

## NBASIC Function Reference

\$ERR(data\$)	Retrieves error information	Version 2.2 or later, all editions
\$FILE	Name previously loaded or saved file	Version 2.7 or later, all editions
\$GLOBAL(variable)	Retrieves value of global scalar variable	Version 2.6 or later, all editions
\$IF(condition%,expression,expression)	Conditionally evaluates expressions	Version 2.2 or later, all editions
\$INF(data\$)	Retrieves runtime information	Version 2.2 or later, all editions
\$REP(data\$)	Retrieves report information	Version 2.9 or later, all editions
\$SYS(data\$)	Retrieves system information	Version 2.0 or later, all editions
ABS(number#)	Absolute value of the number	
ABS!(number!)	Absolute value of the number	Version 2.0 or later, all editions
ABS#(number#)	Absolute value of the number	Version 2.0 or later, all editions
ABS%(number%)	Absolute value of the number	Version 2.0 or later, all editions
ACCESS(filename\$[,mode%])	-1 (true) if the file is accessible in the specified mode, otherwise 0 (false)	
ACCESS%(filename\$[,mode%])	-1 (true) if the file is accessible in the specified mode, otherwise 0 (false)	Version 2.0 or later, all editions
ACOS(number#)	Arccosine of the number	
ADDDAYS(time#,days#)	Time value adjusted by the specified days	Version 1.6 or later, standard edition only
ADDHRS(time#,hours#)	Time value adjusted by the specified hours	Version 1.6 or later, standard edition only
ADDMINS(time#,minutes#)	Time value adjusted by the specified minutes	Version 1.6 or later, standard edition only
ADDSECS(time#,seconds#)	Time value adjusted by the specified seconds	Version 1.6 or later, standard edition only
ADJUST(time#,seconds#)	Time value adjusted by the specified seconds	

AFTER\$(string\$,index%)	The string after the specified index	Version 1.0 or later, standard edition only
ALNUM(character\$)	-1 (true) if the character is alphanumeric, otherwise 0 (false)	
ALNUM%(character\$)	-1 (true) if the character is alphanumeric, otherwise 0 (false)	Version 2.0 or later, all editions
ALPHA(character\$)	-1 (true) if the character is alphabetic, otherwise 0 (false)	
ALPHA%(character\$)	-1 (true) if the character is alphabetic, otherwise 0 (false)	Version 2.0 or later, all editions
AMPM(time#)	0 (zero) if time value is AM or 1 (one) if PM	
AMPM[(time#)]	0 (zero) if time value is AM or 1 (one) if PM	Version 2.0 or later, all editions
AMPM%[(time#)]	0 (zero) if time value is AM or 1 (one) if PM	Version 2.0 or later, all editions
ANGLE(x#,y#)	Angle in radians between the specified point and the origin (0,0)	
ARRANGE\$(string\$[,direction%])	Returns string with characters arranged in order	Version 3.0.1 or later, standard edition only
ASC(character\$)	Ordinal value of the character	
ASC%(character\$)	Ordinal value of the character	Version 2.0 or later, all editions
ASCII(character\$)	Ordinal value of the character	Version 2.0 or later, all editions
ASCII%(character\$)	Ordinal value of the character	Version 2.0 or later, all editions
ASIN(number#)	Arcsine of the number	
ATAN(number#)	Arctangent of the number	Version 2.0 or later, all editions
ATN(number#)	Arctangent of the number	
ATOZ\$	String containing alphabetic characters A-Z	Version 2.0 or later, all editions
ATTRIB\$(filename\$)	"R" if the file is read-only, otherwise "" (empty string)	
BEFORE\$(string\$,index%)	String before specified index	Version 1.0 or later, standard edition only
BEG\$(string\$)	Beginning character of the string	Version 2.0 or later, all editions

BEGINSWITH(string1\$,string2\$)	-1 (true) if the first string begins with the second string	Version 1.2 or later, standard edition only
BEGINS[WITH](string1\$,string2\$)	-1 (true) if the first string begins with the second string	Version 2.0 or later, standard edition only
BEGINS[WITH]%(string1\$,string2\$)	-1 (true) if the first string begins with the second string	Version 2.0 or later, standard edition only
BIN\$(number%)	String representing the binary value of the number	
BREAK(string1\$,string2\$)	Index of the first occurrence of any character from the second string in the first string	Version 1.0 or later, standard edition only
BREAK%(string1\$,string2\$)	Index of the first occurrence of any character from the second string in the first string	Version 2.0 or later, standard edition only
BSEARCH(array,value[,,[start%][,end%]])	Index of matching value in array or -1 if not found	Version 2.0 or later, standard edition only
BSEARCH%(array,value[,,[start%][,end%]])	Index of matching value in array or -1 if not found	Version 2.0 or later, standard edition only
BUFSIZ(file%)	Buffer length of the open file	Version 1.5 or later, all editions
BUFSIZ([#]file%)	Buffer length of the open file	Version 2.0 or later, all editions
BUFSIZ%([#]file%)	Buffer length of the open file	Version 2.0 or later, all editions
CAT\$(string\$[,index%])	Character in the string at index	Version 2.0 or later, all editions
CBR(number#)	Cube root of the number	
CBRT(number#)	Cube root of the number	
CBT	Cursor blink time	Version 1.0 or later, all editions
CBT%	Cursor blink time	Version 2.0 or later, all editions
CDBL(number)	Number converted to double-precision	Version 2.0 or later, all editions
CDBL#(number)	Number converted to double-precision	Version 2.0 or later, all editions
CDN(character\$)	Decimal digit converted to a number	
CDN%(character\$)	Decimal digit converted to a number	Version 2.0 or later, all editions

CEIL(number#)	Ceiling of the number	
CENTER\$(string\$,length%[,pad\$])	String centered in the specified number of spaces	Version 1.0 or later, standard edition only
CHANGE\$(string1\$,string2\$,string3\$)	String with each occurrence of the second string within the first string replaced with the third string	Version 1.0 or later, standard edition only
CHARAT\$(string\$,index%)	Character in the string at index	
CHARS\$	String containing every character (&H00-&HFF)	Version 1.0 or later, standard edition only
CHARS2\$	String containing every character except NUL (0) (&H01-&HFF)	Version 3.0 or later, standard edition only
CHN(character\$)	Hexadecimal digit converted to a number	
CHN%(character\$)	Hexadecimal digit converted to a number	Version 2.0 or later, all editions
CHOOSE(index%,number#[,number#]...)	Number at the specified index in the argument list	Version 1.0 or later, standard edition only
CHOOSE!(index%,number![,number!]...)	Number at the specified index in the argument list	Version 2.0 or later, standard edition only
CHOOSE#(index%,number#[,number#]...)	Number at the specified index in the argument list	Version 2.0 or later, standard edition only
CHOOSE\$(index%,string\$[,string\$]...)	String at the specified index in the argument list	Version 1.0 or later, standard edition only
CHOOSE%(index%,number%[,number%]...)	Number at the specified index in the argument list	Version 2.0 or later, standard edition only
CHR\$(number%)	String containing the character associated with the character code	
CHR\$(number%[,number%]...)	String containing the character associated with the character code	Version 1.4 or later, all editions
CHRS\$(number%[,number%]...)	String containing the character associated with the character code	Version 1.4 or later, all editions
CINT(number)	Number converted to an integer	Version 2.0 or later, all editions
CINT%(number)	Number converted to an integer	Version 2.0 or later, all editions
CLEAN\$(string\$)	String with all non-printable characters removed	Version 1.0 or later, standard edition only
CLIPBOARD\$	Windows clipboard text	Version 1.6 or later, standard edition only

