Integer and Real Functions									
Func	Description	Argument(s)	Return	Example					
abs	Absolute value of any number	real/integer	← Same as	If Y = -9.2 and X := abs(Y); then X = 9.2					
round	Rounds real based on 0.5 rule	real	integer	If Y = -9.2 and X := round(Y); then X = -9					
trunc	Rounds real down to lower integer. Add1 to round up to higher integer.	real	integer	If Y = -9.2 and X := trunc(Y); then X = -10 If Y = 4.8 and X := trunc(Y) + 1; then X = 5					
sqrt	Square root	real/integer	real	If Y = 9.0 and X := sqrt(Y); then X = 3.0					
sqr	Square	real/integer	\leftarrow Same as	If Y = -9.0 and X := sqr(Y); then X = 81.0					
int	Returns the portion of real to left of point	real	real	If Y = -9.2 and X := int(Y); then X = -9.0					
frac	Returns the portion of a real to the right of a point.	real	real	If Y = -9.2 and X := frac(Y); then X = -0.2					
str	Turns an integer into a string. Stands alone.	(integer, string)	String in the argument	If Y = 10 and str(Y, S) ; then S = '10'					
val	Turns a string into an integer. Stands alone.	(string, integer)	Integer in the argument	If S = '24' and val(S, Y); then Y = 24					
randomize	Activates random number functions. Place on first line of main program. Stands alone.								
random	Generates a random integer within range.	integer	integer	If X := random(9);, then X is a random integer from zero to eight. If X := random(9) + 1;, then X is a random integer from one to nine.					

	integer t	ypes							
Type Range									
Byte	0	0255							
Shortint	-128	-128 127							
Smallint	-32768	. 32767	2						
Word	06	5535	2						
Integer	smallint of	smallint or longint							
Cardinal	long	longword							
Longint	-2147483648 2147483647								
Longword	04294967295								
Int64	-9223372036854775808 9223372036854775807								
QWord	0 18446744073709551615								
	real typ	bes							
Туре	Range	Significant digits	Bytes						
Real	platform dependent	???	4 or 8						
Single	1.5E-45 3.4E38	7-8	4						
Double	5.0E-324 1.7E308	15-16	8						
Extended	1.9E-4932 1.1E4932	19-20	10						
Comp	-2E64+1 2E63-1	19-20	8						
Currency	-922337203685477.5808	922337203685477.5807	8						

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String Functions										
Func	Description	Argument(s)	Return	Example						
lowercase	Turns all alphabetic characters in a string to lowercase.	string	string	If S = 'HaPpy' and T := lowercase(S); then T = 'happy'						
upcase	Turns all alphabetic characters in a string to uppercase.	string	string	If S = 'HaPpy' and T := upcase(S); then T = 'HAPPY'.						
str	Turns an integer into a string. Stands alone.	(integer, string)	string in the argument	If Y = 10 and str(Y, S) ; then S = '10'						
val	Turns a string into an integer. Stands alone.	(string, integer)	integer in the argument	If S = '24' and val(S, Y); then Y = 24						
length	Returns the number of characters in a string.	string	integer	If S = 'HaPpy' and X := length(S); then S = 5.						
сору	Copies a portion of a string	string, start position, number of characters to copy	string	If S = 'HaPpy' and T := copy(S, 3, 2); then T = 'Pp'						
delete	Deletes a portion of a string. Stands alone.	string, start position, number of characters to delete	string from the argument.	If S = 'HaPpy' and delete(S, 3, 2); then S = 'Hay'						
insert	Inserts one string into another. Stands alone.	providing string, receiving string, position to insert	receiving string from the argument	If S = 'HaPpy' and T = 'DaYs' and insert(T, S, 3); then S = 'HaDaYsPpy'						
concat	Appends several string onto another in order.	Comma separated strings (as few as two)	string	If S = 'HaPpy' and T = 'DaYs' and U := concat(S, ' ', T); , then U = 'HaPpy DaYs'						
	char functions									
Func	Description	Argument(s)	Return	Example						
chr	Returns the ASCII character for an ordinal.	integer	char	If X = 64 and R := chr(X); , then R = '@'						
ord	Returns an ordinal for an ASCII character.	chr	integer	If R = '@' and X := ord(R); , then X = 64						
pred	Returns the prior ASCII character in serial order.	chr	chr	If R = '@' and S := pred(R); , then S = '?'						
SUCC	Returns the next ASCII character in serial order.	chr	chr	If R = '@' and S := succ(R); , then S = 'A'						