7-Dec-2021

07 December 2021 20:57

Max Sum Column.

	0	1	2
0	1	2	3
1	4	5	6
2	7	8	9
	12	15	18

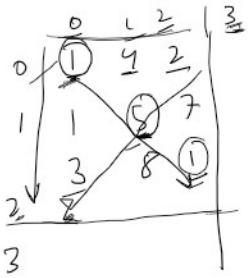
Sum = 0 + 12 + 15 + 18

cs = 0

```
sumCol (mat[][]) {
int sum = 0;
for (i = 0 to mat[0].length) {
int cursum = 0
for (j = 0 to mat.length) {
cursum += mat[j][i];
}
if (sum < cursSum) {
sum = cursSum
}
}
return sum;
}
```

```
int n = 5
n = n + 10;
n += 10
cursSum = cursSum +
mat[i][i]
```

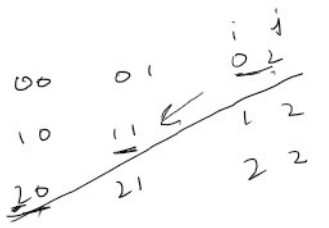
Diagonal Sum :-



PD = 1 + 5 + 1 = 7

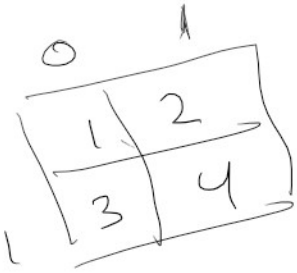
SD = 2 + 5 + 3 = 10

```
diagonalSum (mat[][]) {
int i = 0;   int pd = 0;
int j = 0;   int sd = 0;
while (i < mat.length &&
        j < mat[0].length) {
pd += mat[i][j];
i++;
j++;
}
i = 0, j = mat[0].length - 1
while (i < mat.length &&
        j >= 0) {
sd += mat[i][j];
i++;
j--; }
sout (pd);
sout (sd);
}
```



i = 0 + 1 = 1 + 1 = 2

j = 2 - 1 = 1 - 1 = 0



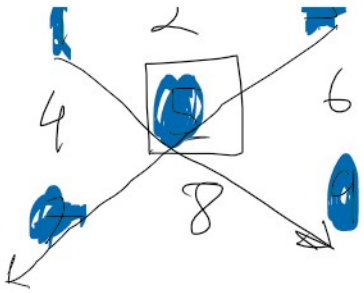
Matrix Diagonal Sum :-

https://leetcode.com/problems/matrix-diagonal-sum/

SD = 15

D = 15

10
14
15



SD = 15

PD = 15

Sum = 15 + 15 = 30

Sum = Sum - X

3, 3

3/2 = 1

3/2 = 1

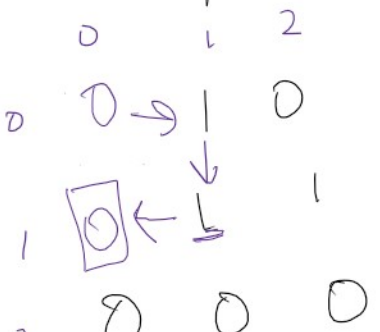
if (row % 2 == 1) {

Sum -= mat [row/2] [col/2

}

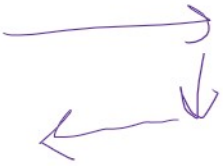
Exit point of a Matrix

https://practice.geeksforgeeks.org/problems/exit-point-in-a-matrix0905/1



0 => Same direction

1 => move to Right



Spiral Method

left = 0 1

right = 4 3 2

top = 0 1 2

bottom = 3 2 1