

April  
2015

11  
Saturday

wk - 15

101-264

## Brute Force

Iterate through  $(i, j)$  rows & columns  
if you find 0 mark the  
whole row & column as 0

1	-1	-1	1
-1	0	0	-1
-1	-1	0	-1
1	-1	-1	1

iterate again  
to convert  
-1's to 0's

12  
Sunday

102-263

In this brute force method,  
you iterate through  $i, j$  rows & columns. Once you find  
a '0' like in

(2, 2)  
position in array

1	1	1
1	0	1
1	1	1

you convert the corresponding  
2nd row & 2nd column to -1  
initially, this is done  
to avoid confusion of the

April

M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12		
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30										

corresponding '0' in the  
2nd row & 2nd column as the original 0 given in question.

13  
Monday

103-262

April  
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wk - 16

Appointments

2/1/3  
1/1/1

```
for (int i = 0; i < n; i++)
{
    for (int j = 0; j < m; j++)
    {
        if (arr[i][j] == 0)
        {
            markRow(i);
            markColumn(j);
        }
    }
}
```

markRow(i)

```
{
for (int j = 0; j < m; j++)
{
    if (arr[i][j] != 0)
    {
        arr[i][j] = -1;
    }
}
```

MarkColumn(j)

```
{
for (int i = 0; i < n; i++)
{
    if (arr[i][j] != 0)
    {
        arr[i][j] = -1;
    }
}
```

May

M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10				
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31							



April  
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14  
Tuesday

104-261

wk - 16

Optimal Approach

Sinhala New Year's Day (Sri Lanka), Tamil New Year's Day (India, Sri Lanka), Ambedkar Jayanti (India)

Appointments

Better App

⊙

Better Approach

track  
if row  
is marked

array  
of size  
n

	0	0	0	0
0	1	1	1	1
0	1	0	0	1
0	1	1	0	
0	1	1	1	1

to track if column  
is marked

array of  
size m

yet not  
touched

Here you iterate

Step 1

(1,1)	(1,2)	1,3	1,4
1	1	1	1
(2,1)	(2,2)		
0	0		

April

M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12		
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30										

15  
Wednesday

105-260

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Appointments

Step 1

	0	0	0	0
0	1	1	1	1
0	1	0	0	1
0	1	1	0	
0	1	1	1	1

So after this

Now if  
So if 0's in xarr & yarr  
are marked 1,  
then we convert the  
whole corresponding  
row & column

So end result

1	0	0	1
0	0	0	0
0	0	0	0
1	0	0	1

May

M	T	W	T	F	S	S	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10				
11	12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31							