

Creating A Rectangular 2D Array

1. Creating The Array Ref

=====

<data type> [][] <array_ref>; // most preferred

OR

<data type> <array_ref>[][];

OR

<data type> []<array_ref>[];

2. Creating The Actual Array

=====

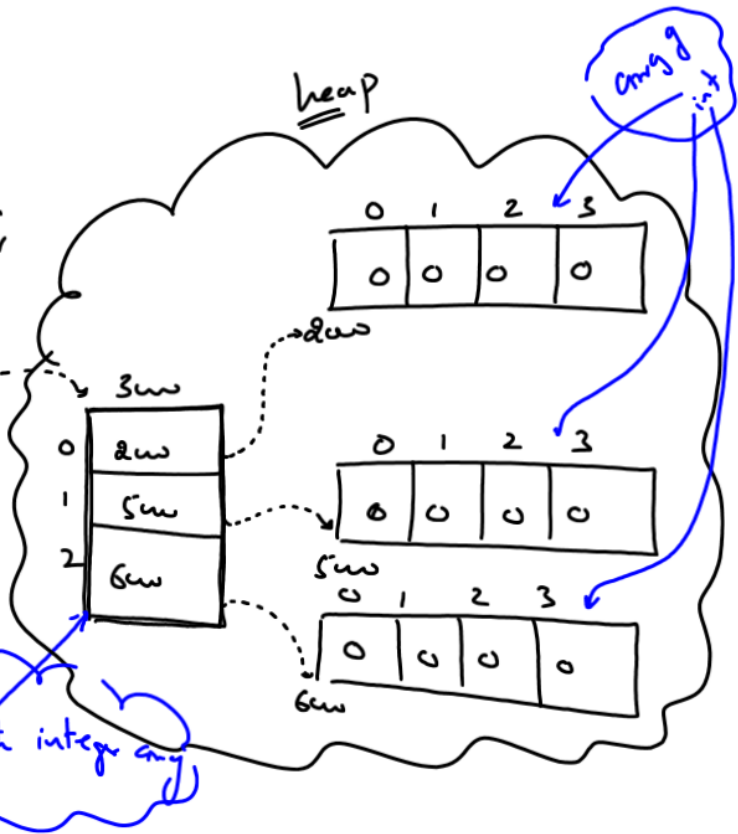
<array_ref>=new <data type> [row_size][col_size];

```
int [ ] [ ] arr;
```

```
arr = new int [ 3 ] [ 4 ];
```

arr is a reference
to an
array of
references

arr
references to integer array



```
arr[0][0] = 25;
```

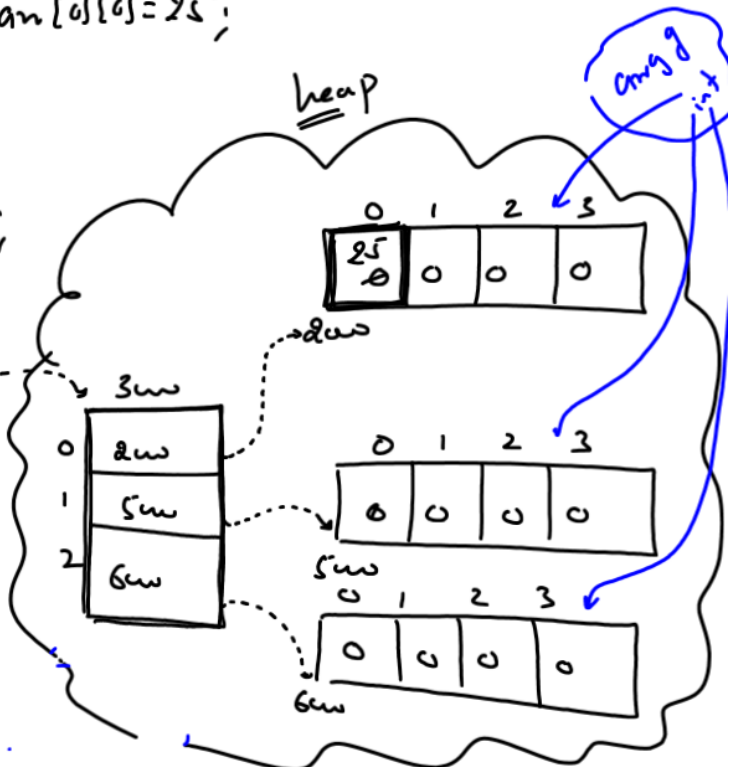
```
int [ ] [ ] arr;
```

```
arr = new int [ 3 ] [ 4 ];
```

```
SOP ( arr.length ); → ③
```

```
SOP ( arr[0].length ); → ④
```

```
SOP ( arr[0][0].length ); X
```



int a = 5;

X $\text{SOP}(a.\text{length});$