 [2nd] [Op] 17.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 03	No Change
2	Initialize Data Base ¹	-	[2nd] [E']	1.
3	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
R I	Enter data using either I or II		(2ma) (00) 47	Simena
1	KEYBOARD ENTRY			
4a 4b	Enter frequency ⁸ Enter data (repeat Step 4 for each x _i) ²	f _i † x _i †	[B] [A]	f _i
36	If Raw Data Base if filled:		101	resident
5a	Record raw data on magnetic		[200] [00] IA	Dante, Hop
5b	card(s) if desired ³ Reset Raw Data Pointer ⁴ and go to Step 4 to enter additional data		[2nd] [C']	32.
6	Record intermediate data on magnetic card if desired ³			
II	MAGNETIC CARD ENTRYS		iciai	0.
7	Read raw data card(s)	Card	[CLR]	0 Bank No.

8	Reset Raw Data Pointer		[2nd] [C']	32.
9	Compile Intermediate Data Base (raw data is printed) ⁶		[2nd] [D']	Last i
10	For additional data cards – go to Step 7			
	To delete data ⁷ :			
11a 11b	Enter frequency Enter unwanted x _i	f _i	[2nd] [B'] [2nd] [A']	f _i
12	Initialize Data Base ¹		[2nd] [E']	1.
13	Repartition if needed	n	[2nd] [Op] 17	Steps, Reg
14	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶	1	[2nd] [D']	Last i
15	Reenter raw data that has been overwritten using either Steps 4-6 or 7-10		per mer n	and the second
16	Continue entering new data		DOME THE	

NOTES: See Data Entry Notes for 1-7.

The frequency should be a positive integer. The display flashes for negative entries and zero; but no test is made for noninteger entries.

[†] Printed when PC-100A is used.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 04	No Change
2	Initialize Data Base ¹		[2nd] [E']	0.
3	Repartition if needed	n	[2nd] [Op] 17	Steps, Regs
	Enter data using either I or II			
I	KEYBOARD ENTRY		1 181	
4a 4b	Enter x _i Enter y _i	x _i † y _i †	[A] [B]	i
	(Repeat Step 4 for each data pair) ²	9	T LINE ROLL TY	Shappa, Benna
	If Raw Data Base is filled:		15040 FE, F	
5a	Record raw data on magnetic card(s) if desired ³		THE TOTAL STREET	12
5b	Reset Raw Data Pointer ⁴ and go to Step 4 to enter additional data		[D]	32.
6	Record intermediate data on magnetic card if desired ³			
П	MAGNETIC CARD ENTRY ⁵		1501.40.1	190
7	Read raw data card(s)	Card	[CLR]	0 Bank No.

8	Reset Raw Data Pointer	Cine	[D]	32.
9	Compile Intermediate Data Base (raw data is printed) ⁶		[2nd] [D']	Last i
10	For additional data cards – go to Step 7		(0)	11
	To delete data?:			
11a 11b	Enter unwanted x _i Enter unwanted y _i	x _i y _i	[2nd] [A'] [2nd] [B']	x _i y _i
12	Initialize Data Base ¹		[2nd] [E']	0.
13	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
14	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶	1 2	[2nd] [D']	Last i
15	Reenter raw data that has been overwritten using either Steps 4-6 or 7-10		(200) (00) 17	gate' gr
16	Continue entering new data		I I ISSUETE !	1 0

NOTES: See Data Entry Notes.

[†] Printed when PC-100A is used.

^{*}For TI-58, repartition by pressing 6 [2nd] [Op] 17.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 05	No Change
2	Initialize Data Base ¹		[2nd] [E']	0.
3	Repartition if needed	n	[2nd] [Op] 17	Steps, Regs
	Enter data using either I or II	1 1		
1	KEYBOARD ENTRY		1	1
4a	Enter xi	×i [†]	[A]	i
4b 4c	Enter y _i Enter z _i	y _i †	[B]	
40	(Repeat Step 4 for each data triplet) ²		3441 15 1	0
	If Raw Data Base is filled:	1 1	See 8.1	Al .
5a	Record raw data on magnetic card(s) if desired ³			
5b	Reset Raw Data Pointer ⁴ and go to Step 4 to enter additional data		[D]	33.
6	Record intermediate data on magnetic card if desired ³		(949) (0,)	Ten
п	MAGNETIC CARD ENTRYS	0	01	Bally you

