

C47 Ref page : Registers -- REGS (Register browser) on key g [▲]

(status bar)
R99:
R98:
R97:
R96:
R95:
R94:
R93:
R92:
R91:
R90:

(status bar)
R03:
R02:
R01:
R00:
W:
V:
U:
O:
H:
G:

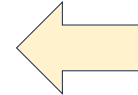
(status bar)
F:
E:
S:
R:
Q:
P:
N:
M:
K:
J:
...
...

(status bar)
I:
L:
D:
C:
B:
A:
T:
Z:
Y:
X:

REGS control keys
 [.] : Switch register/variable view,
 [R/S] : Switch contents/storage view,
 [RCL] : Recall bottom item,
 [▲], [▼], [A-Z], [0-9] : Navigate,
 [EXIT] : Exit Register browser ;
 Ref : https://n7calc.com/doc/C47/Reference/C47_Registers.pdf
 Lettered registers are numbered the same way as the lettered flags, see FLOS Browser
 (Ref : https://n7calc.com/doc/C47/Reference/C47_Flags_p1.pdf)

Nr	Register	Registers 00-99 General Purpose, R10-R37 prefilled with test values
00	R00	General purpose register R00
...	...	...
09	R09	General purpose register R09
10	R10	Reg 11, 12 & 13 have: The 3 cubes = 3.
11	R11	569936821221962380720
12	R12	-569936821113563493509
13	R13	-472715493453327032
14	R14	Reg 15, 16 & 17 have: The 3 cubes = 42.
15	R15	-48539738812075974
16	R16	80435759145617515
17	R17	12602123287335631
18	R18	37 digits of pi, Reg19 / Reg20.
19	R19	2646683125139304345
20	R20	842468597426513207
21	R21	Primes: Carol
22	R22	18814388241046527
23	R23	Primes: Kynea
24	R24	1844674082299486207
25	R25	Primes: repunit
26	R26	7369130657357778596659
27	R27	Primes: Woodal
28	R28	19584598277569926302400511
29	R29	Primes: Woodal
30	R30	477691310895204141824805622882488319
31	R31	Primes: Woodal
32	R32	22525179859446666140891543177471319574581426704478909733007331390393510002687
33	R33	pi.(10^100) (101 digits) longinteger
34	R34	31415926535897932384626433832795028841971693993751058209749445923078164062862089986280348253421170680
35	R35	0. ; The current configuration is stored in register 35 when setting the HP-35 profile in menu DEV
36	R36	100 primes' product 2x3x...x541
37	R37	47119307999061849531624878347602604220205747734096755201886348396164153358450342212052892567055446819...
38	R38	Heart:16x(sin(t)^3)+1x(13xcos(t)-5xcos(2t)-2xcos(3t)-cos(4t))
39...99	R39...R99	General purpose register R39...R99
Nr	Register	Registers 81-99 General purpose, plus special usage
81...99	R81...R99	General purpose register R81...R99 plus special usage in menu ELEC, cpxSlv and (R98) XFCNS
Nr	Letter	Registers 100-111 Special usage
100	X	Stack level 1
101	Y	Stack level 2
102	Z	Stack level 3
103	T	Stack level 4
104	A	Stack level 5
105	B	Stack level 6
106	C	Stack level 7
107	D	Stack level 8
108	L	Last X
109	I	General purpose register I ; also used to store current row of indexed matrix
110	J	General purpose register J ; also used to store current column of indexed matrix
111	K	General purpose register K ; special purpose : see table to the right
Nr	Register	Register 112-210 Local registers (scope is the current routine level)
112...210	R.00...R.99	Local registers R.00...R.99 for 1 routine (when allocated by LocR) ; example: DSE .00
Nr	Register	Register 211-224 General purpose, plus special usage as distribution parameter
211	M	General purpose register M ; also used to store distribution parameter : mean, median, location, degree of freedom 1, centre, lower limit
212	N	General purpose register N ; also used to store distribution parameter : degree of freedom 2, quantity, upper limit
213	P	General purpose register P ; also used to store distribution parameter : probability
214	Q	General purpose register Q ; also used to store distribution parameter : shape, 3rd integer
215	R	General purpose register R ; also used to store distribution parameter : rate
216	S	General purpose register S ; also used to store distribution parameter : scale, spread
217	E	General purpose register E
218	F	General purpose register F
219	G	General purpose register G ; also used to store third to last long integer prime factor for FACTORS
220	H	General purpose register H ; also used to store second to last long integer prime factor for FACTORS
221	O	General purpose register O
222	U	General purpose register U
223	V	General purpose register V
224	W	General purpose register W

Nr	Register	Special use in HP35 (https://n7calc.com/doc/C47/Reference/C47_HP35.pdf)
35	R35	The current configuration is stored in register 35 when setting the HP-35 tribute profile in menu DEV



Shaded values for the numbered registers are loaded by running the program PROGRAMS/tstData.p47 (use READP)
 For the simulator, the values can also be loaded using switch --testData

Nr	Register	Special usage in ELEC menu functions on Z, V and I ; in menu XFCNS for storing Virtual compound data types
90	R90	V.x ; triplet <R90> × R91 + R92
91	R91	V.y ; triplet R90 × <R91> + R92
92	R92	V.z ; triplet R90 × R91 + <R92>
93	R93	I.x ; triplet <R93> × R94 + R95
94	R94	I.y ; triplet R93 × <R94> + R95
95	R95	I.z ; triplet R93 × R94 + <R95>
96	R96	Z.x ; triplet <R96> × R97 + R98
97	R97	Z.y ; triplet R96 × <R97> + R98
98	R98	Z.z ; triplet R96 × R97 + <R98>

Register	Number	Registers General purpose, plus special usage
A	104	Stack level 5
B	105	Stack level 6
C	106	Stack level 7
D	107	Stack level 8
E	217	General purpose register E
F	218	General purpose register F
G	219	General purpose register G ; also used to store third to last long integer prime factor for FACTORS
H	220	General purpose register H ; also used to store second to last long integer prime factor for FACTORS
I	109	General purpose register I ; also used to store current row of indexed matrix
J	110	General purpose register J ; also used to store current column of indexed matrix
K	111	General purpose register K ; also used in VarMNU to store variable name when MVAR-defined button (<var...>) is pressed without NIM input ; also used to store last long integer prime factor for FACTORS or the remaining number to be factorised ; also used as the default alpha register for commands compatible with the HP-42S/DM42(n) calculator
L	108	Last X
M	211	General purpose register M ; also used to store distribution parameter : mean, median, location, degree of freedom 1, centre, lower limit
N	212	General purpose register N ; also used to store distribution parameter : degree of freedom 2, quantity, upper limit
O	221	General purpose register O
P	213	General purpose register P ; also used to store distribution parameter : probability
Q	214	General purpose register Q ; also used to store distribution parameter : shape, 3rd integer
R	215	General purpose register R ; also used to store distribution parameter : rate
S	216	General purpose register S ; also used to store distribution parameter : scale, spread
T	103	Stack level 4
U	222	General purpose register U
V	223	General purpose register V
W	224	General purpose register W
X	100	Stack level 1
Y	101	Stack level 2
Z	102	Stack level 3

Separate table for distribution parameters is on Ref : https://n7calc.com/doc/C47/Reference/C47_Distr_param.pdf