CLS

LOCATE 4

PRINT "Input For Matrix A"

INPUT "Enter Number of Rows = ", ar%

INPUT "Enter Number of Columns = ", ac%

PRINT

PRINT "Input For Matrix B"

INPUT "Enter Number of Rows = ", br%

INPUT "Enter Number of Columns = ", bc%

DIM MatA(ar%, ac%) AS LONG, MatB(br%, bc%) AS LONG, MatC(ar%, bc%) AS LONG

IF ac% <> br% THEN

PRINT

PRINT

order$ = "Columns of Matrix A are not equal to rows of Matrix B"

OrderLen = LEN(order$)

LOCATE , (80 - OrderLen) / 2

PRINT order$

ELSE

CLS

row = 2

LOCATE row, 2

PRINT "A = "

FOR i = 1 TO ar%

col = 10

FOR j = 1 TO ac%

LOCATE row, col

INPUT "", MatA(i, j)

col = col + 10

NEXT j

row = row + 1

NEXT i

row = row + 2

LOCATE row, 2

PRINT "B = "

FOR i = 1 TO br%

col = 10

FOR j = 1 TO bc%

LOCATE row, col

INPUT "", MatB(i, j)

col = col + 10

NEXT j

row = row + 1

NEXT i

row = row + 2

LOCATE row, 2

PRINT "C = "

FOR i = 1 TO ar%

col = 10

FOR j = 1 TO bc%

MatC(i, j) = 0

FOR k = 1 TO ac%

MatC(i, j) = MatC(i, j) + MatA(i, k) \* MatB(k, j)

NEXT k

LOCATE row, col

PRINT MatC(i, j)

col = col + 10

NEXT j

row = row + 1

NEXT i

END IF