7	Read raw data card(s)	Card	(cLR)	0 Bank No.
8	Reset Raw Data Pointer		[D]	33.
9	Compile Intermediate Data Base (raw data is printed) ⁶		[2nd] [D']	Last i
10	For additional data cards – go to Step 7		CLEI	
	To delete data ⁷ :		101	
11a 11b 11c	Enter unwanted x _i Enter unwanted y _i Enter unwanted z _i	x _i y _i z _i	[2nd] [A'] [2nd] [B'] [2nd] [C']	x _i Y _i z _i
12	Initialize Data Base ¹		[2nd] [E']	0.
13	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
14	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶		[2nd] [D']	Last i
15	Reenter raw data that has been overwritten using either Steps 4-6 or 7-10	-	Issuit (dpl 12	
16	Continue entering new data		Exact Persi 66	

NOTES: See Data Entry Notes.

† Printed when PC-100A is used.

^{*}For TI-58, repartition by pressing 6 [2nd] [Op] 17.

ANALYSIS OF VARIANCE DATA (ONE-WAY)

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 06	No Change
2	Initialize Data Base ¹		[2nd] [E']	0.
3	Repartition if needed	n	[2nd] [Op] 17	Steps, Regs
	Enter data using either I or II		(per loss or	
1	KEYBOARD ENTRY		and the same	
4	Enter data for Treatment Group i (repeat for each j) ²	×ij†	[A]	L.
	If Raw Data Base is filled:		DESCRIPTION OF THE PROPERTY OF	18
5a	Record raw data on magnetic card(s) if desired ³	2		
5b	Reset Raw Data Pointer ⁴ and go to Step 4 to complete entry of data for Current Treatment Group		[0]	31.
6	Calculate x for Current Treatment Group		[2nd] [B']	x†
7	Display s ² for Current Treatment Group		[2nd] [C']	s ² †

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8	Go to Step 4 for Next Treatment Group ⁸			
9	Record intermediate data on magnetic card if desired ³		racin him Learns	O man report to
11	MAGNETIC CARD ENTRYS	W	crista Maggainter is no	
10	Read raw data card(s) for Treatment Group i	Card	[CLR]	0. Bank No.
11	Reset Raw Data Pointer ⁴		[D]	31.
12	Compile Intermediate Data Base (raw data is printed) ⁶		[2nd] [D']	Last j
13	To enter additional data cards for Current Treatment Group — go to Step 10			
14	Calculate x for Current Treatment Group		[2nd] [B']	χ [†]
15	Display s ² for Current Treatment Group		[2nd] [C']	s ² †
16	Go to Step 10 for Next Treatment Group		(200) (E.)	0

	To delete data ⁷ :		1	
17	Enter unwanted data	×ii	[2nd] [A']	×ii
18	Initialize Data Base ¹		[2nd] [E']	0.
19	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
20	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶		[2nd] [D']	Last j
21	Continue entering data for Current Treatment Group		(2)(q) 1 m, 1	
22	Reenter data for Current Treatment Group that has been overwritten			
23	Calculate x for Current Treatment Group		[2nd] [B']	x t
24	Display s ² for Current Treatment Group	CHIC	[2nd] [C']	s ² †
25	Reenter raw data for previous Treatment Groups using either Steps 4-9 or 10-16		1200 (8)	
26	Enter data for New Treatment Groups			

NOTES: See Data Entry Notes for 1-7.

- If you are recording your raw data on magnetic cards, each Treatment Group should be recorded on separate sets of cards. To do this, simply reset the Raw Data Pointer here. Also, data deletion procedures are invalidated unless this pointer is reset.
- † Printed when PC-100A is used.
- * For TI-58, repartition by pressing 6 [2nd] [Op] 17.

ANALYSIS OF VARIANCE DATA (TWO-WAY)

ST-06

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program*		[2nd] [Pgm] 06	No Change
2	Initialize Data Base ¹		[E]	0.
3	Enter number of rows ⁸	R†	[B]	R
4	Enter number of columns ⁸	C†	[C]	C
5	Repartition if needed	n	[2nd] [Op] 17	Steps, Reg
	Enter data using either I or II			
1	KEYBOARD ENTRY			
6	Enter data for row i (repeat for each j) ²	×ij†	[A]	j
77	If Raw Data Base is filled:		(2mil/18)	72
7a	Record raw data on magnetic	and a town of	and the second	
7b	card(s) if desired ³ Reset Raw Data Pointer ⁴ and go to Step 6 to enter additional data		[D]	31.
	(Repeat 6-7 for each row)9	10 00 and	market listed the year from	Contra part
8	Calculate x 10	ner bu meduch	[2nd] [B']	x†
9	Display s ²		[2nd] [C']	s ² †

