Summary of BASIC Statement - Assumes all statements begin with a line number. LET (variable) = (expression) 10 LET X1 = Y + Z + (Z/A - B + D1) LET READ (variable), (variable) ..., (variable) 10 READ X, Y, Z, A1, Q(I,J) READ INPUT (number), (number), (number) 10 INPUT X, Y, Z, A1, Q (I,J) INPUT DATA (number), (number),... (number) 10 DATA 1,2,-3,7,123,479, -2.35E-4 - DATA PRINT < label>, or <abel> expression>, or 10">expression>10 PRINT "SINE", "X = "X(I,K),A ·B*CQS(Y) PRINT what are the relations GOTO line number 10 GOTO 17 GOTO IF (expression) (relational) (expression) THEN (line number) 10 IF X+Y >0 THEN 419 IF-THEN FOR (unsubscripted variable) = (expression) TO (expression) STEP (expression) 10 FOR I = 1 TO 17 FOR 10 FOR X1 = 0 TO 7 STEP 0.5 - NG NOOP ?) NEXT (unsubscripted variable) 10 NEXT X1 NEXT END END 10 END **STOP 10 STOP** STOP DEF FN (letter) ((unsubscripted variable) = (expression) 10 DEF FNG (Z)=1+SQR (1+Z*Z) DEF GOSUB (ine number 10 GOSUB 110 GOSUB RETURN RETURN 10 RETURN Almensia? DIM (letter) ((integer)), or (etter) ((integer), (integer)) 10 DIM A(17), B(3,20) DIM REM (any string of characters whatsoever) 10 REM THIS IS THE END OF APPENDIX C (for example) REM BASIC has available to the user the following functions: FUNCTIONS PURPOSE SIN (X) Sine of X COS (X) Cosine of X X must be in radians TAN (X) Tangent of X ATN (X) Arctangent of X Natural exponential of X, ex EXP (X) ABS (X) Absolute value of X X LOG (X) Natural logarithm of |X| SQR (X) Square root of |X| Generates a random number between zero and one at each call RND (X) INT (X) Integer part of X Error Message Interpretation DIMENSION TOO LAGRE The size of a list or table is too large for the available storage. ILLEGAL CONSTANT More than nine digits or incorrect form in a constant number. ILLEGAL FORMULA Indicates missing parentheses, illegal variable names, missing multiply signs, illegal numbers, or many other errors. ILLEGAL RELATION Something is wrong with the relational expression in an IF-THEN statement. ILLEGAL LINE NUMBER Line number is of incorrect form, or contains more than five digits. ILLEGAL INSTRUCTION : Other than one of the fifteen legal BASIC instructions has been used. ILLEGAL VARIABLE An illegal variable name has been used. INCORRECT FORMAT The format of an instruction is wrong. See especially IF-THEN's and FOR's. END IS NOT LAST Self-explanatory. NO END INSTRUCTION The program has no END statement. NO DATA There is at least one READ statement in the program, but no DATA statements. UNDEFINED FUNCTION A function such as FNF () has been used without appearing in a DEF statement. UNDEFINED NUMBER The statement number appearing in a GØ TØ or IF-THEN statement does not appear as a line number in the program. PROGRAM TOO LONG Either the program itself is too long for the available storage, or there are too many constants and printed labels. TOO MUCH DATA. : There is too much data in the program. The total length of all printed labels in the program exceeds the limit. TOO MANY LABELS TOO MANY LOOPS There are too many FOR-NEXT combinations. The upper limit is 26. An incorrect NEXT statement, perhaps with a wrong variable given. Also, check for NOT MATCH WITH FOR incorrectly nested FOR statements. FOR WITHOUT NEXT A missing NEXT statement. This message can also occur in conjunction with the previous one. SUBSCRIPT ERROR A subscript has been called for that lies outside the range specified in the DIM Occurs if a RETURN is encountered before the first GOSUB during the running of ILLEGAL RETURN

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