CNTRL(character\$)	-1 (true) if the character is a control character, otherwise 0 (false)	
CNTRL%(character\$)	-1 (true) if the character is a control character, otherwise 0 (false)	Version 2.0 or later, all editions
COALESCE(number#[,number#]...)	First non-zero number in the list	Version 1.6 or later, standard edition only
COALESCE!(number![,number!]...)	First non-zero number in the list	Version 2.0 or later, standard edition only
COALESCE#(number#[,number#]...)	First non-zero number in the list	Version 2.0 or later, standard edition only
COALESCE\$(string\$[,string\$]...)	First non-empty string in the list	Version 1.6 or later, standard edition only
COALESCE%(number%[,number%]...)	First non-zero number in the list	Version 2.0 or later, standard edition only
COLOR[(color%)]	Current text color	
COLOR[(color%)]	Current text color	Version 2.0 or later, all editions
COLORS	Number of colors in current palette	Version 3.0.1 or later, all editions
COLORS%	Number of colors in current palette	Version 3.0.1 or later, all editions
COLUMN	Column position of the cursor	
COL[UMN]	Column position of the cursor	Version 2.0 or later, all editions
COL[UMN]%	Column position of the cursor	Version 2.0 or later, all editions
COMB(n%,k%)	Number of combinations	
COMP(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 1.4 or later, all editions
COMP%(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 2.0 or later, all editions
COMPA(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 2.0 or later, all editions
COMPA%(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 2.0 or later, all editions
COMPI(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 1.5.2 or later, all editions
COMPI%(value1,value2)	0 if value1 and value2 are equal, 1 if value1 is greater, otherwise -1	Version 2.0 or later, all editions

COMPRESS\$(string\$)	String with spaces trimmed from the left and right and with duplicate spaces compressed to a single space	
CONTAINS(string1\$,string2\$)	-1 (true) if the first string contains the second string, otherwise 0 (false)	Version 1.6 or later, all editions
CONTAINS%(string1\$,string2\$)	-1 (true) if the first string contains the second string, otherwise 0 (false)	Version 2.0 or later, all editions
COPYRIGHT\$	Copyright information	
COPYSIGN(number1#,number2#)	First number with the sign of the second number	
COPYSIGN!(number1!,number2!)	First number with the sign of the second number	Version 2.0 or later, all editions
COPYSIGN#(number1#,number2#)	First number with the sign of the second number	Version 2.0 or later, all editions
COPYSIGN%(number1%,number2%)	First number with the sign of the second number	Version 2.0 or later, all editions
COS(angle#)	Cosine of the angle	
COSH(angle#)	Hyperbolic cosine of the angle	
COT(angle#)	Cotangent of the angle	
COUNT(string1\$,string2\$)	Number of occurrences of the second string within the first string	
COUNT%(string1\$,string2\$)	Number of occurrences of the second string within the first string	Version 2.0 or later, all editions
CRLF\$	String containing the carriage return and line feed characters (decimal 13,10)	Version 2.0 or later, all editions
CSC(angle#)	Cosecant of the angle	
CSI\$[(sequence\$)]	Control sequence initiator string	Version 2.7 or later, all editions
CSI\$[(sequence\$[,sequence\$]...)]	Control sequence initiator string	Version 2.9 or later, all editions
CSNG(number)	Number converted to single-precision	Version 2.0 or later, all editions
CSNG!(number)	Number converted to single-precision	Version 2.0 or later, all editions
CSPAN(string1\$,string2\$)	Length of the substring beginning the first string not containing characters in the second string	Version 1.0 or later, standard edition only

CSPAN%(string1\$,string2\$)	Length of the substring beginning the first string not containing characters in the second string	Version 2.0 or later, standard edition only
CSRLIN	Row position of the cursor	
CSRLIN%	Row position of the cursor	Version 2.0 or later, all editions
CSTR\$(number)	String representing the decimal value of the number	Version 2.0 or later, all editions
CTIME\$(time#)	String containing the formatted date and time of the time value	
CTRL\$	CTRL key	Version 1.2 or later, all editions
CUBE(number#)	Cube of the number	
CUBE!(number!)	Cube of the number	Version 2.0 or later, all editions
CUBE#(number#)	Cube of the number	Version 2.0 or later, all editions
CUBE%(number%)	Cube of the number	Version 2.0 or later, all editions
CVD(string\$)	Binary string converted to a double-precision number	Version 2.0 or later, all editions
CVD#(string\$)	Binary string converted to a double-precision number	Version 2.0 or later, all editions
CVI(string\$)	Binary string converted to an integer number	Version 2.0 or later, all editions
CVI%(string\$)	Binary string converted to an integer number	Version 2.0 or later, all editions
CVI1(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVI1%(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVI2(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVI2%(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVI4(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVI4%(string\$)	Binary string converted to an integer number	Version 2.8.5 or later, all editions
CVN(string\$)	Binary string converted to a number	

CVS(string\$)	Binary string converted to a single-precision number	Version 2.0 or later, all editions
CVS!(string\$)	Binary string converted to a single-precision number	Version 2.0 or later, all editions
CVTIME(string\$)	Time value	Version 2.0 or later, all editions
DATE	Current date as a number in the form YYYYDDD	
DATE\$[(time#[,separator\$][,leadingZero%]]]	Formatted date in the form MM-DD-YYYY	
DATE%	Current date as a number in the form YYYYDDD	Version 2.0 or later, all editions
DATE2\$(time#)	Formatted date in the form DD-MMM-YYYY	Version 2.0 or later, all editions
DATE3\$(time#[,shortMonthName%][,leadingZero%][,spaceBeforeYear%][,upperCase%]]])	Formatted date in the form MMM DD, YYYY	Version 2.3 or later, all editions
DATETIME\$(time#)	Formatted date in the form MM-DD-YYYY HH:MM:SS	Version 2.0 or later, all editions
DATETIME2\$(time#)	Formatted date in the form MM/DD/YYYY HH:MM:SS *M	Version 2.0 or later, all editions
DATETIME3\$(time#)	Formatted date in the form M/D/YYYY HH:MM:SS*M	Version 2.0 or later, all editions
DATETIME4\$(time#)	Formatted date in the form DD-MMM-YYYY HH:MM:SS.SS	Version 2.0 or later, all editions
DAY(time#)	Day of the month of the time value	
DAY%(time#)	Day of the month of the time value	Version 2.0 or later, all editions
DAYNAME\$(day%[,format%])	Day name of the time value	
DAYS([month%[,year%]])	Number of days in the specified month and year	Version 2.0 or later, all editions
DAYS%([month%[,year%]])	Number of days in the specified month and year	Version 2.0 or later, all editions
DAYS2([time#])	Number of days in the month represented by the time value	Version 2.0 or later, all editions
DAYS2%([time#])	Number of days in the month represented by the time value	Version 2.0 or later, all editions
DEBUG	-1 (true) if debug mode is on, otherwise 0 (false)	Version 1.0 or later, standard edition only



DEBUG%	-1 (true) if debug mode is on, otherwise 0 (false)	Version 2.0 or later, standard edition only
DEC(string\$[,base%])	String converted to a number	
DEFAULT(volume\$)	-1 (true) if the volume is the default, otherwise 0 (false)	
DEFAULT%(volume\$)	-1 (true) if the volume is the default, otherwise 0 (false)	Version 2.0 or later, all editions
DEFVOL\$	Default volume name	Version 1.6 or later, all editions
DEG(radians#)	Radians converted to degrees	
DELETE\$(string\$,index%,length%)	String with specified part deleted	Version 1.0 or later, standard edition only
DET(array)	Calculates the determinant of a numeric array	Version 2.8 or later, standard edition only
DIGIT(character\$)	-1 (true) if the character is a numeric digit, otherwise 0 (false)	
DIGIT%(character\$)	-1 (true) if the character is a numeric digit, otherwise 0 (false)	Version 2.0 or later, all editions
DIGITS\$	Digits string ("0123456789")	Version 2.0 or later, all editions
DOLLAR\$(amount#[,decimals%])	Number formatted as currency	Version 1.0 or later, standard edition only
DTR(degrees#)	Degrees converted to radians	
EDIT\$(length%,string\$)	Edited string	Version 1.0 or later, standard edition only
EDITAT\$(row%,column%,length%,string\$)	Edited string	Version 1.6 or later, standard edition only
EMPTY(value)	-1 (true) if the expression is 0 or an empty string, otherwise 0 (false)	Version 1.4 or later, all editions
EMPTY%(expression)	-1 (true) if the expression is 0 or an empty string, otherwise 0 (false)	Version 2.0 or later, all editions
ENCLOSE\$(string\$[,characters\$])	String enclosed with specified characters	Version 1.4 or later, all editions
END\$(string\$)	Ending character of the string	Version 2.0 or later, all editions
ENDSWITH(string1\$,string2\$)	-1 (true) if the first string ends with the second string	Version 1.2 or later, standard edition only
ENDS[WITH](string1\$,string2\$)	-1 (true) if the first string ends with the second string	Version 2.0 or later, standard edition only

