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=      HP 2000 PART 5 (MATRACIES)      =
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=      CAPTURED BY                      =
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=      BLITZIOD ?? & GALACTUS **        =
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=      of                              =
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=      THE ELITE HACKERS GUILD          =
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MATRICES

1. MAT ADD. & SUB.	2. MAT ASSIGNMENT	3. MAT...CON
4. MAT...IDN	5. MAT INPUT	6. MAT...INV
7. MAT MULT.	8. MAT PRINT	9. MAT PRINT#
10. MAT PRINT USING	11. MAT PRINT# USING	12. MAT READ
13. MAT READ#	14. MAT SCALAR MULT.	15. MAT...TRN
16. MAT...ZER		

ENTER YOUR CHOICE, '0' TO STOP?1

MAT ADD. & SUB.

GEN FORM: MAT ARRAY NAME = ARRAY NAME + ARRAY NAME

OR

MAT ARRAY NAME = ARRAY NAME - ARRAY NAME

MAT ADD ADDS TWO MATRICES WITH THE SAME DIMENSIONS. (EX. MAT C=A+B).
OR, IN THE CASE OF SUBTRACTION, IT SUBTRACTS TWO MATRICES
WITH THE SAME DIMENSIONS. (EX. MAT C=A-B).
NOTE: THE SAME ARRAY MAT APPEAR ON BOTH SIDES OF THE EQUAL SIGN

ENTER YOUR CHOICE, '0' TO STOP?2

MAT ASSIGNMENT STATEMENT

GEN FORM: MAT ARRAY NAME=ARRAY NAME

THIS STATEMENT IS USED TO SET ONE ARRAY EQUAL TO ANOTHER ARRAY OF THE SAME DIMENSIONS. EX. MAT A=B

ENTER YOUR CHOICE, '0' TO STOP?3

MAT....CON STATEMENT

GEN FORM: MAT ARRAY NAME=CON [NEW DIMENSIONS]

THE MAT CON STATEMENT SET ALL THE ELEMENTS OF AN ARRAY EQUAL TO ONE. (EX. MAT C=CON(5,10) , MAT D=CON)

ENTER YOUR CHOICE, '0' TO STOP?4

MAT...IDN STATEMENT

GEN FORM: MAT ARRAY NAME=IDN [NEW DIMENSIONS]

THE MAT...IDN STATEMENT SETS UP AN IDENTITY MATRIX.

MAT INPUT STATEMENT

GEN. FORM: MAT INPUT [ARRAY LIST]

MAT INPUT ALLOWS YOU TO ENTER ENTIRE ARRAYS FROM THE

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TERMINAL. SINGLE ELEMENTS MAY ALSO BE ENTERED. (EX. MAT INPUT A, OR
MAT INPUT A(4,4))

ENTER YOUR CHOICE, '0' TO STOP?5

MAT INPUT STATEMENT

GEN. FORM: MAT INPUT [ARRAY LIST]

MAT INPUT ALLOWS YOU TO ENTER ENTIRE ARRAYS FROM THE
TERMINAL. SINGLE ELEMENTS MAY ALSO BE ENTERED. (EX. MAT INPUT A, OR
MAT INPUT A(4,4))

ENTER YOUR CHOICE, '0' TO STOP?6

MAT...INV STATEMENT

GEN. FORM: MAT ARRAY NAME = INV[ARRAY NAME|

THIS STATEMENT INVERTS A SPECIFIED ARRAY. BOTH ARRAYS USED
IN THIS STATEMENT MUST BE SQUARE AND OF THE SAME DIMENSIONS. THE SAME
ARRAY MAY APPEAR ON BOTH SIDES OF THE EQUATION

ENTER YOUR CHOICE, '0' TO STOP?7

MAT MULTIPLICATION STATEMENT

GEN. FORM: MAT ARRAY NAME = ARRAY NAME 1 * ARRAY NAME 2

THE MAT MULTIPLICATION STATEMENT SETS A SPECIFIED ARRAY
EQUAL TO THE PRODUCT OF TWO ARRAYS. THE SAME ARRAY NAME MAY NOT APPEAR
ON BOTH SIDES OF THE EQUAL SIGN. THE NUMBER OF COLUMNS IN ARRAY 1
MUST EQUAL THE NUMBER OF ROWS IN ARRAY 2.

ENTER YOUR CHOICE, '0' TO STOP?8

MAT PRINT STATEMENT

GEN. FORM: MAT PRINT ARRAY PRINT LIST [PRINT DELIMITER]

THE MAT PRINT STATEMENT IS USED TO DISPLAY ENTIRE ARRAYS OR PORTIONS OF ARRAYS. WHEN USING THIS STATEMENT, PLACING COMMAS BETWEEN ARRAYS TO BE PRINTED WILL CAUSE THE ARRAY TO BE SPACED OUT, WHILE ON THE OTHER HAND IF SEMICOLONS ARE USED THE ARRAY IS PACKED TOGETHER. (EX. MAT PRINT A,B , MAT PRINT A;B).

ENTER YOUR CHOICE, '0' TO STOP?9

MAT PRINT# STATEMENT

GEN. FORM: MAT PRINT #FILE NUMBER,[RECORD NUMBER];END

OR

MAT PRINT #FILE NO,[REC. NO.];ARRAY WRITE LIST[PRINT DELIMITER[END]]

MAT PRINT # STATEMENT IS USED TO PRINT ENTIRE ARRAYS ON A SPECIFIED FILE. IT IS USED THE SAME WAY THE PRINT# STATEMENT IS.

ENTER YOUR CHOICE, '0' TO STOP?10

MAT PRINT USIN STATEMENT

GEN. FORM: MAT PRINT USING FORMAT PART [;ARRAY PRINT LIST]

THE MAT PRINT USING STATEMENT ALLOWS YOU TO CONTROL THE OUTPUT OF ARRAYS, OR PORTIONS OF ARRAYS. IT IS USED JUST LIKE THE PRINT USING STATEMENT, UTILIZING AN 'IMAGE'. SEE PRINT USING FOR MORE INFORMATION.

ENTER YOUR CHOICE, '0' TO STOP?11

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PRINTED TO ASCII FILES. IT MAY NOT BE USED WITH BASIC FORMATTED FILES.

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