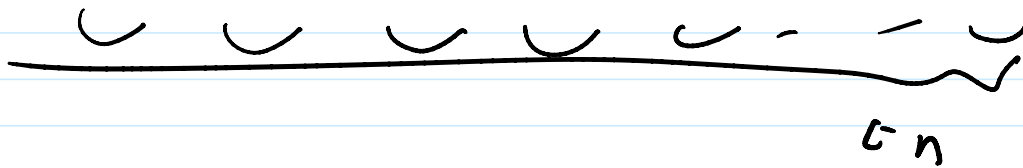


a ← index $\frac{1}{0}$

int[] a = new int[n];



$n \times n$

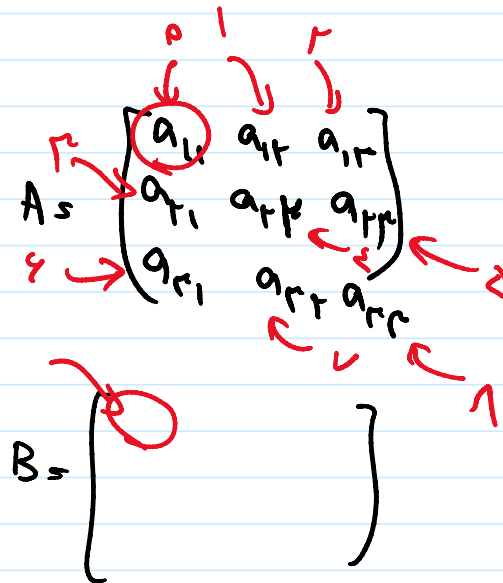
3

$A_{n \times n}$

$B_{n \times n}$

$A+B$

A new



$A \times B$

$$A = \begin{bmatrix} a_{11} & a_{1r} \\ a_{r1} & a_{rr} \end{bmatrix}$$

$$B = \begin{bmatrix} b_{11} & b_{1r} \\ b_{r1} & b_{rr} \end{bmatrix}$$

$$A \times B = \begin{bmatrix} a_{11} \cdot b_{11} + a_{1r} \cdot b_{r1} & a_{11} \cdot b_{1r} + a_{1r} \cdot b_{rr} \\ a_{r1} \cdot b_{11} + a_{rr} \cdot b_{r1} & a_{r1} \cdot b_{1r} + a_{rr} \cdot b_{rr} \end{bmatrix}$$

$$A_{n \times n} \quad B_{n \times n} = \sum_{k=1}^n a_{ik} \cdot b_{kj}$$

$$(A \times B)_{ij} = a_{i1} \cdot b_{1j} + a_{ir} \cdot b_{rj} + \dots + a_{in} \cdot b_{nj}$$

$$\begin{pmatrix} a_{i1} & a_{ir} & \dots & a_{in} \end{pmatrix} \begin{pmatrix} b_{1j} \\ b_{rj} \\ \vdots \\ b_{nj} \end{pmatrix}$$

int[][][]{}[]..

int[][] = new int[n][n];

$$\begin{bmatrix} 1 & 1 & 2 \\ 2 & 2 & 2 \\ 4 & 2 & \bigcirc \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 2 \\ 2 & 2 & 4 \\ 2 & 1 & \bigcirc \end{bmatrix} \quad i, j$$



$$\underline{v} \quad d \quad e \quad n \quad n \times i + j + 1$$

↓

$$\begin{bmatrix} 1 & 1 & 2 \\ 2 & 2 & \bigcirc \\ 4 & 2 & 2 \end{bmatrix}$$

$$n = \text{Math.random}$$

$$0 \leq n < 1$$

$$0 \leq 10n < 10$$

$$0 \leq \lfloor 10n \rfloor \leq 9$$

