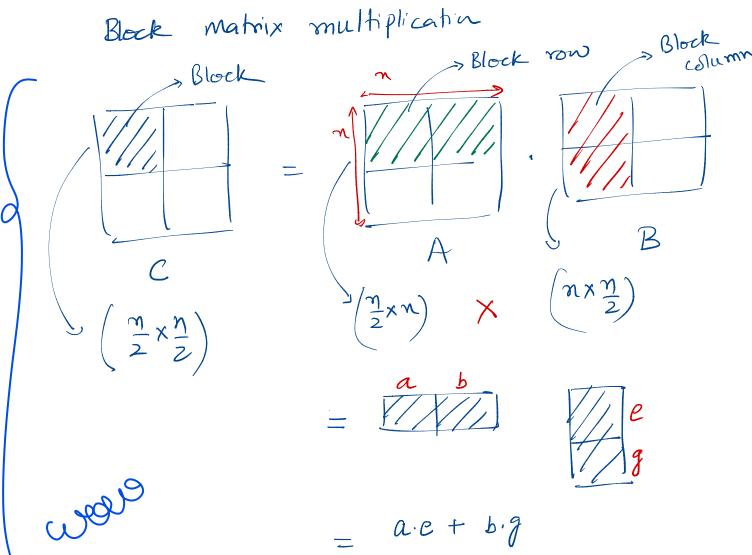
## Multiplication Matrx

Matnx multiplication keen on dot products:



$$T(n) = 8 T(\frac{n}{2}) + \theta(n^2)$$

$$n \log_b a$$
 $a = 8$ 
 $b = 2$ 

$$a = 8$$

$$b = 2$$

$$\Rightarrow$$
  $T(n) = \Theta(n^3)$