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10	Record intermediate data on magnetic card if desired ³	Sept 1001		
11	MAGNETIC CARD ENTRYS			
11	Read raw data card(s)	Card	[CLR]	0 Bank No.
12	Reset Raw Data Pointer ⁴		[D]	31.
13	Compile Intermediate Data Base (raw data is printed) ⁶		[2nd] [D']	Last j
14	For additional data cards – go to Step 11			
15	Calculate x 10		[2nd] [B']	x†
16	Display s ²		[2nd] [C']	s ^{2†}

	To delete data ⁷ :		(THO-WAY)	
17	Enter unwanted data ⁹	xii	[2nd] [A']	×ii
18	Initialize Data Base ¹		[E]	0.
19	Enter number of rows ⁸	R†	[B]	R
20	Enter number of columns ⁸	C†	[C]	C
21	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
22	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶		[2nd] [D']	Last j
23	Reenter raw data that has been overwritten using either Steps 6-9 or 11-16		[394] { C,]	
24	Continue entering new data			

See Data Entry Notes for 1-7.

- 8. R + C may not exceed 15.
- 9. Data deletion procedures may be invalidated unless the Raw Data Pointer is reset between rows.
- 10. This step may be performed only after all raw data is entered.
- † Printed when PC-100A is used
- * For TI-58, repartition by pressing 6 [2nd] [Op] 17.

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		DAT

ST-07

	morounam bana			01-0	
STEP	PROCEDURE	ENTER	PRESS	DISPLAY	
1	Select Program*		[2nd] [Pgm] 07	No Change	
2	Initialize Data Base ¹	et	[2nd] [E']	0.	
3	Enter number of cells ⁸	Cells [†]	[B]	Cells	
4	Enter lower limit	x _{min} †	[2nd] [B']	×min	
5	Enter cell width	Width [†]	[C]	Width	
6	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs	
	Enter data using either I or II				
1	KEYBOARD ENTRY				
7	Enter data (repeat for each x _i) ²	x _i †	[A]	i	
	If Raw Data Base is filled:				
8a	Record raw data on magnetic card(s) if desired ³				
8b	Reset Raw Data Pointer ⁴ and go to Step 7 to enter additional data	or out your date.	Larriage (Settle Parkett in a		
9	Record intermediate data on magnetic card if desired ³	Charles Tracks			
II	MAGNETIC CARD ENTRYS				
10	Read raw data card(s)	Card	[CLR]	0. Bank No.	

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11	Reset Raw Data Pointer ⁴	Parodiat	[D]	31.
12	Compile Intermediate Data Base (raw data is printed) ⁶	- STITES	[2nd] [D']	Last i
13	For additional data card(s) — go to Step 10	a material edge	t of a	The Callege
	To delete data?:		101	Stanton's
14	Enter unwanted data	× _i	[2nd] [A']	x _i
15	Initialize Data Base ¹		[2nd] [E']	0.
16	Enter number of cells	Cells [†]	[B]	Cells
17	Enter lower limit	×min [†]	[2nd] [B']	×min
18	Enter cell width	Width [†]	[C]	Width
19	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
20	Recompile raw data currently stored in Raw Data Base (raw data is printed) ⁶		[2nd] [D']	Last i
21	Reenter raw data that has been overwritten using either Steps 7-9 or 10-13		V 12-17 (A-1) (2	ALCONO.
22	Continue entering new data	Establish	ANDERSON	- CONSTRUCTOR

NOTES: See Data Entry Notes for 1-7.

^{8.} The number of cells may not exceed 12.

[†] Printed when PC-100A is used.

^{*} For TI-58, repartition by pressing 6 [2nd] [Op] 17.

MEANS AND MOMENTS

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 03	No Change
2	Enter Univariate Data according to User Instructions found in Section III.	Could be	18141 (8.1 -	500
3	Select Program		[2nd] [Pgm] 08	No Change
4	Calculate arithmetic mean		[A]	x [†]
5	Calculate geometric mean ¹	1000000	[B]	g [†]
6	Calculate harmonic mean	1000	[C]	h [†]
7a 7b 7c 8	Calculate second moment Calculate third moment Calculate fourth moment Calculate Kurtosis ² Calculate Skewness ²	i Cherty	[2nd] [A'] [R/S] [R/S] [D]	m ₂ † m ₃ † m ₄ † Kurtosis† Skewness

NOTES:

- 1. The geometric mean is not valid for negative values of x.
- 2. Step 7 must be performed before calculating Kurtosis or Skewness.
- t Printed when PC-100A is used.

