

## Strassen's algorithm

- 1. Divide: Partition A and B into  $(n/2)\times(n/2)$  submatrices. Form terms to be multiplied using + and -.
- 2. Conquer: Perform 7 multiplications of  $(n/2)\times(n/2)$  submatrices recursively.
- 3. Combine: Form C using + and on  $(n/2)\times(n/2)$  submatrices.

$$T(n) = 7 T(n/2) + \Theta(n^2)$$