SUNAS JAIN 196530048 In general for multiplying 2 matrices of size and bx oc. for calculating each element of the new matoin of size axb we need following operations / · b multiplications · b-1 additions. Total = 26-1 operations per element To find the final matrin ax c x (25-1) operations. (i) To calculate (AB) (for AB -> p (2q-1) & operations for (AB) (-> p(2q-1)8+p(28-1)t operations. To calulate A(BC) JOSBC -> q (28-1) t oherations. for A(B() -> q(27-1)t+ p(2q-1)t operations. he more efficient. for (AB) C to p(2q-1)+p(2s-1)t < p(2q-1)t+q(2s-1)t.divide by part.

 $\frac{2}{\text{ot}} - \frac{1}{9t} + \frac{2}{9} - \frac{1}{98} \times \frac{2}{98} - \frac{1}{98} + \frac{2}{98} - \frac{1}{98}$ We can ignore the terms with 2 terms in the denominator les course they will be very small comparation.

8

.

-

500 20