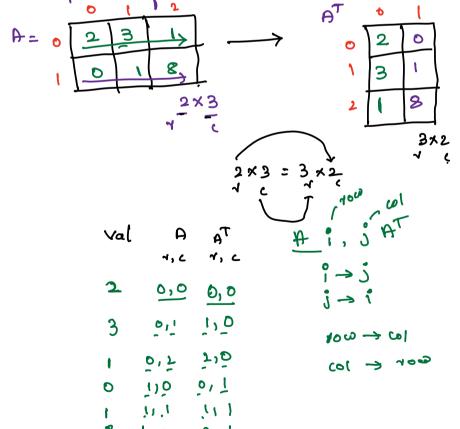
path+n.

$$A = \begin{cases} \frac{2}{2} & \frac{2}{2} & \frac{2}{2} \end{cases} \xrightarrow{A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 0 & 0 \\ 1 & 1 & 1 \end{cases}} \xrightarrow{A \cdot \text{long}(A) - 1}$$

$$4 \cdot \text{lows} \xrightarrow{A = \begin{bmatrix} 1 & 1 & 1 \\ 0 & 0 & 0 \\ 1 & 1 & 1 \end{bmatrix}} \xrightarrow{\text{cols}} \xrightarrow{$$

By Given a matrix A. write a junction that returns
the trunspose of a matrix.



static interest transpose (interest ) d

int N= mat.dength;

int N= mat.cog.dength;

int transcrict = new intend cnd;

tow-col.

for (int row = 0; row 2 N; rowth) d

transcrictification = materows cross;

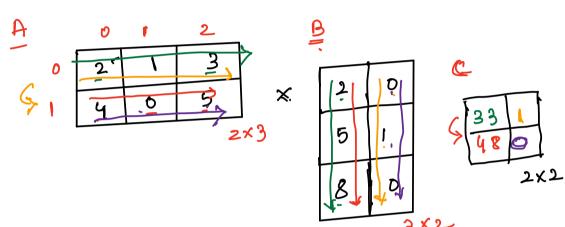
col row

int transcrictification = materows cross;

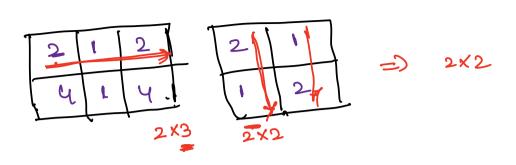
col row

return trans;

Q2) Given A and B matrices. write a function to return a Matrix C. = A \* B (matrix multipliate



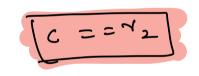
$$2 \times 2 + 1 \times 5 + 3 \times 8 = 33$$
 $2 \times 2 + 1 \times 5 + 3 \times 8 = 33$ 
 $2 \times 0 + 1 \times 1 + 3 \times 0 = 1$ 
 $4 \times 2 + 0 \times 5 + 5 + 8 = 48$ 
 $4 \times 0 + 0 \times 1 + 5 \times 0 = 0$ 



2×2+1×1+2× (55 no. ->

Matrix multiplication is not possible.

$$\begin{array}{cccc}
A & & B & \longrightarrow & NO \\
2 \times 2 & & 4 \times 2 & & \\
4 & & & & & \\
4 & & & & & \\
\end{array}$$



N=2 M=3

amphal & NXM MX angling

BXY XX S

Jud Note

1) To multiply two matrix

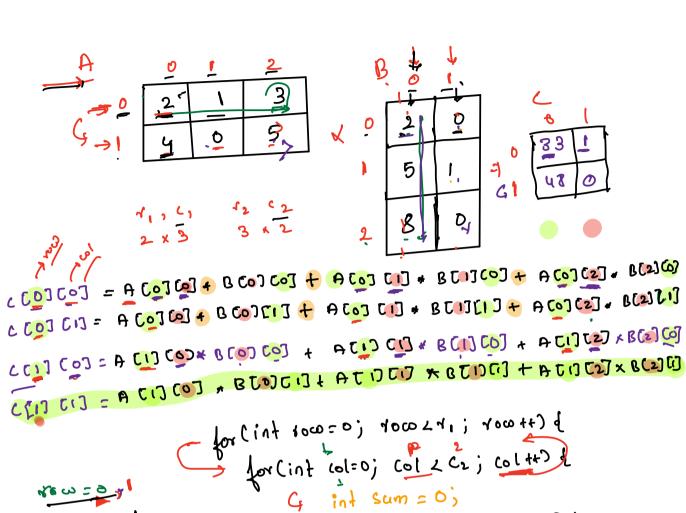
A and B of size 1. × 4 y 12×C2

[C1 == 12]

Prince of Acoustic and Acoust Be of Size 1, x C, and 12 x C2 will be of Size

Jul 22

$$A \subset 3 \times 4$$
  $B \subset 4 \times 7$   $Y = 3$   
 $A \subset 3 \times 7$   $B \subset 4 \times 7$   $Y = 3$   
 $A \subset 2 \times 2$   $B \subset 4 \times 7$   $Y = 3$   
 $A \subset 4 \times 7$   $B \subset 4 \times 7$   $Y = 3 \times 4$   $Y = 4$   $Y$ 



```
for (int 1000=0; 100021; 1000+1) d

for (int 100=0; col 2 cz; col+1) d

(int sum = 0;

for (int i = 0; i < ii it) d 011/2

Sum = Sum + (A Grow][i] * B[i][(u))

Col - danging

(col - danging

return C;
```

## Identify matrix

k: 5

int new AEntij

(D-A

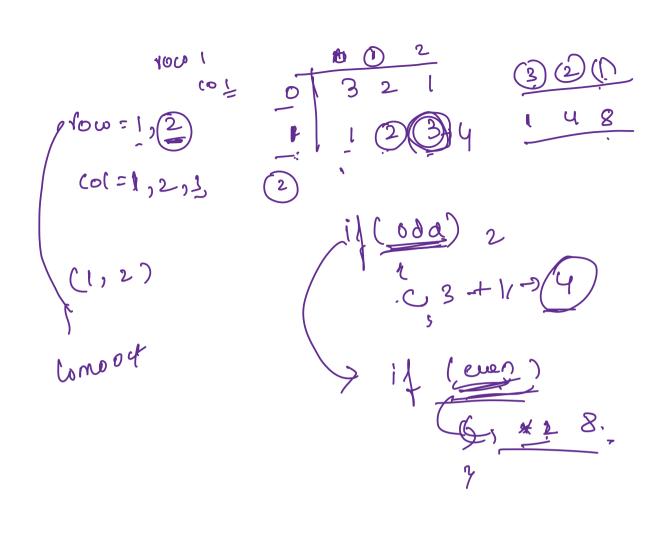
(D) = B(nty)

(1)  $\frac{1}{2}$ ,  $\frac{3}{3}$ ,  $\frac{4}{3}$ ,  $\frac{1}{3}$ ,  $\frac{$ int new A 5 n + 13

$$\begin{array}{ccc}
\text{(2)} & 0 & -i & 1 \\
\text{(3)} & 0 & -i & 1 \\
\text{(4)} & i & d & d & -i & 1
\end{array}$$

ida - remve

Toward



int materc].

intel A => int Aco.

Main ( ) ( intcoco met=new intco (a) intC] A = new Int Cs]; bengyman ( +); Print Num (B) A. lugth; print 20array (A);
print 20array (S); AtoJ. length; interes (ren = franc pose (mat); int sq = square Nam (5); int A = new int [5]; arr = new int (6);

0	https://www.interviewbit.com/snippet/0c8c2cb98106c79b7e00/