

input matrices A, B

define $m = \#$ of rows of A,
 $n = \#$ of cols of A
 $p = \#$ of rows of B
 $q = \#$ of cols of B

if n is not equal to p , then do nothing
else

define empty matrix C of m rows
and q cols

for i from 1 to m

for j from 1 to q

define $C_{ij} = 0$

for k from 1 to n

$C_{ij} = C_{ij} + A[i, k] * B[k, j]$

end for

end for

$C[i, j] = C_{ij}$

end for

print C