

Multidimensional Arrays

- Sum of upper and lower triangles
- N → Number of Row and column
- sum of upper triangular elements
- sum of lower triangular elements

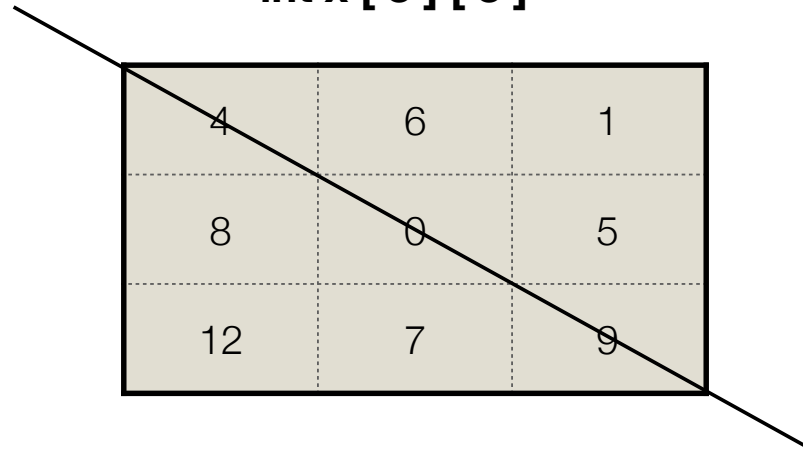
int x [3] [3]

4	6	1
8	0	5
12	7	9

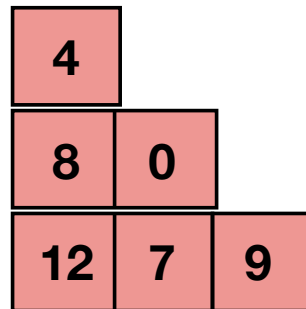
Hello world

Multidimensional Arrays

`int x [3] [3]`

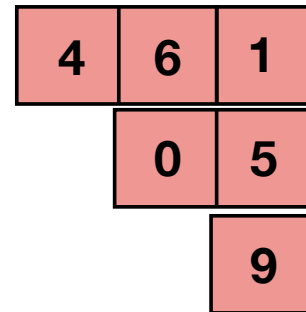


4	6	1
8	0	5
12	7	9



4		
8	0	
12	7	9

Lower Triangle



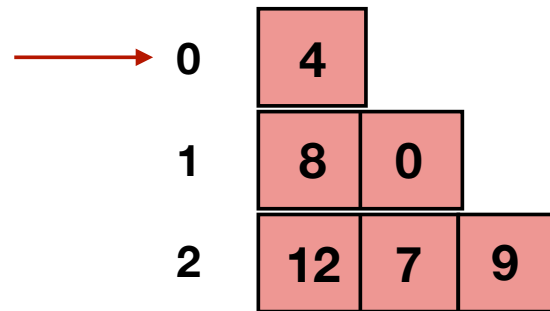
4	6	1
	0	5
		9

Upper Triangle

Hello world

Multidimensional Arrays

Lower Triangle



0	4		
1	8	0	
2	12	7	9

int x [3] [3]

4	6	1
8	0	5
12	7	9

```
For( int i =0 ; i< row ;i++){
```

```
    i= 0      |      j=0
```

```
    i= 1      |      j=0   j = 1
```

```
    i= 2      |      j=0   j = 1   j =2
```

```
}
```

Hello world

Multidimensional Arrays

Upper Triangle

→ 0	4	6	1
1		0	5
2			9

int x [3] [3]

4	6	1
8	0	5
12	7	9

```
For( int i = 0 ; i < row ; i ++ ){
```

```
    i = 0      |    j = 2  j = 1  j = 0
```

```
    i = 1      |    j = 2  j = 1
```

```
}
```

```
    i = 2      |    j = 2
```

Hello world