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HP 41 PROGRAM SUBMITTAL FORM
PROGRAMMFORMBLATT/DOCUMENTATION DU PROGRAMME/GENERALITÀ SUL PROGRAMMA

Program Title

Programtitel
Titre du programme
Titolo del programma

HISTOGRAM

Category No.

Kategorie Nr.
Catégorie Nr.
Categoria Nr.

301

Name

Rubrik
Rubrique
Nome della categoria

General statistics

No. of program lines

Anzahl Programmzeilen
Nombre de lignes de programme
Nº di linee di programma

169

No. of data registers

Anzahl des benötigten Datenspeicher
Nombre de registres de données
Nº di registri utilizzati

13+ n cells

Recommended HP 41 System configuration

Empfohlene System-Konfiguration

Port # 1

RAM

Port # 2

Configuration recommandée

Port # 3

Port # 4

Configurazione raccomandata

This program requires the following programs as subroutines:
Dieses Programm benutzt folgende Programme als Unterprogramme:
Ce programme utilise les programmes suivants comme sous-programmes:
Questo programma usa i seguenti programmi come subroutine:

Program Name:

Programm:

Nom du programme:

Programma:

HP Applications ROM

HP Applikationen ROM
ROM d'application HP
ROM di applicazione HP

Program Abstract
Kurzbeschreibung
Résumé
Breve descrizione
del programma

Giving the range of storing and the cellwidth, this program constructs a histogram of entered data.
After storing the data, each cell may be viewed by a number or *+ number of the stored data. Starsize may be defined.
Mean, standarddeviation and n are calculated of all the accepted data.
False data correction is possible.

Program Size 046

Name
Name/Nom/Nome Ed Nieuwenhuys

Address
Strasse/Adresse/Indirizzo Langaom 39

Country
Land Netherlands
Pays Paesi

Postal Code
Postleitzahl
Code postal
C.A.P.

1066 GC

City
Ort Amsterdam
Località
Città

ACKNOWLEDGMENT AND AGREEMENT

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Date

31-10-82

Signature
Unterschrift
Signature
Firma

ED NIEUWENHUYSEN

HEWLETT-PACKARD SA
Users' Program Library Europe

7, rue du Bois-du-Lan
P.O. Box, CH-1217 Meyrin 2
Geneva - Switzerland

PROGRAM DESCRIPTION I

PROGRAMMBESCHREIBUNG I
DESCRIPTION DU PROGRAMME I
DESCRIZIONE DEL PROGRAMMA I

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Application, Equations, Variables

Arwendung, Gleichungen, Veränderliche
Application, Equations, Variables
Applicazione, Equazioni, Variabili

A cell viewed like 0 - 10 means that the data from 0 till 10 are stored in this cell.
10 till 20 is stored in the next cell.

When your x-min = 0, your x-max = 25 and the increment is 10, three cells are created.
25 will be rejected, 0 will be accepted.

rejected	0	30
	3	25
	2	20
	1	10
		0

Operating limits and Warnings

Grenzen und Einschränkungen
Limites et restrictions
Limiti operativi e avvertenze

This program has been verified only with respect to the numerical example given in Program Description II. User accepts and uses this program material AT HIS OWN RISK, in reliance solely upon his own inspection of the program material and without reliance upon any representation or description concerning the program material.

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WEDER HP NOCH DER EINSENDER DES PROGRAMMS ÜBERNEHMEN FÜR DAS PROGRAMMATERIAL EINE IRGENDWIE GEARTETE GEWÄHRLEISTUNG ODER HAFTUNG, INSbesondere NICHT FÜR SEINE VERKAUFSLICHKEIT ODER SEINE VERWENDBARKEIT FÜR EINEN BESTIMMTEN ZWECK. HP UND DER EINSENDER HAFEN AUCH NICHT FÜR INDIREKTE ODER FOLGESCHÄDEN.

Le présent programme n'a été vérifié qu'en ce qui concerne l'exemple numérique indiqué dans la description du programme II. L'utilisateur accepte et utilise le présent programme A SES PROPRES RISQUES et doit se fier uniquement à sa propre inspection duudit programme sans se référer à toute autre déclaration et description.

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Questo programma è stato verificato soltanto per quanto concerne l'esempio numerico indicato nella Descrizione del Programma II. L'utilizzatore accetta e utilizzerà il presente programma A SUO RISCHIO, fidandosi unicamente della propria verifica del programma e non basandosi su altre dichiarazioni o descrizioni.

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PROGRAM DESCRIPTION II

PROGRAMMBESCHREIBUNG II

DESCRIPTION DU PROGRAMME II

DESCRIZIONE DEL PROGRAMMA II

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Example

Beispiel

Exemple

Esempio

A histogram is constructed with the following data.

