

Ques

$n \times n \Rightarrow 3 \times 3$

$k \Rightarrow 3$

i j

1 1 1
1 1 0
1 1 1

1 1
1 2
3 2

4 2 1

$O(n)$ [1 loop ($0 \rightarrow n$)
2 times

3 3
1 1
1 2
3 2

$1 \rightarrow 2 O(n) \Rightarrow O(n)$

$k \rightarrow O(k \times n) \Rightarrow O(kn)$

0 0 0
0 0 0
0 0 0

rows 0 1 2 3 $rc = 1$
cols 0 1 2 3 $cc = 2$

$k \Rightarrow 3$

i j

1 1

1 2

$\rightarrow 3 2$

ans $\Rightarrow n \times n \Rightarrow 9 \cancel{8} \cancel{7} \cancel{6} \cancel{5} \cancel{4} \cancel{3} \cancel{2} \cancel{1}$

no of z = $\sqrt[n-rc]{n-rc}$ $\sqrt[n-cc]{n-cc}$ 4 2 1

Ques

A 4 n

B 5 m

C \Rightarrow 9

0	1	2	3	4	5

Median \rightarrow Odd \rightarrow middle element

\rightarrow even \rightarrow avg of 2 middle elements

TC

$$n+m \Rightarrow \underbrace{(n+m) \log(n+m)}$$

\downarrow

$n+m$

merge
2 sorted
arrays

1 2 4 6 10

2 3 5

\uparrow
j

i
 \downarrow

1	2	2	3	4	5	6	10
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\uparrow
k