Todays Content:

There are ${\bf B}$ flights labeled from ${\bf 1}$ to ${\bf B}.$

You are given a 2D array of flight bookings A, where A[i] represents a booking for flights numbers from A[i][0] through A[i][1] (inclusive) with A[i][2] seats reserved for each flight in the range.

Return an array of length **B**, where each element at index **i** is the total number of seats reserved for flight **i**.

Note: For example if $A[i] = \{2,4,3\}$ that means in every flight from range 2 to 4, 3 seats are reserved.

Problem Constraints

$$1 \le |B| \le 10^5$$
 $1 \le |A| \le 10^5$
 $|A[i]| = 3$
 $1 \le |A[i][0] \le |A[i][1] \le n$
 $1 \le |A[i][0] \le |A[i][1] \le n$
 $1 \le |A[i][2] \le 10^4$

In gener arr () 0... 6-1

En:
 $0 \mid 2 \mid 3 \mid 4$
 $0 \mid 2 \mid 3 \mid 4$

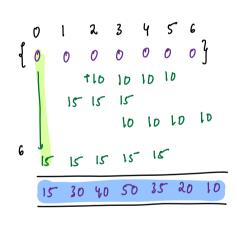
$$B=5 = \{0 \ 0 \ 0 \ 0 \ 0 \}$$
 $A=$

L R Trickets

[1 2 10] \rightarrow [0 1 10]

$$\begin{bmatrix} 2 & 3 & 20 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 2 & 20 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 5 & 25 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 4 & 25 \end{bmatrix}$$



```
A [4] [3]
                                                            : 15 30 40 50 35 20 10
0 | \lambda

L R Trukets

L R Trukets

O[3 6 10] \rightarrow 0[2 5 10]: cnt[2] +=10 cnt[6] -=10

L R [2 4 15] \rightarrow 1[] 3 15]: cnt[1] +=15 cnt[4] -=15
2[4 7 10] - 2[3 6 10]: Cnt[3] += 10 Cnt[7): no seed of Subnat
3[1 5 15] -> 3[0 4 15]: cn+[0]+=15 cn+[5]-=15
Int() Flight Book (Int B, int A()[)) &
 int cnt[] = new int[b];

Int & = A·length;

i=0; i(&;i+1){

Int l= A[i][o]; l=l-1;

Int r= A[i][i]; r=r-1;

Int t= A[i][2)
    If t = Alisted

If Perform Query, and t from inden [1...r]

cot[e] = cot(e) + t;

If CreixB) &

cot(rei) = cot(rei) - t;

I last Sty: Prefin Sum on arrighterum.

Todo: Apply psum on coti) & return
```

Problem Constraints

$$1 \le A[i][j] \le 10^9$$

Input Format

First argument A is a 2D integer array

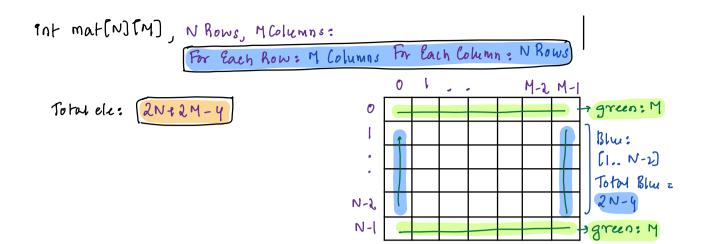
Output Format

Return an array of integers denoting the boundary elements of the matrix

En2:



3



```
int() bounday (int mat[7(1)) {
   int N=mat. length;
   Int M= mat(o). length;
   if (N==1 || M==D&
         if (N==) &// matsize: 1 * M

int bol(M);

int k=0;
                                          if (M==1) {// Mats [7e: Nx]
                                               LUT POI [N]
                                               rnt k=0;
             freint jeojikmijtor
                                              for(90+ 9=0;92N;9+D6
               bol[h] = mat(o](j];
                                                  bol[k] = mat[i][o]
                                                 return bol;
    9nt bod [2+N+2+M-4]/
    Pnt Kzoj
    11Step1: Iterate on obrow: 11Step2: Iterate on M-1 Col
        for( fort j=0; j x M; j+1) {

| bod [k] = mat[0][j] | bod [k] = mat[i][M-1];

| k=k+1;
                                         bod[k] = mat[i][M-1];
k=k+1;
    11stepl: Iterate on N-1 mow: Astepy: Iterate on o Mal:
        for ( Pot j= M-1; j >=0; J-) for (Pot j= N-2; 1>=1; 1--) {
                                          bod[k] = mat[i][0]; .
K=K11;
          bod[h] = mat[N-1][j]
K=Ktl;
       return bod;
```

Problem Description

Construct a binary number having A 1's followed by B 0's Return the decimal value of that binary number. For eg - A = 3, B =
$$20$$
 Answer = $(11100)_2$. Return = 28

Problem Constraints

Input Format

The first argument is a single integer A. The second argument is a single integer B.

Output Format

Return a single integer that is the decimal value of the converted binary number.

$$\theta = 9 \text{ B} = 3$$
: $val = 1111 \rightarrow 2^{9} + 2^{1} + 2^{2} + 2^{3} = (2^{1} - 1) \rightarrow (1249) - 1$

$$(1249 - 1) 43$$