

# C Language

## 2d Arrays



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# Agenda

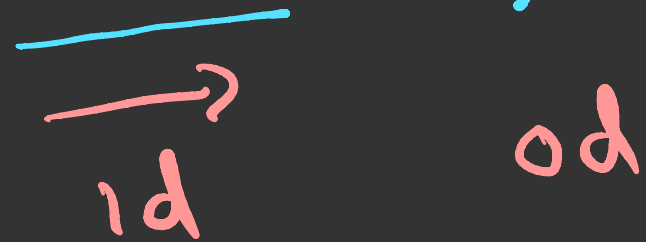
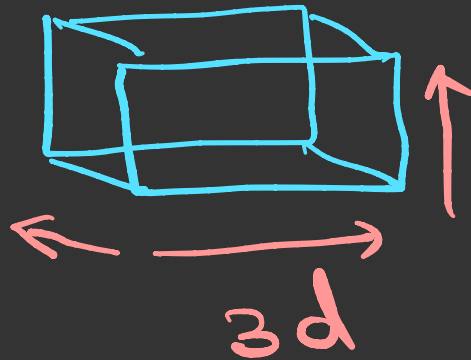
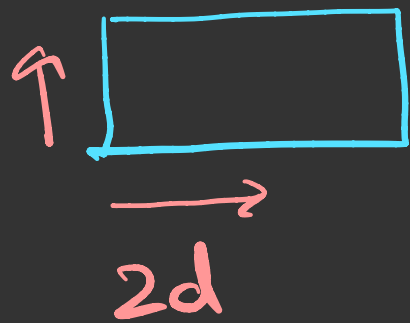
- ① Two dimensional arrays
- ② multi dimensional arrays.