-25, -30, -55, 75, 13, 10, 12, 88, 65, 73, 12, -28, 13, 6, 1, 78,
53, 28, 36, 25, -3, 48, -13, 12, 21, -2, -10, 35, 25, 64, 112, 18,
3, 25.

We want to accept all data between -60 and 60, the increment
(cellwidth) will be 10 and the * size will be two. So every
two stored data will be represented by one star.

If you want to sort data, just make an increment of one.

The data should not be in decimal and your SIZE must be large
enough!

Sketch
Zeichnung
Croquis
Schizzo

PROGRAM DESCRIPTION III

(Example continued)

(Beispiel Fortsetzung)

(Exemple, suite)

(Esempio)

PROGRAMMBESCHREIBUNG III

DESCRIPTION DU PROGRAMME III

DESCRIZIONE DEL PROGRAMMA III

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PROGRAM LISTING

PROGRAMMAUFLISTUNG

LISTAGE DU PROGRAMME

LISTATO DI PROGRAMMA

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Line Zeile Ligne Lines	Keystrokes Tastenfolge Touchés Tasti	Comments Kommentar Commentaires Commenti	Line Zeile Ligne Linea	Key pressed Tastenfolge Touchés Tasti	Comments Kommentar Commentaires Commenti
01	↳ LBL HIS CLRG		51	VIEW X RCL 08	
	• CF 01			X>Y?	
	Σ REG 00			GO TO 00 →	
05	X MIN? PROMPT		55	RCL 09 RCL 07	
	STO Q8			X ≤ Y?	
	X MAX?			GO TO 00 →	
	PROMPT			CLST	
10	STO 07 INCR?		60	RCL 09	
	PROMPT			Σ+	
	STO 10			LBL 06	
	1			RCL 09	
15	• CF 22 ⌘ SIZE? PROMPT		65	RCL 08 -	
	• FS? 22			RCL 10	
	• SF 01			/	
20	STO 06 RCL 07 RCL 08		70	INT 12	
	-			+ 1	
	RCL 10			- FS?C 02 ← RTN	
25	/		75	ST+ IND Y GO TO 00 →	
	FIX 0			↳ LBL 01	
	STO 10			SET SIZE	
	CLA			1	
	ARCL X			+	
30	↑ CELLS		80	ARCL X	
	AVIEW			PROMPT	
	PSE			GO TO 00 →	
	• SF 25			↳ LBL E	
	12			Σ REG 00	
35	+		85	FIX 4 MEAN	
	RCL IND X			MEAN=	
	• FC?C 25			ARCL X	
	XEQ 01			PROMPT	
	△ LBL 00				
40	FIX 0		90	SDEV	
	↑ OBS			SDEV=	
	RCL 05			ARCL X	
	1			PROMPT	
	+			FIX 0	
45	ARCL X		95	12	
	PROMPT			STO 03	
	• FC?C 22			RCL 08	
	GO TO E →			STO 04	
	STO 09			N=	
50	FIX 2		100	ARCL 05	

Please use paper glue to attach listings. Adhesive tape may affect print!
Bitte Listings mit Päperlein einkleben. Klebefilme können Druck bleichen!

S.V.P. utilisez de la colle à papier pour fixer les listings. Les rubans adhésifs peuvent altérer l'impression!
Per favore usare la colla per fissare i listati. Il nastro adesivo può alterare lo stampato!

PROGRAM LISTING

PROGRAMMAUFLISTUNG

LISTAGE DU PROGRAMME

LISTATO DI PROGRAMMA

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Line Zeile Ligne Linea	Keystrokes Tastenfolge Touchés Tasti	Comments Kommentar Commentaires Commenti	Line Zeile Ligne Linea	Key pressed Tastenfolge Touchés Tasti	Comments Kommentar Commentaires Commenti
101	PROGPT		51	← RTN	
	Σ REG 11			Δ LBL C	
	Δ LBL 02			• SF 02	
	RCL 04			XEQ 06 →	
05	RCL 07		55	ST- IND Y	
	X ≤ Y?			CLST	
	GO TO 00 →			RCL 09	
	CELL			-	
	ARCL 04			GO TO 00 →	
10	RCL 10		60	Δ LBL 08	
	ST+ 04			READY	
	+ -			PROMPT	
	ARCL 04			Δ LBL a	
	AVIEW			Σ REG 00	
15	PSE		65	↑ OBS	
	F=			PROMPT	
	ARCL IND 03			STO 09	
	• FS? 01			GO TO C →	
	XEQ 04 →		169	END	
20	• FC? 01		70		
	PROMPT				
	1				
	ST+ 03				
	GO TO 02 →				
25	Δ LBL 04		75		
	10				
	RCL IND 03				
	CLA				
	ARCL X				
30	+ :		80		
	RCL 06				
	/				
	X>Y?				
	TONE 9				
35	X>Y?		85		
	AVIEW				
	X>Y?				
	← RTN				
	INT				
40	STO 09		90		
	X=0?				
	AVIEW				
	X=0?				
	← RTN				
45	Δ LBL 05		95		
	*				
	DSE 09				
	GO TO 05 →				
	AVIEW				
50	PSE		00		

