

Multidimensional Arrays

- Rotate by 90 degree
- Given a square matrix of size $N \times N$.
- $N \rightarrow$ Number of Row and column
- Rotate it by 90 degrees in anti-clockwise

`int x [3] [3]`

1	2	3
4	5	6
7	8	9

Hello world

Multidimensional Arrays

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90 degree

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4	5	6
7	8	9

int x [3] [3]

3	6	9
2	5	8
1	4	7

Hello world

Multidimensional Arrays

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1	2	3
4	5	6
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90 degree

int x [3] [3]

3	6	9
2	5	8
1	4	7

Answer

1	4	7
2	5	8
3	6	9

3	6	9
2	5	8
1	4	7

Hello world

Multidimensional Arrays

`int x [3] [3]`

1	2	3
4	5	6
7	8	9

90 degree

Loop -> $i = 0$ to $i < 2$

0	1	4	7	7	7
1	2	5	8	8	8
2	3	6	9	9	9
3	3	6	9	9	9
4	3	6	9	9	9

`int x [3] [3]`

0	1	4	7
1	2	5	8
2	3	6	9

Loop -> $i = 0$ to $i < 1$

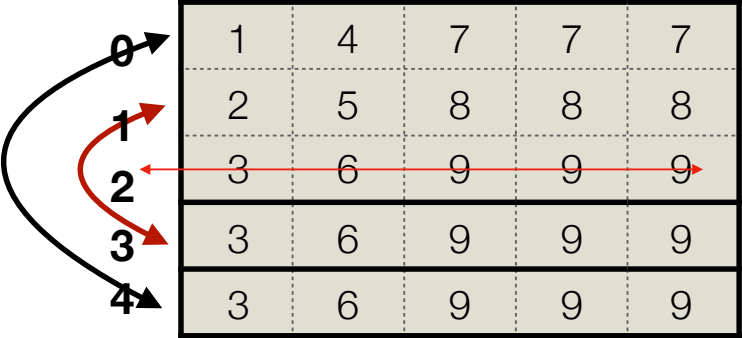
0	1	4	7	7
1	2	5	8	8
2	3	6	9	9
3	3	6	9	9

Loop -> $i = 0$ to $i < 2$

Hello world

Multidimensional Arrays

Loop -> i= 0 to i< 2



0	1	4	7	7	7
1	2	5	8	8	8
2	3	6	9	9	9
3	3	6	9	9	9
4	3	6	9	9	9

```
for(int i=0 ; i< (n/2) ; i++)  
{  
  
}  
}
```

0 -> 1

matrix[i] []

0

1

matrix[n-1-i] []

5-1-0 //4

5-1-1 //3

Hello world