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