# Two dimensional Arrays

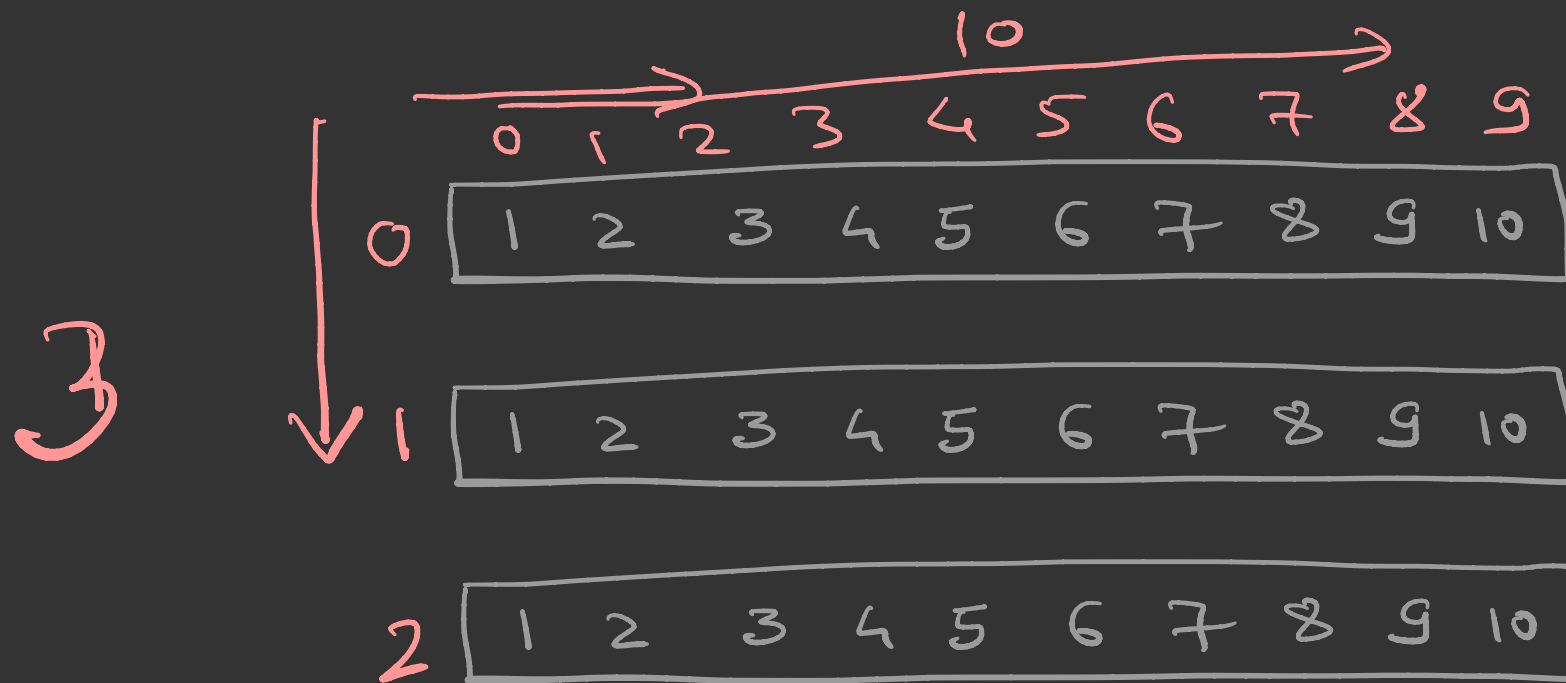
`int a[6];` one dimensional array

`int b[2][3];` two dimensional array

Dimension  $\rightarrow$  Direction of measurement



`int c[3][4][2];` three dimensional array



`int a[10];`

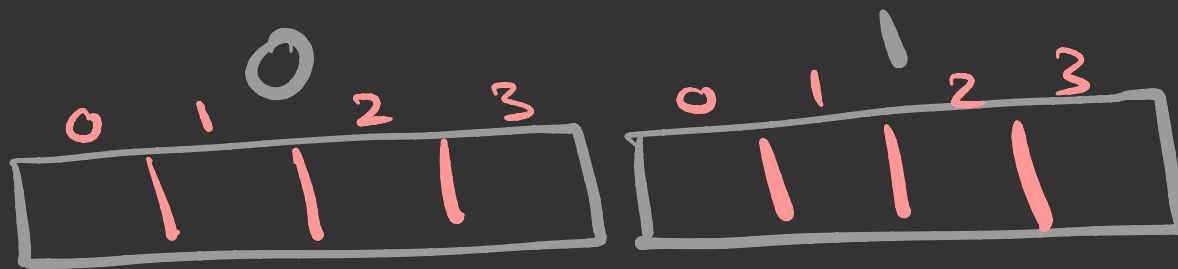
~~`int a[30];`~~

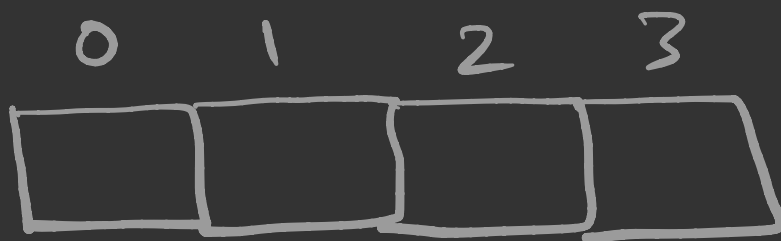
`int a[3][10];`

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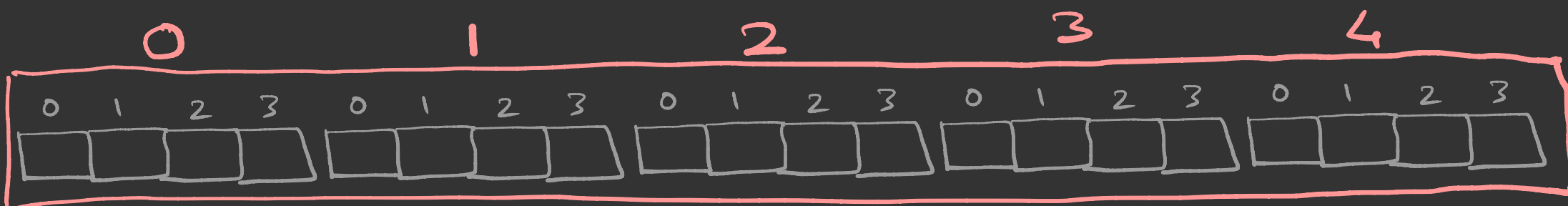
`int a[2][4];`