HISTOGRAM CONSTRUCTION

ST-09

	more annual contention			011
STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program	1110	[2nd] [Pgm] 07	No Change
2	Enter Histogram Data according to User Instructions found in Section III.		\$100 Maril 18	All Street
3	Select Program		[2nd] [Pgm] 09	No Change
4	Initialize		[2nd] [E']	0.
5	Calculate sample mean		[A]	xt
6	Calculate sample standard deviation ¹		[2nd] [A']	s†
7a 7b	Display count of current cell ² Calculate upper limit of current cell ³		[B]	Count [†] × _{max} [†]
8	Display accumulation of cell counts		[RCL] 21	Σ Count

- The n-1 method is used here. You may calculate s² using the n method by pressing [2nd] [Op] 11 [x ≥ t].
- The cell number is incremented by 1 each time [B] is pressed. Divide the count by n to determine the frequency.
- 3. 7b must be performed immediately following 7a for the cell in question.
- † Printed when PC-100A is used.

THEORETICAL HISTOGRAM

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program	wax toyoners	[2nd] [Pgm] 07	No Change
2	Enter Histogram data according to User Instructions found in Section III		Bert Harris	Televi
3	Calculate sample mean if desired ^{1,6}		[2nd] [x̄] [x≥t]	×
4	Calculate sample standard deviation if desired 1,6		[INV] [2nd] [x̄] [x≷t]	Ignore s
	For Continuous Distribution			The s
5	Enter continuous probability function into program memory (do not use [=], [CLR], or [RST]) ²	f(x)	[2nd] [CP] [LRN] [2nd] [Lbl] [2nd] [A'] [INV] [SBR] [LRN]	Topic 10% 10 genetal 2 conse
6	Select Program		[2nd] [Pgm] 10	No Change
7	Initialize		[E]	0.
8	Calculate theoretically expected count of cell i ³ (repeat for each cell)		[A]	Count†
9	Calculate chi-square goodness of fit test ⁴	Joerg V	Vd&Iner	$Q(X^2)^{\dagger}$

	For Discrete Distribution ⁵		Brolei	A SANTON
10	Enter discrete probability function into program memory (do not use [=], [CLR, or		[2nd] [CP] [LRN] [2nd] [Lbl] [2nd] [A']	geste a
	[RST]) ²	f(k)	[INV] [SBR] [LRN]	0.35 00
11	Select Program		[2nd] [Pgm] 10	No Change
12	Initialize		[2nd] [E']	0.
13	Calculate theoretically expected count of cell i ³ (repeat for each cell)		[2nd] [A']	Count [†]
14	Calculate chi-square goodness of fit test ⁴		[C]	Q(X ²)†

- 1. Initialization of the Theoretical Histogram program destroys the data needed to compute \overline{x} and s. Note that if you need to know the observed counts of the cells in your Histogram you may perform the Histogram Construction program at this time.
- 2. Initialization of the Histogram Data program provides 60 data registers. If you own a TI Programmable 58 you will have to repartition your calculator before entering your subroutine. Observe that the prewritten library routines calculating f(x) for the normal and binomial distributions may be called by your subroutine. However, due to conflicting register assignments, the chi-square and student's -t routines may not be used. Initialization may take as long as a minute depending on the length of your subroutine.
- The cell number is incremented by 1 each time you press [A] or [2nd] [A'].
 Calculation of the expected count may take as long as a minute to complete. A count of zero causes a flashing display indicating invalid results. Press [RCL] 20 to display \$\tilde{\chi}\chi^2\$ for current cell.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
	For Preprogrammed Transform	all a compa	WASH CHEER FOUNDS	opper.
1	Select Program*	TOTAL STREET, ST.	[2nd] [Pgm] 11	No Change
2	Initialize ¹	Garney April 9	[2nd] [E']	1.
3	Repartition if desired	n	[2nd] [Op] 17	Steps, Regs
4	Choose Transform: Exponential, Logarithmic	n prepare	[2nd] [A'] [2nd] [B']	No Change No Change
5	Enter data (repeat for each x _i) ² For User-Defined Transform	xi	[A]	ou, h
6	Enter Transform into program memory (do not use [=], [CLR], or [RST])	f(x)	[2nd] [CP] [LRN] [2nd] [Lbl] [2nd] [A'] [INV] [SBR] [LRN]	po cursos.
7	Select Program	ibi la	[2nd] [Pgm] 11	No Change
8	Initialize ¹		[2nd] [E']	1.
9	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
10	Select User-Defined Transform mode	berg Wo	[2nd] [C']	No Change