ENDS[WITH]%(string1\$,string2\$)	-1 (true) if the first string ends with the second string	Version 2.0 or later, standard edition only
EOF(file%)	-1 (true) if the open file is at the end, otherwise 0 (false)	
EOF([#]file%)	-1 (true) if the open file is at the end, otherwise 0 (false)	Version 2.0 or later, all editions
EOF%([#]file%)	-1 (true) if the open file is at the end, otherwise 0 (false)	Version 2.0 or later, all editions
EPS(number#)	Epsilon	Version 1.0 or later, all editions
ERL	Number of the program line where the last error occurred	
ERL%	Number of the program line where the last error occurred	Version 2.0 or later, all editions
ERLIN	Number of the program line where the last error occurred	Version 1.5 or later, all editions
ERLIN%	Number of the program line where the last error occurred	Version 2.0 or later, all editions
ERN	Error number of the last error to occur	
ERN%	Error number of the last error to occur	Version 2.0 or later, all editions
ERNO	Error number of the last error to occur	Version 1.5 or later, all editions
ERNO%	Error number of the last error to occur	Version 2.0 or later, all editions
ERR	Error number of the last error to occur	
ERR\$(error%)	Description of the error code	
ERR%	Error number of the last error to occur	Version 2.0 or later, all editions
ERT\$(error%)	Description of the error code	Version 2.0 or later, all editions
ESC\$	ESCAPE character (decimal 27, hexadecimal 1B)	
EVAL(evaluate\$)	Result of evaluating the expression	Version 1.0 or later, standard edition only
EVAL[!   #   \$   %](evaluate\$)	Result of evaluating the expression	Version 2.5 or later, standard edition only
EVEN(number%)	-1 (true) if the number is even, otherwise 0 (false)	Version 1.0 or later, standard edition only

EVEN%(number%)	-1 (true) if the number is even, otherwise 0 (false)	Version 2.0 or later, standard edition only
EXCLUDE\$(string1\$,string2\$[,ignorecase %])	Returns first string excluding characters in second string.	Version 3.0.1 or later, standard version only
EXISTS(filename\$)	-1 (true) if the file exists, otherwise 0 (false)	
EXISTS%(filename\$)	-1 (true) if the file exists, otherwise 0 (false)	Version 2.0 or later, all editions
EXP(number#)	Natural exponential of the number	
EXP10(number#)	Base 10 exponential of the number	
EXP2(number#)	Base 2 exponential of the number	
EXT([#]file%)	Length of the open file	Version 1.6 or later, all editions
EXT%([#]file%)	Length of the open file	Version 2.0 or later, all editions
EXTRACT\$(string1\$,string2\$)	Part of the first string before the first occurrence of the second string	Version 1.0 or later, standard edition only
FACT(number%)	Factorial of the number	Version 1.0 or later, standard edition only
FALSE	0 (false)	
FALSE%	0 (false)	Version 2.0 or later, all editions
FILE\$(filespec\$,control%)	The name of a file or an empty string if no matching file is found	
FILE\$([filespec\$],control%)	The name of a file or an empty string if no matching file is found	Version 2.0 or later, all editions
FILE\$([filespec\$],control%[,volume%])	The name of a file or an empty string if no matching file is found	Version 2.2 or later, all editions
FILEATTR([#]file%,attribute%)	File attribute	Version 2.6 or later, all editions
FILEDATE(filespec\$[,date%])	File date	Version 1.6 or later, standard edition only
FILEINFO\$(filespec\$)	File information	Version 1.0 or later, standard edition only
FILEINFO2\$(filespec\$[,timefield%])	File information	Version 2.5 or later, standard edition only
FILEMODE(file%)	Mode of the open file	

FILEMODE([#]file%)	Mode of the open file	Version 2.0 or later, all editions
FILEMODE\$(file%)	Mode of the open file	
FILEMODE\$([#]file%)	Mode of the open file	Version 2.0 or later, all editions
FILEMODE%([#]file%)	Mode of the open file	Version 2.0 or later, all editions
FILENAME\$(file%)	File name of the open file	
FILENAME\$([#]file%)	File name of the open file	Version 2.0 or later, all editions
FILES(filespec\$)	The number of matching files	Version 2.0 or later, all editions
FILES%(filespec\$)	The number of matching files	Version 2.0 or later, all editions
FILESIZE(filespec\$)	File size in bytes	Version 1.6 or later, standard edition only
FIND(string\$,character\$[,index%])	Position of the character within the string	Version 1.0 or later, standard edition only
FIND%(string\$,character\$[,index%])	Position of the character within the string	Version 2.0 or later, standard edition only
FINDONEOF(string1\$,string2\$)	Index of the first occurrence of any character from the second string in the first string	Version 1.0 or later, standard edition only
FINDONEOF%(string1\$,string2\$)	Index of the first occurrence of any character from the second string in the first string	Version 2.0 or later, standard edition only
FIRST\$(string\$[,length%])	Specified number of leftmost characters in the string	Version 1.6 or later, all editions
FIRSTDAY[(time#)]	First day of month of the time value	Version 2.5.6 or later, all editions
FIX(number#)	Integer or whole part of the number	
FLOOR(number#)	Floor of the number	
FLOOR%(number)	Floor of the number	Version 2.0 or later, all editions
FN function[(argumentlist)]	Result of calling the user-defined function	
FN function[#{#   !   %   \$}][(argumentlist)]	Result of calling the user-defined function	Version 2.0 or later, all editions

FONT	Current text font size	
FONT%	Current text font size	Version 2.0 or later, all editions
FORMAT\$(format\$,value[,value]...)	Formatted values	Version 2.0 or later, all editions
FP(number#)	Fractional part of the number	
FRE(value)	Amount of free memory or string space	
FREE(volume\$)	Amount of free space on the volume	
FREEFILE	Next free file number	
FREEFILE%	Next free file number	Version 2.0 or later, all editions
FULLNAME\$(filename\$[,extension\$])	Full file name of the file	
GET\$	Character input from the keyboard	
GETALNUM\$	Character input from the keyboard	Version 1.0 or later, standard edition only
GETALPHA\$	Character input from the keyboard	Version 1.0 or later, standard edition only
GETDIGIT\$	Character input from the keyboard	Version 1.0 or later, standard edition only
GETEXT\$(filename\$)	Filename extension	Version 1.6 or later, all editions
GETKEY\$(keys\$)	Character input from the keyboard	Version 1.0 or later, standard edition only
GETNAME\$(filename\$)	Filename name	Version 1.6 or later, all editions
GETVOL\$(filename\$)	Filename volume	Version 1.6 or later, all editions
GETYN\$	"Y" or "N" character input from the keyboard	Version 1.0 or later, standard edition only
HEX(character\$)	-1 (true) if the character is a hexadecimal digit, otherwise 0 (false)	
HEX\$(number%)	String representing the hexadecimal value of the number	
HEX%(character\$)	-1 (true) if the character is a hexadecimal digit, otherwise 0 (false)	Version 2.0 or later, all editions

