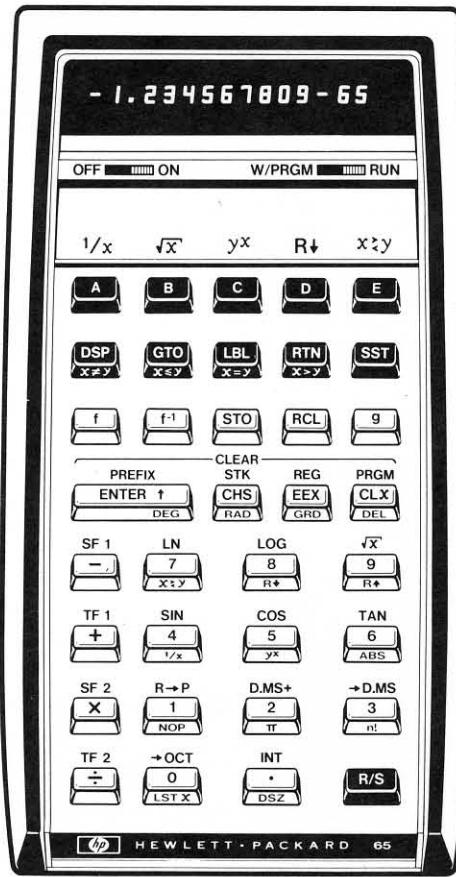


The logo for the HP 65 calculator, consisting of the letters "HP" in a stylized font where the "H" has vertical lines and the "P" has concentric circles, followed by the number "65" in a similar stylized font.

**PROGRAM FORMS**



### Merged Operations

STO 1	STO 5	RCL 1	RCL 5	g $x \neq y$	g $x \leq y$
STO 2	STO 6	RCL 2	RCL 6	g $x \leq y$	g $R \uparrow$
STO 3	STO 7	RCL 3	RCL 7	g $x = y$	g $R \uparrow$
STO 4	STO 8	RCL 4	RCL 8	g $x > y$	g NOP

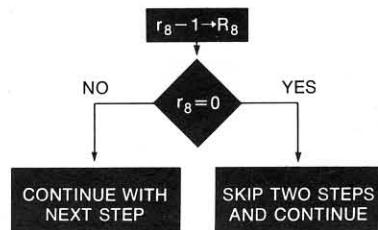
g LSTX

### To create and record a program:

1. Set the W/PRGM—RUN switch to W/PRGM.
2. Press **f PRGM** to clear memory.
3. Key in program steps.
4. Insert an unprotected (unclipped) card (printed side up) in the right, lower slot of the calculator. When the motor advances it through the card reader and out the left side of the calculator, the program is stored on the magnetic card.
5. Set the W/PRGM—RUN switch to RUN, and the program is ready to be used.
6. The information recorded on the card can be protected (that is, further recording is not allowed) if you clip off the upper left corner of the card.

### Notes:

1. **STO 9** and **RCL 9** are not merged into one program step.
2. Trigonometric functions, rectangular-polar conversions and relational operations (**x $\neq$ y**, **x $\leq$ y**, **x $=$ y**, **x $>$ y**) use register **R<sub>9</sub>** for scratch.
3. Conditional operations (**x $\neq$ y**, **x $\leq$ y**, **x $=$ y**, **x $>$ y**, **TF1**, **TF2**) skip two steps if false.
4. **DSZ** decrements contents ( $r_8$ ) of register **R<sub>8</sub>** and tests against zero as shown below:



# HP-65 Program Form

Title \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

SWITCH TO W/PRGM. PRESS **f** **PRGM** TO CLEAR MEMORY.

KEY ENTRY	CODE SHOWN	COMMENTS
10		
20		
30		
40		
50		

KEY ENTRY	CODE SHOWN	COMMENTS	REGISTERS
60			R <sub>1</sub>
70			R <sub>2</sub>
80			R <sub>3</sub>
90			R <sub>4</sub>
			R <sub>5</sub>
			R <sub>6</sub>
			R <sub>7</sub>
			R <sub>8</sub>
			R <sub>9</sub>
			LABELS
			A
			B
			C
			D
			E
			0
			1
			2
			3
			4
			5
			6
			7
			8
			9
			FLAGS
			1
			2

# HP-65 User Instructions

Title \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Programmer \_\_\_\_\_ Date \_\_\_\_\_



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