	Datamath C	alculato	or Museur	n
11	Enter data (repeat for each x _i) ²	×i	[A]	11

- 1. Initialization uses routine [E] of the Univariate Data (Ungrouped) program,
- Once the data is transformed, it is entered using routine [A] of the Univarite Data (Ungrouped) program. See the User Instructions of that program for data deletion' procedures and limitations of the Raw Data Base. f(x) is printed when the PC-100A is used.
- 3. This program uses the same data registers as ST-03.
- * For TI-58, repartition by pressing 6 [2nd] [Op] 17.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
	For Preprogrammed Transforms			-
1	Select Program		[2nd] [Pgm] 12	No Change
2	Initialize ¹		[2nd] [E']	0.
3	Repartition if desired	n	[2nd] [Op] 17	Steps, Regs
4	Choose Transform: (x, ln y), (ln x, ln y), (ln x, y)		[2nd] [A'] [2nd] [B'] [2nd] [C']	No Change No Change No Change
5a 5b	Enter x ₁ ²	xi	[A]	i
50	Enter y _i ² (Repeat Step 5 for each data pair)	Yi	[8]	'
	For User-Defined Transforms	Service STA	Det Lot	
6	Enter Transforms into program memory (do not use [=], [CLR], or [RST])	Towns or	[2nd] [CP] [LRN] [2nd] [Lbl] [2nd] [A']	in 100k
	e julisigaçõe tura sastera (p.) o	f(x)	[INV] [SBR] [2nd] [Lbl]	The com
	0.2010	g(y)	[2nd] [B'] [INV] [SBR] [LRN]	No. Com

7	Select Program		[2nd] [Pgm] 12	No Change
8	Initialize ¹		[2nd] [E']	0.
9	Repartition if needed	n	[2nd] [Op] 17	Steps. Regs
10	Choose User-Defined Transform	1 6	[2nd] [D']	No Change
11a 11b	Enter x _i ² Enter y _i ²	× _i V _i	[A] [B]	1
	(Repeat Step 11 for each data pair)	Part I	15.5% (SAM)	

- 1. Initialization uses routine [2nd] [E'] of the Bivariate Data program.
- Once the data is transformed, f(x) is entered using routine [A] of the Bivariate Data
 program and g(y) is entered using routine [B]. Data must be entered in pairs, See
 the Bivariate Data User Instructions for data deletion procedures and limitations of
 the Raw Data Base. f(x) and g(y) are printed when the PC-100A is used.
- 3. This program uses the same data registers as ST-04.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
	For Preprogrammed Curve		Plant I d'a	
1	Select Program		[2nd] [Pgm] 12	No Change
2	Initialize ¹		[2nd] [E']	0.
3	Repartition if desired	n	[2nd] [Op] 17	Steps. Reg
4	Choose curve: Exponential, Power, Logarithmic	embryol uning purind (6) 23 (70) data deleti nt priment who	[2nd] [A'] [2nd] [B'] [2nd] [C']	No Change No Change No Change
5a 5b	Enter x _i ² Enter y _i ²	x _i y _i	[A] [B]	i
	(Repeat Step 5 for each data pair)		CHANGE PORT LUCK	
6a	Calculate y-intercept and slope of line fitted to data points	2	[C]	b
6b	Display slope	118	[x≥t]	m
7	Calculate y' given x	×	[D]	y'
8	Calculate x' given y	У	[E]	x'
9	Calculate correlation coefficient	loerg V	[2nd] [Op] 13	An Change

	For User-Defined Curve	1	1	1
10	Enter transforms into program	FINALUA	[2nd] [CP] [LRN]	- Albert
	memory (do not use [=],		[2nd] [Lbl]	
	[CLR], or [RST])	41.1	[2nd] [A']	Different
		f(x)	[INV] [SBR] [2nd] [Lbl]	
	March School Street		[2nd] [B']	1
	California Del Constanting	g(y)	[INV] [SBR]	
	a Daniel Andrew Felling Special Co.		[LRN]	
11	Select Program		[2nd] [Pgm] 12	No Change
12	Initialize ¹		[2nd] [E']	0.
13	Repartition if needed	n	[2nd] [Op] 17	Steps, Regs
14	Select User-Defined Curve Mode	1	[2nd] [D']	No Change
15a	Enter x ₁ ²	Lung I e I di	[A]	i
15b	Enter y _i ²	Court In court	[B]	1011
	(Repeat Step 15 for each data	Lot the Berg	of the contract of the contrac	
	pair)	-	- Comment	-
16a	Calculate slope and intercept of		[C]	b
	straight line fitted to trans-			
101	formed data		[26d] [Ob] 15	100
16b	Manually transform b to correct form		ABETT BAN IN'T	May 1
16c	Display transformed m		[x≷t]	m
16d	Manually transform m to		10-11	
	correct form		Thirt I wall I all	

