```
void dgemm (int n, double* A, double* B, double* C)
2.
    {
3.
      for (int i = 0; i < n; ++i)
         for (int j = 0; j < n; ++j)
4.
5.
           double cij = C[i+j*n]; /* cij = C[i][j] */
6.
           for( int k = 0; k < n; k++)
7.
             cij += A[i+k*n] * B[k+j*n]; /* cij += A[i][k]*B[k][j] */
8.
           C[i+j*n] = cij; /* C[i][j] = cij */
9.
10.
11.
```

FIGURE 2.43 C version of a double precision matrix multiply, widely known as DGEMM for Double-precision GEneral Matrix Multiply (GEMM).

Copyright © 2021 Elsevier Inc. All rights reserved