Algorithm 1 Square Matrix Multiplication

1: **function** MM($\mathbf{A}, \mathbf{B}, \mathbf{C}, n$)
2:     $sum \leftarrow 0$
3:     **for** $i = 0, 1, 2 \ldots, n - 1$ **do**
4:         **for** $j = 0, 1, 2 \ldots, n - 1$ **do**
5:             $sum \leftarrow 0$
6:             **for** $k = 0, 1, 2 \ldots, n - 1$ **do**
7:                 $sum \leftarrow sum + \mathbf{A}[i][k] \cdot \mathbf{B}[k][j]$
8:             $\mathbf{C}[i][j] \leftarrow sum$