HOUR(time#)	Hour of the time value	
HOUR%(time#)	Hour of the time value	Version 2.0 or later, all editions
HPOINT(x%,y%)	Color of the graphics pixel	Version 1.5 or later, standard edition only
HPOINT%(x%,y%)	Color of the graphics pixel	Version 2.0 or later, standard edition only
HPOS	Column position of the cursor	Version 1.6 or later, all editions
HPOS%	Column position of the cursor	Version 2.0 or later, all editions
HYPOT(a#,b#)	Hypotenuse of the specified right triangle	
HYPOT!(a!,b1)	Hypotenuse of the specified right triangle	Version 2.0 or later, all editions
HYPOT#(a#,b#)	Hypotenuse of the specified right triangle	Version 2.0 or later, all editions
IIF(condition%,number1#,number2#)	First number if condition is true, otherwise second number	Version 1.0 or later, standard edition only
IIF!(condition%,number1!,number2!)	First number if condition is true, otherwise second number	Version 2.0 or later, standard edition only
IIF#(condition%,number1#,number2#)	First number if condition is true, otherwise second number	Version 2.0 or later, standard edition only
IIF\$(condition%,string1\$,string2\$)	First string if condition is true, otherwise second string	Version 1.0 or later, standard edition only
IIF%(condition%,number1%,number2%)	First number if condition is true, otherwise second number	Version 2.0 or later, standard edition only
INALNUM\$	String corresponding to a key press	Version 1.6 or later, standard edition only
INALPHA\$	String corresponding to a key press	Version 1.6 or later, standard edition only
INCLUDE\$(string1\$,string2\$[,ignorecase %])	Returns first string including only characters in second string.	Version 3.0.1 or later, standard version only
INDEXOF([start%,]string1\$,string2\$)	Position of the first occurrence of the second string within the first string	Version 1.5.2 or later, all editions
INDEXOF%([start%,]string1\$,string2\$)	Position of the first occurrence of the second string within the first string	Version 2.0 or later, all editions
INDIGIT\$	String corresponding to a key press	Version 1.6 or later, standard edition only
INKEY\$	String corresponding to a key press	

INPUT\$(length%[,file%])	String input from the keyboard or a file	
INPUT\$(length%[,[#]file%)	String input from the keyboard or a file	Version 2.0 or later, all editions
INPUTAT\$(row%,column%,length%)	String input from the keyboard	Version 1.6 or later, all editions
INSERT\$(string1\$,index%,string2\$)	First string with second string inserted at the specified index	Version 1.0 or later, standard edition only
INSTR([start%,]string1\$,string2\$)	Position of the first occurrence of the second string within the first string	
INSTR%([start%,]string1\$,string2\$)	Position of the first occurrence of the second string within the first string	Version 2.0 or later, all editions
INSTRREV(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	
INSTRREV%(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	Version 2.0 or later, all editions
INT(number#)	Floor of the number	
INT%(number)	Floor of the number	Version 2.0 or later, all editions
INV(number#)	Inverse of the number	
INV!(number!)	Inverse of the number	Version 2.0 or later, all editions
INV#(number#)	Inverse of the number	Version 2.0 or later, all editions
INYNS\$	String corresponding to a key press	Version 1.0 or later, standard edition only
IP(number#)	Integer or whole part of the number	
IS0(number1#,number2#)	First number if not 0, otherwise second number	Version 1.1 or later, all editions
IS0!(number1!,number2!)	First number if not 0, otherwise second number	Version 2.0 or later, all editions
IS0#(number1#,number2#)	First number if not 0, otherwise second number	Version 2.0 or later, all editions
IS0%(number1%,number2%)	First number if not 0, otherwise second number	Version 2.0 or later, all editions
ISDBL(string\$)	-1 (true) if the string is a valid double-precision number, otherwise 0 (false)	Version 2.0 or later, all editions

ISDBL%(string\$)	-1 (true) if the string is a valid double-precision number, otherwise 0 (false)	Version 2.0 or later, all editions
ISEMPTY\$(string1\$,string2\$)	First string if not empty, otherwise second string	Version 1.1 or later, all editions
ISEQ(number1#,number2#,number3#)	First number if not equal to second number, otherwise third number	Version 2.7 or later, all editions
ISEQ!(number1!,number2!,number3!)	First number if not equal to second number, otherwise third number	Version 2.7 or later, all editions
ISEQ#(number1#,number2#,number3#)	First number if not equal to second number, otherwise third number	Version 2.7 or later, all editions
ISEQ\$(string1\$,string2\$,string3\$ [,ignorecase%])	First string if not equal to second string, otherwise third string	Version 2.7 or later, all editions
ISEQ%(number1%,number2%,number3%)	First number if not equal to second number, otherwise third number	Version 2.7 or later, all editions
ISGE(number1#,number2#,number3#)	First number if not greater than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISGE!(number1!,number2!,number3!)	First number if not greater than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISGE#(number1#,number2#,number3#)	First number if not greater than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISGE\$(string1\$,string2\$[, [string3\$] [,ignorecase%]])	First string if not greater than or equal to second string, otherwise third string	Version 2.5.6 or later, all editions
ISGE%(number1%,number2%,number3%)	First number if not greater than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISGT(number1#,number2#)	First number if not greater than second number, otherwise second number	Version 2.5.6 or later, all editions
ISGT(number1#,number2#,number3#)	First number if not greater than second number, otherwise third number	Version 2.5.5 or later, all editions
ISGT!(number1!,number2!)	First number if not greater than second number, otherwise second number	Version 2.5.6 or later, all editions
ISGT!(number1!,number2!,number3!)	First number if not greater than second number, otherwise third number	Version 2.5.5 or later, all editions



ISGT#(number1#,number2#)	First number if not greater than second number, otherwise second number	Version 2.5.6 or later, all editions
ISGT#(number1#,number2#,number3#)	First number if not greater than second number, otherwise third number	Version 2.5.5 or later, all editions
ISGT\$(string1\$,string2\$[,string3\$[,ignorecase%]])	First string if not greater than second string, otherwise third string	Version 2.5.6 or later, all editions
ISGT%(number1%,number2%)	First number if not greater than second number, otherwise second number	Version 2.5.6 or later, all editions
ISGT%(number1%,number2%,number3%)	First number if not greater than second number, otherwise third number	Version 2.5.5 or later, all editions
ISINT(string\$)	-1 (true) if the string is a valid integer number, otherwise 0 (false)	Version 2.0 or later, all editions
ISINT%(string\$)	-1 (true) if the string is a valid integer number, otherwise 0 (false)	Version 2.0 or later, all editions
ISLE(number1#,number2#,number3#)	First number if not less than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISLE!(number1!,number2!,number3!)	First number if not less than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISLE#(number1#,number2#,number3#)	First number if not less than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISLE\$(string1\$,string2\$[,string3\$[,ignorecase%]])	First string if not less than or equal to second string, otherwise third string	Version 2.5.6 or later, all editions
ISLE%(number1%,number2%,number3%)	First number if not less than or equal to second number, otherwise third number	Version 2.5.5 or later, all editions
ISLT(number1#,number2#)	First number if not less than second number, otherwise second number	Version 2.5.6 or later, all editions
ISLT(number1#,number2#,number3#)	First number if not less than second number, otherwise third number	Version 2.5.5 or later, all editions
ISLT!(number1!,number2!)	First number if not less than second number, otherwise second number	Version 2.5.6 or later, all editions
ISLT!(number1!,number2!,number3!)	First number if not less than second number, otherwise third number	Version 2.5.5 or later, all editions
ISLT#(number1#,number2#)	First number if not less than second number, otherwise second number	Version 2.5.6 or later, all editions