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REGISTERS, STATUS, FLAGS
 REGISTERBELEGUNG, FLAGS, BETRIEBSARTEN
 REGISTRES, INDICATEURS, MODES OPÉATOIRES
 REGISTRI, MODI OPERATIVI, FLAGS

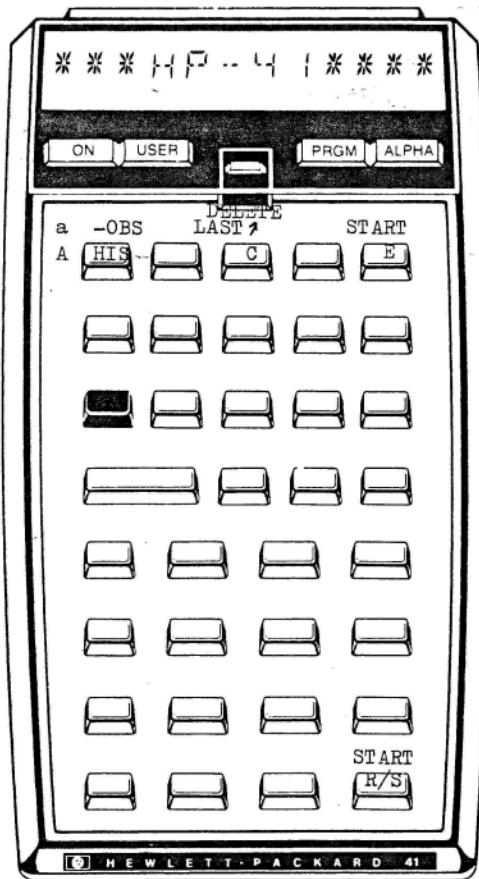
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Registers Datenspeicher/Registres de données/Registri			Status Betriebsart/Modes opératoires/Modi operativi			
00	Σx^2	50				Size VARIABLE Total Reg.
	Σx^2					User Mode
	Σy^2		Eng <input type="checkbox"/>	Fix <input checked="" type="checkbox"/>	Sci <input type="checkbox"/>	On <input checked="" type="checkbox"/>
	Σy		Deg <input type="checkbox"/>	Rad <input type="checkbox"/>	Grad <input type="checkbox"/>	Off <input type="checkbox"/>
05	Σxy					Purpose Bedeutung Signification Scopo
	n	55				Flags SET CLEAR
	* SIZE		00			
	x max		01	* AVIEW	<input checked="" type="checkbox"/>	F=
	x min		02	Data correction	<input checked="" type="checkbox"/>	x
10	OBS/ * counter	60	03			
	increment		04			
	no of cells		05			
			06			
			07			
			08			
			09			
			10			
			11	Audio execute		
			12			
20		70	13			
			14			
			15			
			16			
			17			
25		75	18			
			19			
			20			
			21	Printer Enable		
			22	Number Input	<input checked="" type="checkbox"/>	
30		80	23	Alpha Input		
			24	Range Ignore		
			25	Error Ignore	<input checked="" type="checkbox"/>	
			26	Audio Enable		
			27	User Mode		
35		85	28	Decimal Point	<input checked="" type="checkbox"/>	
			29	Digit Grouping		
			Assignments Tastenbelegung/Assignations/Assegnamenti			
40		90	Function Funktion Fonction Funzione	Key Taste Toucha Tasto	Function Funktion Fonction Funzione	Key Taste Toucha Tasto
			Delete last input C			
45		95	START	R/S, E		
			Delete input	a		
		99				

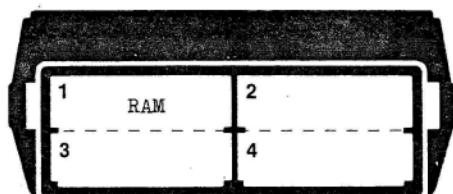
SYSTEM CONFIGURATION

CONFIGURAZIONE DEL SISTEMA

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Assignments
Belegungen
Assignations
Assegnamenti



Configuration
Belegung
Configuration
Configurazione



Magnetic card
Magnetcarte
Carte magnétique
Scheda magnetica