

Matrix Multiplication

Thursday, October 4, 2018 1:21 PM

Matrix $m \times m$: $A \times B = C$

→ For the case of multiplying two square matrices (and)

two rectangular matrices,

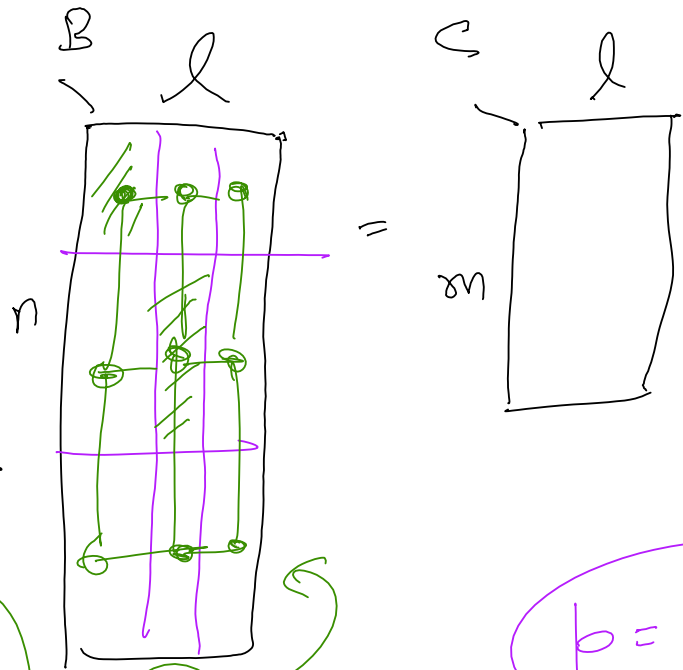
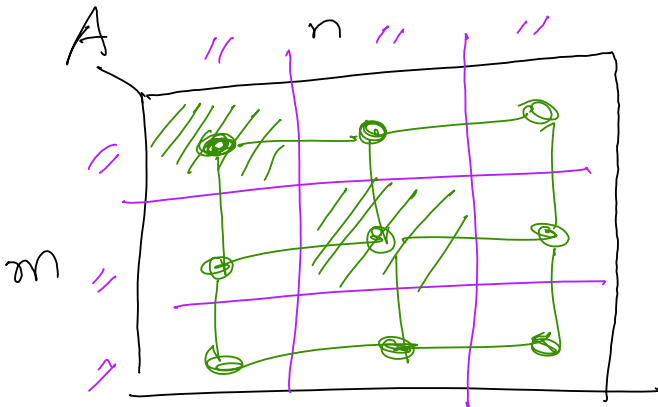
see the powerpoint slides corresponding

to Cannon's algorithm covered in class on 4/10.

Matrix Multiplication

Thursday, October 4, 2018 11:57 AM

*i) Matrices = square ii) $n^2 = p$
A & B*



Area of A = mn
submatrix will contain $\frac{mn}{p}$
Cells

$p = k^2$

$\sqrt{\frac{mn}{p}}$
 $\times \sqrt{\frac{nl}{p}}$

$\frac{nl}{p}$
 $p = k^2$

k divides m
& k divides n

A : $(p = k^2)$ submatrices

B :))