ISLT#(number1#,number2#,number3#)	First number if not less than second number, otherwise third number	Version 2.5.5 or later, all editions
ISLT\$(string1\$,string2\$[,string3\$ [,ignorecase%]])	First string if not less than second string, otherwise third string	Version 2.5.6 or later, all editions
ISLT%(number1%,number2%)	First number if not less than second number, otherwise second number	Version 2.5.6 or later, all editions
ISLT%(number1%,number2%,number3%)	First number if not less than second number, otherwise third number	Version 2.5.5 or later, all editions
ISNE(number1#,number2#,number3#)	First number if equal to second number, otherwise third number	Version 2.7 or later, all editions
ISNE(number1#,number2#)	First number if equal to second number, otherwise second number	Version 2.7 or later, all editions
ISNE!(number1!,number2!,number3!)	First number if equal to second number, otherwise third number	Version 2.7 or later, all editions
ISNE!(number1!,number2!)	First number if equal to second number, otherwise second number	Version 2.7 or later, all editions
ISNE#(number1#,number2#,number3#)	First number if equal to second number, otherwise third number	Version 2.7 or later, all editions
ISNE#(number1#,number2#)	First number if equal to second number, otherwise second number	Version 2.7 or later, all editions
ISNE\$(string1\$,string2\$[,string3\$ [,ignorecase%]])	First string if equal to second string, otherwise third string	Version 2.7 or later, all editions
ISNE%(number1%,number2%,number3%)	First number if equal to second number, otherwise third number	Version 2.7 or later, all editions
ISNEG(number1#,number2#)	First number if not negative, otherwise second number	Version 1.2 or later, all editions
ISNEG!(number1!,number2!)	First number if not negative, otherwise second number	Version 2.0 or later, all editions
ISNEG#(number1#,number2#)	First number if not negative, otherwise second number	Version 2.0 or later, all editions
ISNEG%(number1%,number2%)	First number if not negative, otherwise second number	Version 2.0 or later, all editions
ISNUM(string\$)	-1 (true) if the string is a valid number, otherwise 0 (false)	Version 1.6 or later, all editions
ISNUM%(string\$)	-1 (true) if the string is a valid number, otherwise 0 (false)	Version 2.0 or later, all editions
ISONEOF(match,value[,value]...)	Index of first matching value, otherwise 0	Version 2.1 or later, standard edition only
ISONEOF%(match,value[,value]...)	Index of first matching value, otherwise 0	Version 2.1 or later, standard edition only

ISPOS(number1#,number2#)	First number if not positive, otherwise second number	Version 1.2 or later, all editions
ISPOS!(number1!,number2!)	First number if not positive, otherwise second number	Version 2.0 or later, all editions
ISPOS#(number1#,number2#)	First number if not positive, otherwise second number	Version 2.0 or later, all editions
ISPOS%(number1%,number2%)	First number if not positive, otherwise second number	Version 2.0 or later, all editions
ISSNG(string\$)	-1 (true) if the string is a valid single-precision number, otherwise 0 (false)	Version 2.0 or later, all editions
ISSNG%(string\$)	-1 (true) if the string is a valid single-precision number, otherwise 0 (false)	Version 2.0 or later, all editions
ISUTF8(string\$)	-1 (true) if the string contains 1 or more UTF8 sequences, otherwise 0 (false)	Version 3.0 or later, standard edition only
ISUTF8%(string\$)	-1 (true) if the string contains 1 or more UTF8 sequences, otherwise 0 (false)	Version 3.0 or later, standard edition only
JOIN\$(array[,separator\$][,[start%][,end%]]])	Join string array into string	Version 2.3 or later, standard edition only
JOYSTK(position%)	Current position of the joystick	Version 2.0 or later, all editions
JOYSTK%(position%)	Current position of the joystick	Version 2.0 or later, all editions
LAST\$(string\$[,length%])	String with the specified number of rightmost characters from the string	Version 1.6 or later, all editions
LASTDAY[(time#)]	Last day of month of the time value	Version 2.5.6 or later, all editions
LASTINDEXOF(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	Version 1.5.2 or later, all editions
LASTINDEXOF%(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	Version 2.0 or later, all editions
LBOUND(array[,dimension%])	Lower bound (index) of the dimension in the array variable	Version 1.2 or later, all editions
LBOUND%(array[,dimension%])	Lower bound (index) of the dimension in the array variable	Version 2.0 or later, all editions
LCASE\$(string\$)	String converted to lower case	

LEAPYEAR(year%)	-1 (true) if the year is a leap year, otherwise 0 (false)	
LEAPYEAR%(year%)	-1 (true) if the year is a leap year, otherwise 0 (false)	Version 2.0 or later, all editions
LEFT\$(string\$,length%)	Specified number of leftmost characters in the string	
LEN(string\$)	Length of the string	
LEN%(string\$)	Length of the string	Version 2.0 or later, all editions
LOC(file%)	Location of the file pointer of the open file	
LOC([#]file%)	Location of the file pointer of the open file	Version 2.0 or later, all editions
LOC%([#]file%)	Location of the file pointer of the open file	Version 2.0 or later, all editions
LOF(file%)	Length of the open file	
LOF([#]file%)	Length of the open file	Version 2.0 or later, all editions
LOF%([#]file%)	Length of the open file	Version 2.0 or later, all editions
LOG(number#)	Natural logarithm of the number	
LOG\$	File name of the log file if open	Version 1.0 or later, standard edition only
LOG10(number#)	Base 10 logarithm of the number	
LOG2(number#)	Base 2 logarithm of the number	
LOWER(character\$)	-1 (true) if the character is lowercase, otherwise 0 (false)	
LOWER\$(string\$)	String converted to lower case	
LOWER%(character\$)	-1 (true) if the character is lowercase, otherwise 0 (false)	Version 2.0 or later, all editions
LPAD\$(string\$,length%[,pad\$])	String padded on the left	Version 1.0 or later, standard edition only
LPOS	Current print position	Version 1.1 or later, standard edition only
LPOS%	Current print position	Version 2.0 or later, standard edition only

LSET\$(string\$,length%[,pad\$])	Left justified string	Version 1.4 or later, standard edition only
LTRIM\$(string\$)	String with spaces or the specified character trimmed from the left of the string	
LTRIM\$(string\$[,character\$])	String with spaces or the specified character trimmed from the left of the string	Version 1.4 or later, all editions
MAG(number)	Magnitude of the number	Version 2.0 or later, all editions
MAKENAME\$([volume\$],name\$[, [extension\$][,replace%]])	Filename	Version 1.0 or later, standard edition only
MAPPED(volume\$)	-1 (true) if the volume is mapped (exists), otherwise 0 (false)	
MAPPED%(volume\$)	-1 (true) if the volume is mapped (exists), otherwise 0 (false)	Version 2.0 or later, all editions
MATCH([start%],string1\$,string2\$)	Position of the first occurrence of the second string within the first string	Version 1.5 or later, all editions
MATCH%([start%],string1\$,string2\$)	Position of the first occurrence of the second string within the first string	Version 2.0 or later, all editions
MATCHREV(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	Version 2.0 or later, all editions
MATCHREV%(string1\$,string2\$[,start%])	Position of the last occurrence of the second within the first string	Version 2.0 or later, all editions
MAX(number1#,number2#)	Maximum of two or more numbers	
MAX(number#,number#[,number#]...)	Maximum of two or more numbers	Version 1.4 or later, all editions
MAX!(number!,number![,number!]...)	Maximum of two or more numbers	Version 2.0 or later, all editions
MAX#(number#,number#[,number#]...)	Maximum of two or more numbers	Version 2.0 or later, all editions
MAX\$(string\$,string\$[,string\$]...)	Maximum of two or more strings	Version 2.0 or later, all editions
MAX%(number%,number%[,number%]...)	Maximum of two or more numbers	Version 2.0 or later, all editions
MAXDBL	Largest finite positive double-precision number	Version 2.0 or later, all editions
MAXDBL#	Largest finite positive double-precision number	Version 2.0 or later, all editions
MAXINT	Largest finite positive integer number	Version 2.0 or later, all editions