17a	Calculate transformed y' given transformed x ³	×	[RST] [2nd] [A'] [2nd] [Op] 14	f(x)	1
17b	Manually transform g(y') to y'	La Frince	[2nd] [Op] 14	g(y')	
18a	Calculate transformed y' given transformed y ³	Y	[RST] [2nd] [B'] [2nd] [Op] 15	g(y) f(x')	
18b	Manually transform f(x') to x'				
19	Calculate correlation coefficient	4	[2nd] [Op] 13	r	

- 1. Initialization uses routine [2nd] [E'] of the Bivariate Data program.
- Once the data is transformed, f(x) is entered using routine [A] of the Bivariate Data
 program and g(y) is entered using routine [B]. Data must be entered in pairs. See the
 Bivariate Data program for data deletion procedures and limitation of the Raw Data
 Base f(x) and g(x) are printed when the PC-100A is used.
- 3. [RST] returns control to program memory and allows you to use your transform routines directly.
- 4. See Table 3.1 for register contents

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t-STATISTIC EVALUATION

ST-13

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program	CA STATISTICS	[2nd] [Pgm] 04	No Change
2	Enter Bivariate Data according to User Instructions found in Section III.			
3	Select Program		[2nd] [Pgm] 13	No Change
	For Paired Observation		101	
4	Compute t-Statistic		[A]	t [†]
5	Display degrees of freedom		[B]	υt
6	Display mean of difference between observations		(c)	$\overline{\Delta}^{\dagger}$
7	Display standard deviation of difference between observations	C ₁	[D]	s _{\Delta} †
	For Two Sample Test		(524) (00) 15	parter ap
8	Enter hypothesized difference and compute t-Statistic	Δ	[2nd] [A']	t [†]
9	Display degrees of freedom	3 CANVER	[B]	pt

NOTE:

† Printed when PC-100A is used.

CONTINGENCY TABLE ANALYSIS

ST-14

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program	77	[2nd] [Pgm] 14	No Change
2	Establish correct partitioning	6	[2nd] [Op] 17	Steps, 59
3	Enter number of rows ¹	R†	[D]	R
4	Enter number of columns ¹	C†	[E]	С
5	Initialize data entry routine ²	-1 01 100 010	[2nd] [E']	1.
6	Enter data by rows (i.e., x ₁₁ , x ₁₂ , x _{1C} , x ₂₁ , x _{RC}) ³	x _{ij} †	[A]	Next j
7	Calculate X ² -statistic ⁵	LOUPE IDON	[B]	X ²
8	Calculate degrees of freedom if desired	memory and	[0]	ν
9	Calculate cumulative distribution function		[2nd] [B']	P(X ²)

NOTES.

- 1. R X C can be no greater than 25.
- 2. This program uses its own data entry routine.
- 3. Do not enter negative values, If an error is made, begin again.
- 4. Perform Steps 1-7 first.
- 5. Execution time increases with ν .
- † Printed when PC-100A is used

1-WAY ANALYSIS OF VARIANCE

ST-15

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 06	No Change
2	Enter One-Way AOV data according to User Instructions found in Section III		101	
3	Select Program		[2nd] [Pgm] 15	No Change
4	Calculate F-statistic ¹		[A]	F†
5	Display degrees of freedom in numerator		[8]	ν_1^{\dagger}
6	Display degrees of freedom in denominator		[2nd] [B']	ν ₂ †
7	Display error sum of squares		[C]	ESS†
8	Display treatment sum of squares		[D]	TSS†
9	Display total sum of squares	-	[E]	SS†

