R9
2D Array Questions

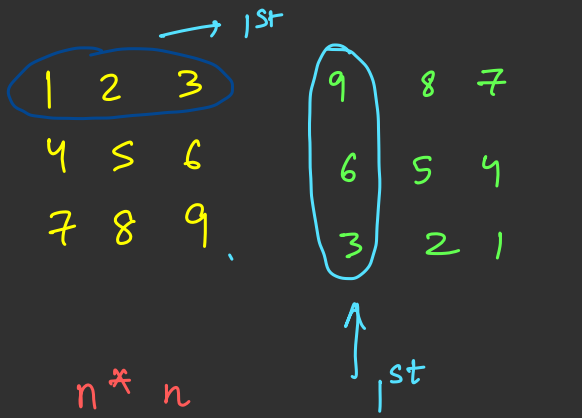
For discord mail to support@learnyard.com

Input

Input elements of matrix1:
1 2 3
4 5 6
7 8 9
Input elements of matrix2:
9 8 7
6 5 4
3 2 1

Output

Product of matrices =
30 24 18
84 69 54
138 114 90

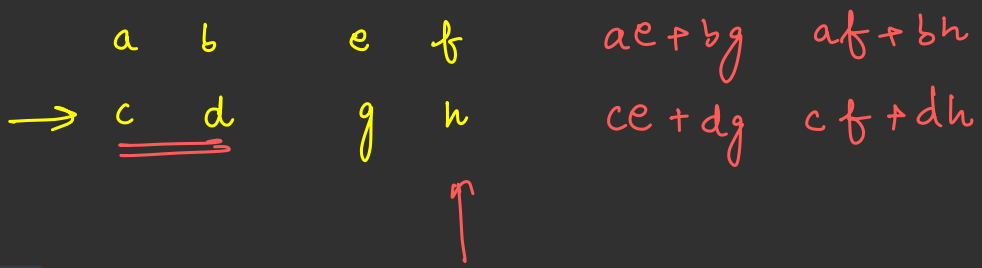


Explanation slide

Matrix Multiplication

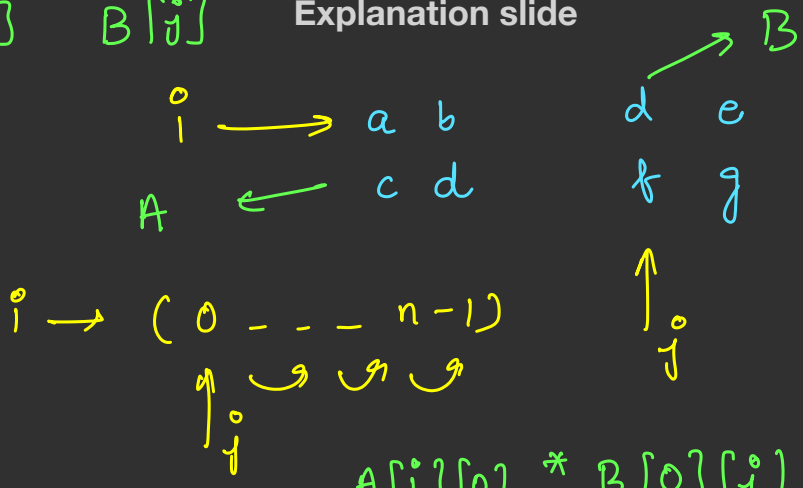
Two matrices can be multiplied only and only if number of columns in the first matrix is same as number of rows in second matrix. Multiplication of two matrices is defined as –

$$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} e & f \\ g & h \end{bmatrix} = \begin{bmatrix} ae+bg & af+bh \\ ce+dg & cf+dh \end{bmatrix}$$

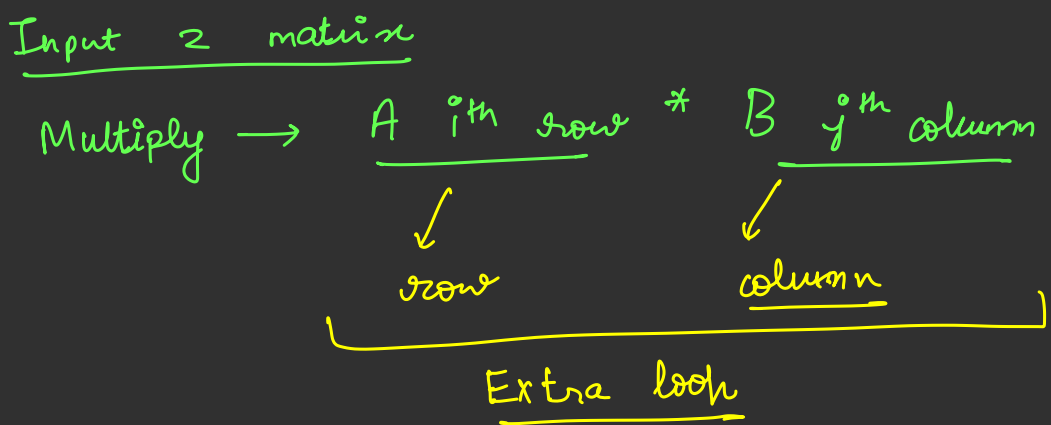


A[i] B[j]

Explanation slide



Explanation slide



Thank You!

Please practice more questions and examples as above !!