```
    var
      Sum: Integer;
      I, J, K: Positive;
  begin
    if (LoARow <> 1) or (LoACol <> 1) or
       (LoBRow <> 1) or (LoBCol <> 1) or
       (LoCRow <> 1) or (LoCCol <> 1) or
       (HiARow <> HiCRow) or (HiACol <> HiBRow) or
       (HiBCol <> HiCCol) then {error}
    else
      for I := 1 to HiCRow do begin
        for J := 1 to HiCCol do begin
          Sum := 0;
          for K := 1 to HiACol do
            Sum := Sum + A[I,K] * B[K,J];
          C[I,J] := Sum
        end;
      end
  end { Multiply };

begin
   ReadMatrix(A);
   WriteMatrix(A);
   ReadMatrix(B);
   WriteMatrix(B);
   Multiply(A,B,C);
   WriteMatrix(C)
end .
```

Produces as results:

```
         1          2          3
        -2          0          2
         1          0          1
        -1          2         -3

        -1          3
        -2          2
         2          1

         1         10
         6         -4
         1          4
        -9         -2
```