

STATEMENTS

CL (L) CLR Clear variables in memory
 D (A) DATA c1[,c2,...,cn] Define constant DATA for READ
 D (E) DEF FN name(variable) = expression Defines user function
 D (I) DIM var(s1,...,sn) [,var(s1,...,sn)...] Deminsion arrays
 E (N) END End of program execution
 F (O) FOR var=start TO limit [STEP increment] Loop from FOR to NEXT
 N (E) NEXT [var] [,var]... Terminates FOR loops
 G (E) GET var1 [,var2,...,var10] Read keyboard keys into variables
 G (S) GOSUB line# Go to subroutine at line# and return to next statement
 G (O) GOTO line# Go to line#
 IF IF exp THEN line# if exp is true, then go to line#
 IF exp THEN statements If exp is true, then execute statements on line

INPUT INPUT ["prompt";] variable list Read keyboard data into variable list
 L (L) [LET] variable = exp Assign exp to variable
 ON ON exp GOTO or GOSUB line#[,line#] Go to line# indexed by exp
 P (O) POKE adr,value Put 8-bit value into memory adr
 ? PRINT[var1] [,var2 or ;var2] [:] Write variables
 R (E) READ var1[,var2...varn] Read DATA statements into variables
 REM REM [text] Remark statement
 RE (S) RESTORE Reset DATA statement pointer to beginning
 RE (T) RETURN Exit subroutine to statement following GOSUB
 S (I) STOP Stops program execution
 S (Y) SYS addr Go to memory address addr and execute machine program
 W (A) WAIT adr,mask1[,mask2] Wait for address adr to match mask(s)

BASIC

A I (B) ABS(exp) — Absolute value of exp
 A (S) ASC(n) — Convert Commodore ASCII to value n
 A I (T) ATN(n) — Arctangent of n
 COS COS(n) — Cosine of n
 E + (X) EXP(n) — e(2.7182 ...) raised to power n
 F (R) FRE(dmy) — Returns amount of free memory space
 INT (N) INT(n) — Returns integer part
 LEN LEN(str) — Returns length of string
 LOG LOG(n) — Log base e of n

NUMERIC FUNCTIONS

P (E) PEEK(adr) — Return value at addr
 POS (O) POS(dmy) — Returns cursor position
 RN (N) RND(n) — Random number (0.0 to 1.0)
 S (I) SIN(n) — Sine of n
 S (O) SQR(n) — Square root of n
 ST STATUS — Status of last I/O operation
 TAN TAN(n) — Tangent of n
 T I TIME — Elapsed time in 1/60 seconds
 U (S) USR(adr) — Jump to user subroutine
 V (A) VAL(str) — Converts numeric string to value

LEROY'S CHEATSHEET — Keyboard Overlay for the COMMODORE VIC-20 and 64

COMMANDS

CF (O) CONT Continue to RUN program after STOP or END.
 L (I) LIST [first line#] - [second line#] List program
 LF (O) LOAD ["filename"] [,device#] [,address] Load program
 NEW NEW Delete current program and clear variables
 R (U) RUN [line#] Run program and clear variables
 S (A) SAVE ["filename"] [,device#] [,address] Save program
 V (E) VERIFY ["filename"] [,device#] Compare saved program

Scanned by c64copyprotection.com
 OCREd and optimized version by CheatSheets.One

DEVICE NUMBER

- 0 Keyboard
- 1 Cassette tape
- 2 RS232
- 3 Screen
- 4 Printer #1
- 5 Printer #2
- 8 Disk #1 (15=CMD CHNL)
- 9 Disk #2 (16=CMD CHNL)
- 10 Disk #3 (17=CMD CHNL)
- 11 Disk #4 (18=CMD CHNL)

A (N) AND
 OR OR
 N (O) NOT

DISK COMMANDS

OPEN 15,8,15,"UI":CLOSE15 Sets 1541 disk to use VIC-20
 VERIFY"TEST",8 Compares program with memory
 OPEN15,8,15 Opens CMD channel for the following:
 PRINT#15,"N0:diskname,ID" Formats blank diskette (2 to 3 min)
 PRINT#15,"C0:newfile=0:oldfile" Copies file
 PRINT#15,"R0:newname=oldname" Renames file
 PRINT#15,"S0:filename" Erases file
 PRINT#15,"I" Initialize disk
 PRINT#15,"V" Validate diskette
 LOAD"\$",8 Loads disk directory into memory
 SAVE"@0:TEST",8 Saves and replaces program

STRING FUNCTIONS

C I (H) CHR\$(n) — Convert n to ASCII character
 LE (F) LEFT\$(str,n) — Leftmost n characters
 M (I) MIDS(str,s,n) — Substring starting at s for n char
 R (I) RIGHT\$(str,n) — Rightmost n characters
 S (P) SPC(n) — Print (or output) n spaces
 ST (R) STR\$(n) — Convert n to string
 T (A) TAB\$(n) — Tab to nth position
 T I \$ TIMES — Set and return time as hhmmss

STATEMENTS (I/O)

CL (O) CLOSE [file#] Close file
 C (N) CMD file#[,string] Re-direct display output to file#
 GET # GET# file#, var1, [,var2 ... ,varn] Read character from file #
 I (N) INPUT# file#,variable list Read data from file# to variable list
 O (P) OPEN file#[,device#] [,addr#] [, "filename[, REL or SEQ] [, R or W]"]
 Open file for device
 P (R) PRINT# file#[,var1] [,var2 or ;var2] [:] Write variables to file
 R (E) READ var[,var2 ... ,varn] Read DATA statements into variables

LISTING PROGRAM ON PRINTER

OPEN 4,4:CMD4:LIST:PRINT#4:CLOSE4