Matrix Multiplication

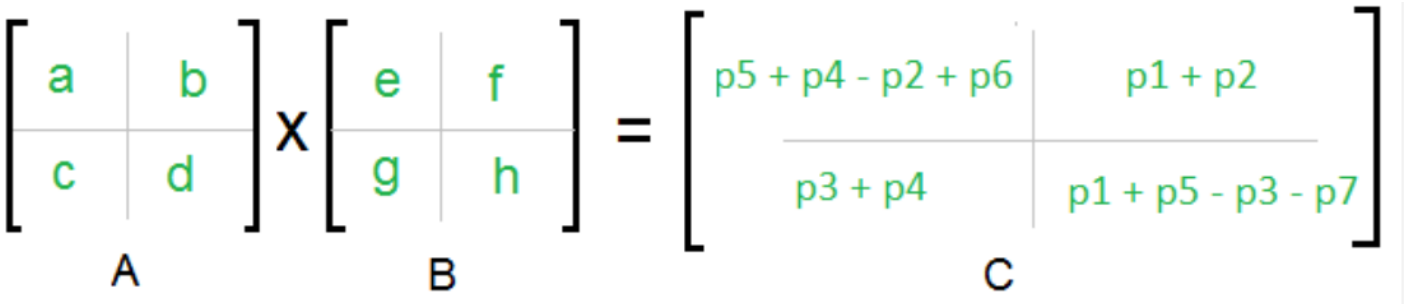
Method: Modified Divide and Conquer (Strassen's Subcubic Matrix)

Input: Two matrices A(nm) and B(mk)

Output: Matrix C(nk) = A.B

Steps:

1. divide A and B into 4 matrices (each) and compute **Seven** products (recusrively)
2. add and subtract the pairs as following:



Run time: $O(N^2)$

Implementation: The matrx multiplication via two methods: Divide&Conquer $O(N^3)$, and modified Divide & Conquer (Strassen'ssubcubic Martix) $O(N^2)$ (Python v.3).