

HW CLASS: 09 11/9/23  
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Print sum of secondary diagonal of a matrix:

```
// Sum of secondary diagonal elements of a matrix
void secondaryDiagonalSum(int arr[][3],int row,int col){
    int sum=0;

    for(int i=0;i<row;i++){
        for(int j=0;j<col;j++){
            if(i+j==(col-1)){
                sum+=arr[i][j];
            }
        }
    }
    cout<<sum<<endl; // 16
}
```

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<sup>00</sup> 1	<sup>01</sup> 2	<sup>02</sup> 3
<sup>10</sup> 4	<sup>11</sup> 6	<sup>12</sup> 6
<sup>20</sup> 7	<sup>21</sup> 8	<sup>22</sup> 9

Secondary Diagonal { 3 + 6 + 7 = 16  
 Logic if (i+j == (col-1))  
 ↳ sum += arr[i][j]

Print row and col wise sum of 2D Array:

Row wise sum

1	→ 2	→ 3	→ 6
4	→ 5	→ 6	→ 15
7	→ 8	→ 9	→ 24

Column wise sum

1	2	3
4	5	6
7	8	9
↓	↓	↓
12	15	18

```
// Print row wise sum
void printRowWiseSum(int arr[][3],int row,int col){

    for(int i=0;i<row;i++){
        int sum=0;
        for(int j=0;j<col;j++){
            sum+=arr[i][j];
        }
        cout<<sum<<endl;
    }
}
```

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```
// Print column wise sum
void printColumnWiseSum(int arr[][3],int row,int col){

    for(int i=0;i<col;i++){
        int sum=0;
        for(int j=0;j<row;j++){
            sum+=arr[j][i];
        }
        cout<<sum<<endl;
    }
}
```

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