- 1. Step 4 must be performed before Steps 5-9.
 - † Printed when PC-100A is used.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 06	No Change
2	Enter Two-Way AOV data according to User Instructions found in Section III	07		
3	Select Program		[2nd] [Pgm] 16	No Change
4	Calculate total sum of squares	201	[A]	SS†
5	Calculate column sum of squares		[B]	CSS†
6	Calculate row sum of squares ²		[2nd] [B']	RSS†
	For Column Effects		USING (LAWY 22)	Her committee
7	Calculate F-Statistic		[C]	Fc†
8	Calculate degrees of freedom in numerator		[D]	ν ₁ †
9	Calculate degrees of freedom in denominator		[R/S]	ν_2 †
	For Row Effects ³		FR655	Bigureri
10	Calculate F-Statistic		[2nd] [C']	FRT
11	Calculate degrees of freedom		othner	ν_1^{\dagger}

12 Calculate degrees of freedom in denominator	[R/S]	ν_2 †
--	-------	-----------

- 1. R + C cannot exceed 16.
- 2. Perform Step 5 before Step 6.
- 3. Perform Steps 7-9 first.
- † Printed when PC-100A is used.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 04	No Change
2	Enter Bivariate Data according to User Instructions found in Section III ¹			
3	Select Program		[2nd] [Pgm] 17	No Change
4	Rank data ²		[A]	Ordered data is flashed in display and printed.
5	Calculate rank sum of x ^{3,5}		[B]	Tx†
6	Calculate Mann-Whitney for x		[C]	w _x †
7	Calculate normal deviate for x		[D]	z _x †
8	Calculate rank sum of y ⁴		[2nd] [B']	Ty†
9	Calculate Mann-Whitney for y		[C]	w _v †
10	Calculate normal deviate for y		[D]	z _v †
11	Display rank mean	J.	[E]	w t
12	Display rank variance		[2nd] [E']	Sw ² †

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NOTES: 1. Enter all the x values first, then enter the y values. This invalidates data deletion procedures.

- 2. Perform this step before 5 or 8.
- 3. Perform this step before 6 and 7.
- 4. Perform this step before 9 and 10.
- 5. Execution time increases with the number of data points.
- † Printed when PC-100A is used.

STEP	PROCEDURE	ENTER	PRESS	DISPLAY
1	Select Program		[2nd] [Pgm] 05	No Change
2	Enter Trivariate Data according to User Instructions found in Section III		Bad Per D	100000
3	Select Program		[2nd] [Pgm] 18	No Change
4a	Calculate coefficients and display ap		[A]	a _o †
4b	Display a ₁		[B]	a ₁ †
4c	Display a ₂		[C]	a ₂ †
5	Calculate coefficient of determination		[D]	R ² †
6	Calculate z' for a given x and y	x [†] v [†]	[2nd] [A'] [2nd] [B']	x z't

NOTE: † Printed when PC-100A is used.

Data NORMAL DISTRIBUTION USEUM ST. 10

	1401111	INE DIGITIO	L DISTINDUTION		
STEP	PROCEDURE	ENTER	PRESS	DISPLAY	
1	Select Program	000000000000000000000000000000000000000	[2nd] [Pgm] 19	No Change	
2	Calculate standard normal density of z	Z	[A]	φ(z)	
3	Calculate $Pr(Z \le z)$	Z	[B]	P(z)	
4	Calculate Pr(Z > z)	z	[C]	Q(z)	
5	Calculate Pr(Z ≤ z)	Z	[D]	A(z)	

STEP	PROCEDURE	ENTER	PRESS	DISPLAY	
1	Select Program		[2nd] [Pgm] 20	No Change	
2	Enter number of trials	n	[A]	n	
3	Enter probability of success on each trial	р	[B]	р	
4	Calculate mean		[2nd] [A']	μ	
5	Calculate standard deviation		[2nd] [B']	σ	
6	Calculate probability of k successes	k	[C]	f(k)	
7	Calculate probability of k or fewer successes	k	[D]	P(k)	
8	Calculate probability of more than k successes	k	[E]	Q(k)	

- 1. Steps 4-8 may be performed at any time and in any order following Steps 1-3.
- If an output flashes in the display the calculator probably overflowed in calculation. Disregard results. (This only occurs for large n and small k.)

Datachi-square distribution USeum

ST-21

STEP	PROCEDURE	ENTER	PRESS	DISPLAY	
1	Select Program		[2nd] [Pgm] 21	No Change	
2	Enter degrees of freedom ¹	ν	[A]	$\Gamma(\nu/2)$	
3	Enter X ² -Statistic and calculate density function ²	χ ²	[B]	f(X ²)	
4	Enter X ² Statistic and calculate cumulative distribution function ²	χ2	[C]	P(X2)	

- 1. Execution time increases with ν .
- 2. Perform Step 2 first.