MAXINT%	Largest finite positive integer number	Version 2.0 or later, all editions
MAXLEN(variable)	Maximum length of the string variable	
MAXLEN%(variable)	Maximum length of the string variable	Version 2.0 or later, all editions
MAXNUM	Largest finite positive number	
MAXSIZE(array)	Total number of elements of all dimensions in the array variable	Version 1.2 or later, all editions
MAXSIZE%(array)	Total number of elements of all dimensions in the array variable	Version 2.0 or later, all editions
MAXSNG	Largest finite positive single-precision number	Version 2.0 or later, all editions
MAXSNG!	Largest finite positive single-precision number	Version 2.0 or later, all editions
MEM	Amount of free memory	
MID\$(string\$,index%[,length%])	Specified number of characters in the string beginning at index	
MIDN(time#)	Midnight of the time value	Version 2.3 or later, all editions
MIN(number1#,number2#)	Minimum of two or more numbers	
MIN(number#,number#[,number#]...)	Minimum of two or more numbers	Version 1.4 or later, all editions
MIN!(number!,number![,number!]...)	Minimum of two or more numbers	Version 2.0 or later, all editions
MIN#(number#,number#[,number#]...)	Minimum of two or more numbers	Version 2.0 or later, all editions
MIN\$(string\$,string\$[,string\$]...)	Minimum of two or more strings	Version 2.0 or later, all editions
MIN%(number%,number#[,number%]...)	Minimum of two or more numbers	Version 2.0 or later, all editions
MINDBL	Smallest finite negative double-precision number	Version 2.0 or later, all editions
MINDBL#	Smallest finite negative double-precision number	Version 2.0 or later, all editions
MININT	Smallest finite negative integer number	Version 2.0 or later, all editions
MININT%	Smallest finite negative integer number	Version 2.0 or later, all editions

MINNUM	Smallest finite negative number	
MINSNG	Smallest finite negative single-precision number	Version 2.0 or later, all editions
MINSNG!	Smallest finite negative single-precision number	Version 2.0 or later, all editions
MINUTE(time#)	Minute of the time value	
MINUTE%(time#)	Minute of the time value	Version 2.0 or later, all editions
MIX\$(string1\$,string2\$[,count%])	Mixed strings	Version 1.0 or later, standard edition only
MKD\$(number#)	Number converted to a binary string	Version 2.0 or later, all editions
MKI\$(number%)	Number converted to a binary string	Version 2.0 or later, all editions
MKI1\$(number%)	Number converted to a binary string	Version 2.8.5 or later, all editions
MKI2\$(number%)	Number converted to a binary string	Version 2.8.5 or later, all editions
MKI4\$(number%)	Number converted to a binary string	Version 2.8.5 or later, all editions
MKKEY\$(key\$[,control%][,shift%])	String representing the key	
MKN\$(number#)	Number converted to a binary string	
MKS\$(number!)	Number converted to a binary string	Version 2.0 or later, all editions
MKTIME(year%,month%,day%[,hour% [,minute%[,second%]])	Time value	
MOD(number1#,number2#)	Modulus of the two numbers	
MOD!(number1!,number2!)	Modulus of the two numbers	Version 2.0 or later, all editions
MOD#(number1#,number2#)	Modulus of the two numbers	Version 2.0 or later, all editions
MOD%(number1%,number2%)	Modulus of the two numbers	Version 2.0 or later, all editions
MONTH(time#)	Month of the time value	
MONTH%(time#)	Month of the time value	Version 2.0 or later, all editions

MONTHNAME\$(month%[,format%])	Month name from the time value	
NOS\$(number%[,append%])	Number converted to string with ordinal suffix appended	Version 2.0 or later, all editions
NOW	Current time value	
NUL\$	NULL character (decimal 0)	
NUM\$(number)	String representing the decimal value of the number	Version 2.0 or later, all editions
NUM1\$(number)	String representing the decimal value of the number	Version 2.0 or later, all editions
OCT\$(number%)	String representing the octal value of the number	
ODD(number%)	-1 (true) if the number is odd, otherwise 0 (false)	Version 1.0 or later, standard edition only
ODD%(number%)	-1 (true) if the number is odd, otherwise 0 (false)	Version 2.0 or later, standard edition only
OPEN(file%)	-1 (true) if the file or printer is open, otherwise (0) false	
OPEN([#]file%)	-1 (true) if the file or printer is open, otherwise (0) false	Version 2.0 or later, all editions
OPEN%([#]file%)	-1 (true) if the file or printer is open, otherwise (0) false	Version 2.0 or later, all editions
OPENIN(filename\$)   OPENIN filename\$	File number of open file	Version 1.6 or later, all editions
OPENIN%(filename\$)   OPENIN% filename\$	File number of open file	Version 2.0 or later, all editions
OPENOUT(filename\$)   OPENOUT filename\$	File number of open file	Version 1.6 or later, all editions
OPENOUT%(filename\$)   OPENOUT% filename\$	File number of open file	Version 2.0 or later, all editions
ORD(character\$)	Ordinal value of the character	
ORD%(character\$)	Ordinal value of the character	Version 2.0 or later, all editions
PAD\$(string\$,[leftpad%],[leftchar\$],[rightpad%],[rightchar\$])	Pad string	Version 2.2 or later, standard edition only



PADC\$(string\$,width%[,leftchar\$[,rightchar\$]])	Pad center string	Version 2.2 or later, standard edition only
PADL\$(string\$,width%,leftpad%[,leftchar\$[,rightchar\$]])	Pad left string	Version 2.2 or later, standard edition only
PADR\$(string\$,width%,rightpad%[,rightchar\$[,leftchar\$]])	Pad right string	Version 2.2 or later, standard edition only
PALETTE	Returns current color palette	Version 3.0 or later, standard edition only
PALETTE%	Returns current color palette	Version 3.0 or later, standard edition only
PAUSEKEY\$[(duration%)]	String value of the key pressed	Version 1.6 or later, standard edition only
PCOL(column%)	Graphics coordinate of the text column	Version 1.5.2 or later, standard edition only
PCOL%(column%)	Graphics coordinate of the text column	Version 2.0 or later, standard edition only
PEEK(address%)	Value at the memory location	
PEEK%(address%)	Value at the memory location	Version 2.0 or later, all editions
PERM(n%,k%)	Number of permutations	
PFONT	Current graphics font size	Version 1.0 or later, standard edition only
PFONT%	Current graphics font size	Version 2.0 or later, standard edition only
PI	Pi ( $\pi$ )	
POINT(row%,column%)	Color of the text character	
POINT%(row%,column%)	Color of the text character	Version 2.0 or later, all editions
POS[(position%)]	Current position of the cursor	
POS%[(position%)]	Current position of the cursor	Version 2.0 or later, all editions
PPOINT(x%,y%)	Color of the graphics pixel	Version 1.0 or later, standard edition only
PPOINT%(x%,y%)	Color of the graphics pixel	Version 2.0 or later, standard edition only

PPOS[(location%)]	Current graphics location	Version 2.7 or later, standard edition only
PPOS%[(location%)]	Current graphics location	Version 2.7 or later, standard edition only
PRINT(character\$)	-1 (true) if the character is a printable character, otherwise 0 (false)	
PRINT%(character\$)	-1 (true) if the character is a printable character, otherwise 0 (false)	Version 2.0 or later, all editions
PRINTER\$	Name of the current printer	Version 1.1 or later, standard edition only
PRNDX	Random x coordinate from 0 to graphics screen width - 1	Version 2.0 or later, standard edition only
PRNDX%	Random x coordinate from 0 to graphics screen width - 1	Version 2.0 or later, standard edition only
PRNDY	Random y coordinate from 0 to graphics screen height - 1	Version 2.0 or later, standard edition only
PRNDY%	Random y coordinate from 0 to graphics screen height - 1	Version 2.0 or later, standard edition only
PROMPT\$	Prompt	Version 1.0 or later, standard edition only
PROPER\$(string\$)	Capitalized string	Version 1.0 or later, standard edition only
PROW(row%)	Graphics coordinate of the text row	Version 1.0 or later, standard edition only
PROW%(row%)	Graphics coordinate of the text row	Version 2.0 or later, standard edition only
PSCREEN[(screen%)]	Graphics buffer information	Version 2.0 or later, standard edition only
PSCREEN%[(screen%)]	Graphics buffer information	Version 2.0 or later, standard edition only
PSCRH	Height (pixels) of the graphics screen	Version 1.0 or later, standard edition only
PSCRH%	Height (pixels) of the graphics screen	Version 2.0 or later, standard edition only
PSCRW	Width (pixels) of the graphics screen	Version 1.0 or later, standard edition only
PSCRW%	Width (pixels) of the graphics screen	Version 2.0 or later, standard edition only
QUOTE\$(string\$,quotes\$)	Quoted string	
RAD(degrees#)	Degrees converted to radians	

