```
if n == 1
    // Base case.
         c_{11} = c_{11} + a_{11} \cdot b_{11}
         return
     // Divide.
    partition A, B, and C into n/2 \times n/2 submatrices
          A_{11}, A_{12}, A_{21}, A_{22}; B_{11}, B_{12}, B_{21}, B_{22};
         and C_{11}, C_{12}, C_{21}, C_{22}; respectively
    // Conquer.
    MATRIX-MULTIPLY-RECURSIVE (A_{11}, B_{11}, C_{11}, n/2)
    MATRIX-MULTIPLY-RECURSIVE (A_{11}, B_{12}, C_{12}, n/2)
    MATRIX-MULTIPLY-RECURSIVE (A_{21}, B_{11}, C_{21}, n/2)
10
    MATRIX-MULTIPLY-RECURSIVE (A_{21}, B_{12}, C_{22}, n/2)
11
    MATRIX-MULTIPLY-RECURSIVE (A_{12}, B_{21}, C_{11}, n/2)
12
    MATRIX-MULTIPLY-RECURSIVE (A_{12}, B_{22}, C_{12}, n/2)
13
    MATRIX-MULTIPLY-RECURSIVE (A_{22}, B_{21}, C_{21}, n/2)
14
     MATRIX-MULTIPLY-RECURSIVE (A_{22}, B_{22}, C_{22}, n/2)
15
```

MATRIX-MULTIPLY-RECURSIVE (A, B, C, n)