STUDENT'S-+ DISTRIBUTION

STEP	PROCEDURE	ENTER	PRESS	DISPLAY	
1	Select Program		[2nd] [Pgm] 21	No Change	
2	Enter degrees of freedom	ν	[A]	$\Gamma(\nu/2)$	
3	Enter t-Statistic and calculate density function ²	t	[D]	f(t)	
4	Enter t-Statistic and calculate cumulative distribution function ^{1, 2}	t	[E]	P(t)	

NOTES:

- 1 Execution time increases with v
- 2 Perform Step 2 first
- 3. Program operation leaves the calculator in radian mode.

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ST-22

STEP	PROCEDURE	ENTER	ENTER PRESS	
1	Select Program		[2nd] [Pgm] 22	No Change
2	Enter degrees of freedom in numerator	ν_1	[A]	ν_1
3	Enter degrees of freedom in denominator	ν_2	[B]	ν_2
4	Calculate Pr(F > F)1	×	101	Q(F)

NOTE:

1. Execution time increases as v_1 and v_2 increase and F decreases.

DATA ENTRY NOTES

The following notes apply to all Data Entry programs.

- Initialization affects only the intermediate data base and the raw data pointer. The raw data base is not disturbed. However, you may want to clear these registers using the [CMs] key before initialization (check partitioning). Initialization also provides 60 data registers as described earlier.
- The calculator ignores data entered after the raw data base is filled. This condition is indicated by a flashing display. You may determine how many pieces of data you can store in the raw data base using the following table. This table gives the upper limit of complete sets of data that may be stored for the indicated partitioning.

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Table 3.2.

The same of the same of	Name of the last			Partition	ing (n)		
Upper Limit of Data	4	5	6	7	8	9	10
Univariate Data (Ungrouped), Analysis of Variance Data, and Histogram Data	Х9	X ₁₉	X29	X39	X49	X5 9	X69
Univariate Data (Grouped)	X ₄ f ₄	X9 fg	x ₁₄ f ₁₄	x ₁₉ f ₁₉	X ₂₄ f ₂₄	X ₂ 9 f ₂ 9	X34 f34
Bivariate Data	X4 Y4	X9 Y9	X ₁₄ Y ₁₄	X ₁₉ Y ₁₉	X ₂₄ Y ₂₄	X ₂ 9 Y ₂ 9	X34
Trivariate Date	X ₂ Y ₂	X ₅ V ₅	X9 Y9	X ₁₂ Y ₁₂	X ₁ S V ₁ S	X19 V19	X22 Y22
The same confidences	Z2	Zs	Zg	Z12	Z15	Z19	Z22

- 3. Follow these steps to record the data base on magnetic cards.
 - 1. Place the bank number of the registers you wish to record in the display.
 - 2. Press [2nd] [Write].
 - 3. Insert magnetic card in card slot.

The bank number of the intermediate data base $(R_{0.0}-R_{2.9})$ is 4. The bank numbers of the raw data base are given below.

Registers	Bank Number
R ₃₀ - R ₅₉	3
R ₆₀ - R ₈₉	2
R ₉₀ - R ₉₉	1

Note that bank 1 includes program memory.

4. Resetting the raw data pointer to the beginning of the raw data base allows you to continue entering new raw data after filling the raw data base by writing over previously entered data. Although the intermediate data base is not affected, overwritten raw data is lost unless first stored on a magnetic card. Note that you may obtain a hardcopy printer listing of the data registers by entering the number of the first register you want listed and pressing [INV] [2nd] [List]. Then press [R/S] when you want to stop.

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- If you have already compiled your intermediate data base and recorded it on a magnetic card, simply read that card and go on to the data evaluation programs. You don't even have to call the Data Entry program to do this.
- The length of execution time increases with the number of data points when the intermediate data base is compiled directly from the raw data base.
- 7. Data must be deleted in the same form it is entered in (e.g., pairs, triplets, etc.). Data that has been overwritten may not be deleted. If the calculator cannot find the data you have asked it to delete, nines are flashed in the display. This process may take several seconds to complete.

Folian steer steel to award the data time on dispertic conts.

1. Place the being audition of site representatives with to record in the display.

2. From [2will | Wind ...

3. Trust analysis one in some site.

The stock company of this fine resource dissertes (Rev. = Right C.4). The part, resolved of the size data task and otherwise and otherwise data.

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TEXAS INSTRUMENTS

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