RCP(number#)	Inverse of the number	
RCP!(number!)	Inverse of the number	Version 2.0 or later, all editions
RCP#(number#)	Inverse of the number	Version 2.0 or later, all editions
READONLY(volume\$)	-1 (true) if the volume is read-only, otherwise 0 (false)	
READONLY%(volume\$)	-1 (true) if the volume is read-only, otherwise 0 (false)	Version 2.0 or later, all editions
REC(file%)	Number of records in the open random access file	
REC([#]file%)	Number of records in the open random access file	Version 2.0 or later, all editions
REC%([#]file%)	Number of records in the open random access file	Version 2.0 or later, all editions
REDUCE\$(string\$[,ignorecase%])	Returns a string with duplicate characters removed	Version 3.0.1 or later, standard edition only
REMAIN\$(string1\$,string2\$)	Part of the first string after the first occurrence of the second string	Version 1.0 or later, standard edition only
REMAINDER(number1#,number2#)	Remainder of dividing the first number by the second number	
REMOVE\$(string1\$,string2\$)	String with each occurrence of the second string removed from the first string	Version 1.0 or later, standard edition only
REPEAT\$(string\$,repeat%)	String repeated the specified number of times	
REPLACE\$(string1\$,index%,string2\$)	String with the specified part replaced with second string	Version 1.0 or later, standard edition only
REPLACENAME\$(filename\$,part%,replacement\$)	File name with part replaced	Version 1.6 or later, standard edition only
REPL[ACE]NAME\$(filename\$,part%,replacement\$)	File name with part replaced	Version 3.0.5 or later, standard edition only
REPL[ACE]NAME2\$(filename\$,[volume\$][,[name\$][,ext\$]])	File name with parts replaced	Version 3.0.5 or later, standard edition only
REPORT\$(error%)	Description of the error code	Version 1.6 or later, all editions
RET\$	CARRIAGE RETURN character (decimal 13)	

REVERSE\$(string\$)	String with characters reversed	
RFIND(string\$,character\$[,index%])	Last position of the character within the string	Version 1.0 or later, standard edition only
RFIND%(string\$,character\$[,index%])	Last position of the character within the string	Version 2.0 or later, standard edition only
RIGHT\$(string\$[,length%])	String with the specified number of rightmost characters from the string	
REMOVED\$(string\$)	String with all UTF8 sequences removed	Version 3.0 or later, standard edition only
RND(number%)	Random number	
RND\$(string\$)	Random character from string	Version 1.6 or later, all editions
RND%(number%)	Random number	Version 2.0 or later, all editions
RNDC[(color%)]	Random color	Version 2.2 or later, all editions
RNDC%[(color%)]	Random color	Version 2.2 or later, all editions
ROMAN\$(number%)	String containing the number represented in roman numerals	Version 1.0 or later, standard edition only
ROUND(number#,digits%)	Number rounded to the specified digits	
ROW	Row position of the cursor	
ROW%	Row position of the cursor	Version 2.0 or later, all editions
RPAD\$(string\$,length%[,pad\$])	String padded on the right	Version 1.0 or later, standard edition only
RPLBEG\$(string1\$,string2\$,string3\$)	String with beginning replaced	Version 2.1 or later, standard edition only
RPLEND\$(string1\$,string2\$,string3\$)	String with ending replaced	Version 2.1 or later, standard edition only
RPLSTR\$(string1\$,string2\$,string3\$)	String with each occurrence of the second string within the first string replaced with the third string	Version 2.1 or later, standard edition only
RPLUTF8\$(string\$[,char\$])	String with all UTF8 sequences replaced with character	Version 3.0.1 or later, standard edition only
RPT\$(string\$,repeat%)	String repeated the specified number of times	Version 2.0 or later, all editions
RSEARCH(array,value[,start%][,end%]])	Index of last value in array or -1 if not found	Version 2.0 or later, standard edition only

RSEARCH%(array,value[,start%][,end%])	Index of last value in array or -1 if not found	Version 2.0 or later, standard edition only
RSET\$(string\$,length%[,pad\$])	Right justified string	Version 1.4 or later, standard edition only
RTD(radians#)	Radians converted to degrees	
RTRIM\$(string\$)	String with spaces trimmed from the right	
RTRIM\$(string\$[,character\$])	String with spaces trimmed from the right	Version 1.4 or later, all editions
SADD(variable)	Address of the string variable	Version 1.5 or later, all editions
SADD%(variable)	Address of the string variable	Version 2.0 or later, all editions
SCRCHK(screen\$)	Verifies a screen data string	Version 2.7 or later, all editions
SCRCHK%(screen\$)	Verifies a screen data string	Version 2.7 or later, all editions
SCR CUT\$(screen\$,[row%],[column %],[width%,height%])	Gets subset of a screen data string	Version 2.7 or later, all editions
SCREEN\$	String of text screen characters	Version 2.0 or later, standard edition only
SCREXT\$(screen\$)	Extracts characters from a screen data string	Version 2.7 or later, all editions
SCRGET\$(row%,column%,width%,height %)	Gets a screen data string	Version 2.7 or later, all editions
SCRH	Height (rows) of the screen	
SCRH%	Height (rows) of the screen	Version 2.0 or later, all editions
SCRMAK\$(characters\$,width%,height%[, foreground%][,background%])	Creates a screen data string	Version 2.7 or later, all editions
SCRN(row%,column%)	Color of the text character	Version 1.4 or later, all editions
SCRN%(row%,column%)	Color of the text character	Version 2.0 or later, all editions
SCRREV\$(screen\$)	Reverses the colors in a screen data string	Version 2.7 or later, all editions

SCRSET\$(screen\$[,foreground%] [,background%])	Sets the colors in a screen data string	Version 2.7 or later, all editions
SCRW	Width (columns) of the screen	
SCRW%	Width (columns) of the screen	Version 2.0 or later, all editions
SEARCH(array,value[,start%][,end%])	Index of first matching value in array or -1 if not found	Version 2.0 or later, standard edition only
SEARCH%(array,value[,start%][,end%])	Index of first matching value in array or -1 if not found	Version 2.0 or later, standard edition only
SEC(angle#)	Secant of the angle	
SECOND(time#)	Second of the time value	
SECOND%(time#)	Second of the time value	Version 2.0 or later, all editions
SEG\$(string\$,index%[,length%])	Part of the string	Version 1.4 or later, all editions
SELECT(charset%)	Changes the character set	Version 1.3 to 1.6, 3.0 or later, all editions
SELECT%(charset%)	Changes the character set	Version 3.0 or later, all editions
SET\$(string1\$,string2\$)	String with all characters set to the specified character	
SGN(number#)	Sign of the number	
SGN!(number)	Sign of the number	Version 2.0 or later, all editions
SGN#(number)	Sign of the number	Version 2.0 or later, all editions
SGN%(number)	Sign of the number	Version 2.0 or later, all editions
SHIFT\$	SHIFT key	Version 1.2 or later, all editions
SIG(number)	Sign of the number	Version 1.6 or later, all editions
SIG!(number)	Sign of the number	Version 2.0 or later, all editions
SIG#(number)	Sign of the number	Version 2.0 or later, all editions
SIG%(number)	Sign of the number	Version 2.0 or later, all editions