Array of Arrays

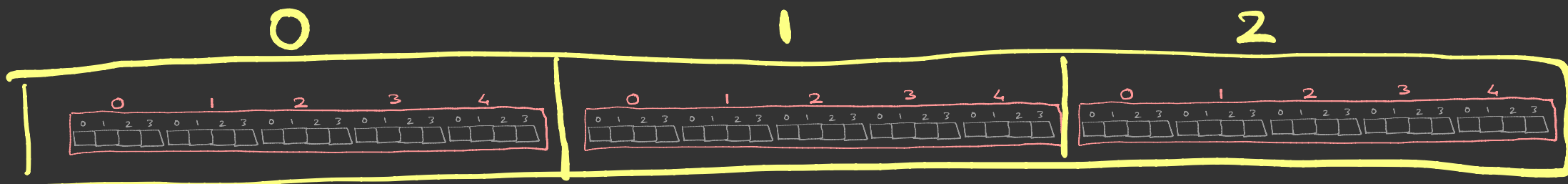




```
int a[4];
```



```
int a[5][4];
```



```
int a[3][5][4];
```

int a[2][3];

a[0][0]

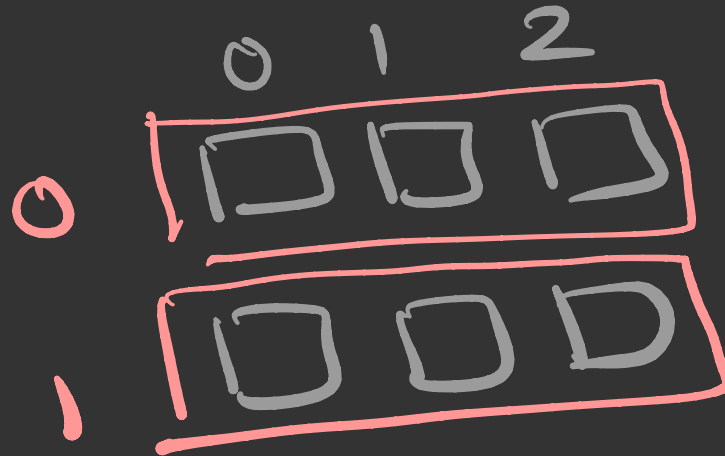
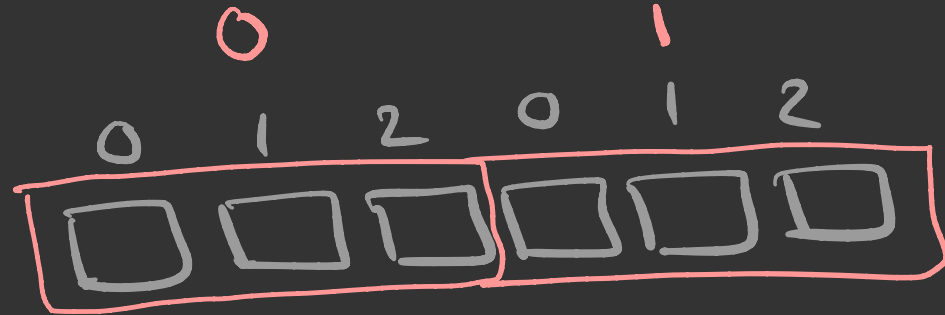
a[0][1]

a[0][2]

a[1][0]

a[1][1]

a[1][2]



```
int a[2][3];
```

```
for (i=0; i<=1; i++)
```

```
{
```

```
    for (j=0; j<=2; j++)
```

```
        scanf("%d", &a[i][j]);
```

```
}
```