SIN(angle#)	Sine of the angle	
SINH(angle#)	Hyperbolic sine of the number	
SIZE(array[,dimension%])	Number of elements in the specified dimension in the array variable	Version 1.2 or later, all editions
SIZE%(array[,dimension%])	Number of elements in the specified dimension in the array variable	Version 2.0 or later, all editions
SKIP\$(string\$[,count%])	String after skipping specified number of characters at beginning	Version 3.0 or later, all editions
SKIP\$(string\$[,count%   chars\$])	String after skipping specified number of characters or any specified characters at beginning	Version 3.0.1 or later, all editions
SPACE\$(spaces%)	String containing the specified number of spaces	
SPAN(string1\$,string2\$)	Length of the substring beginning the first string containing characters in the second string	Version 1.0 or later, standard edition only
SPAN%(string1\$,string2\$)	Length of the substring beginning the first string containing characters in the second string	Version 2.0 or later, standard edition only
SPLIT(array,string[,separator\$][,start%[,end%]])	Split string into string array	Version 2.3 or later, standard edition only
SPLIT%(array,string[,separator\$][,start%[,end%]])	Split string into string array	Version 2.3 or later, standard edition only
SPLITNAME\$(filename\$[,part%])	Specified part of the file name	Version 1.1 or later, all editions
SPRITE\$(x%,y%,width%,height%)	String containing image data	Version 1.6 or later, standard edition only
SPRITE2\$(x1%,y1%,x2%,y2%)	String containing image data	Version 1.6 or later, standard edition only
SQR(number#)	Square root of the number	
SQRT(number#)	Square root of the number	
SQUEEZE\$(string\$)	String with spaces trimmed from the left and right and duplicate spaces compressed to a single space	Version 1.4 or later, all editions
STR\$(number)	String representing the decimal value of the number	

STR2\$(number)	String representing the decimal value of the number	Version 2.8.5 or later, all editions
STRING\$(character\$,length%)	String with the specified number of characters	
STRING\$(number%,length%)	String with the specified number of characters	Version 2.6 or later, all editions
STRING2\$(length%,{character\$   number %})	String with the specified number of characters	Version 2.8.5 or later, all editions
SUBSTR\$(string\$,index%[,length%])	Specified number of characters in the string beginning at index	Version 1.6 or later, all editions
SUBSTRING\$(string\$,start%[,end%])	String of characters beginning at start% and ending at end%	Version 1.6 or later, all editions
SWITCH(condition%,number#[,condition %[,number#]...)	Number after the first condition that evaluates to true	Version 1.0 or later, standard edition only
SWITCH!(condition%,number![,condition %[,number!]...)	Number after the first condition that evaluates to true	Version 2.0 or later, standard edition only
SWITCH#(condition%,number#[,condition %[,number#]...)	Number after the first condition that evaluates to true	Version 2.0 or later, standard edition only
SWITCH\$(condition%,string\$[,condition %[,string\$]...)	Selects a string	Version 1.0 or later, standard edition only
SWITCH%(condition%,number% [,condition%,number%]...)	Number after the first condition that evaluates to true	Version 2.0 or later, standard edition only
SYMBOL(character\$)	-1 (true) if the character is a symbol character, otherwise 0 (false)	Version 2.0 or later, all editions
SYMBOL%(character\$)	-1 (true) if the character is a symbol character, otherwise 0 (false)	Version 2.0 or later, all editions
TAN(angle#)	Tangent of the angle	
TANH(angle#)	Hyperbolic tangent of the angle	
TEMPNAME\$(volume\$[,extension\$])	Unique temporary file name for the specified volume	
TIME	Number of seconds since midnight of the current day	
TIME\$[(time#)]	Formatted time value in the form HH:MM:SS	



TIME%	Number of seconds since midnight of the current day	Version 2.0 or later, all editions
TIME2\$[(time#)]	Formatted time value in the form HH:MM:SS *M	Version 2.0 or later, all editions
TIME3\$[(time#)]	Formatted time value in the form H:MM*M	Version 2.0 or later, all editions
TIME4\$[(time#)]	Formatted time value in the form HH:MM:SS.SS	Version 2.0 or later, all editions
TIMER	Current timer value	
TIMER!	Current timer value	Version 2.0 or later, all editions
TIMER#	Current timer value	Version 2.0 or later, all editions
TRANSLATE\$(string1\$,string2\$,string3\$)	String with translated characters	Version 2.0 or later, all editions
TRIM\$(string\$)	String with characters trimmed from the left and right	
TRIM\$(string\$[,character\$])	String with characters trimmed from the left and right	Version 1.4 or later, all editions
TRM\$(string\$)	String with spaces and tabs trimmed from the end	Version 2.0 or later, all editions
TRUE	-1 (true)	
TRUE%	-1 (true)	Version 2.0 or later, all editions
TRUNCATE(number#,digits%)	Number truncated to the specified digits	
TRUN[CATE](number#,digits%)	Number truncated to the specified digits	Version 2.0 or later, all editions
TWOPI	2 * Pi ( $\pi$ )	
UBOUND(array[,dimension%])	Upper bound (index) of the specified dimension in the array variable	Version 1.2 or later, all editions
UBOUND%(array[,dimension%])	Upper bound (index) of the specified dimension in the array variable	Version 2.0 or later, all editions
UCASE\$(string\$)	String converted to upper case	
UNCLOSE\$(string\$[,characters\$])	String with specified enclosing characters removed	Version 1.6 or later, all editions
UNQUOTE\$(string\$[,quotes\$])	String with quotes removed	Version 1.6 or later, all editions

UPPER(character\$)	-1 (true) if the character is upper case, otherwise 0 (false)	
UPPER\$(string\$)	String converted to upper case	
UPPER%(character\$)	-1 (true) if the character is upper case, otherwise 0 (false)	Version 2.0 or later, all editions
USING\$(format\$,value[,value]...)	Formatted values	
USR[0-9](parameter#)	Result of calling the user function	
VAL(string\$)	Numeric value represented by the string	
VAL!(string\$)	Numeric value represented by the string	Version 2.0 or later, all editions
VAL#(string\$)	Numeric value represented by the string	Version 2.0 or later, all editions
VAL%(string\$)	Numeric value represented by the string	Version 2.0 or later, all editions
VARPTR(variable)	Address of the variable	Version 1.4 or later, all editions
VARPTR\$(variable)	Address of the variable	Version 1.4 or later, all editions
VARPTR%(variable)	Address of the variable	Version 2.0 or later, all editions
VARREF(address%)	Value of variable at address	Version 3.0 or later, all editions
VER\$	Version number information	
VERIFY(filename\$)	-1 (true) if the filename is valid, otherwise 0 (false)	
VERIFY%(filename\$)	-1 (true) if the filename is valid, otherwise 0 (false)	Version 2.0 or later, all editions
VOLINFO\$(volume\$)	Volume information	Version 1.0 or later, standard edition only
VOLUME\$[(control%)]	Volume name	
VOLUMES	Number of mapped volumes	
VOLUMES%	Number of mapped volumes	Version 2.0 or later, all editions
VPOS	Row position of the cursor	Version 1.6 or later, all editions

VPOS%	Row position of the cursor	Version 2.0 or later, all editions
WAITKEY\$	String value of the key pressed	Version 1.0 or later, standard edition only
WEEKDAY(time#)	Weekday of the time value	
WEEKDAY%(time#)	Weekday of the time value	Version 2.0 or later, all editions
XLATE\$(string1\$,string2\$)	String with translated characters	Version 1.0 or later, standard edition only
XOR(number1%,number2%)	Exclusive or of the numbers	Version 1.6 or later, all editions
XOR%(number1%,number2%)	Exclusive or of the numbers	Version 2.0 or later, all editions
YEAR(time#)	Year of the time value	
YEAR%(time#)	Year of the time value	Version 2.0 or later, all editions