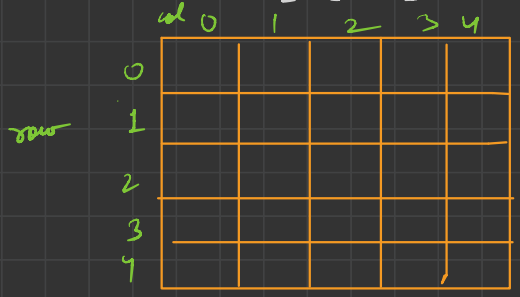
Dynamic Memory Allocation [Part-2]

int arr[5][5]



int arr[10]

or

dynamic

int *arr = new int[10];

Variable / User value at run time

int *arr = new int[n];

int m
int n

rows
cols

run time

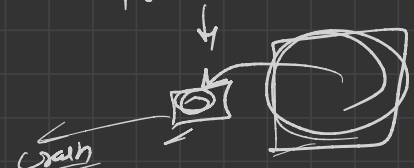
2D array -> ?

int m, n;

cin >> m >> n;

int arr[m][n];

int arr[n] -> ✗ BAD



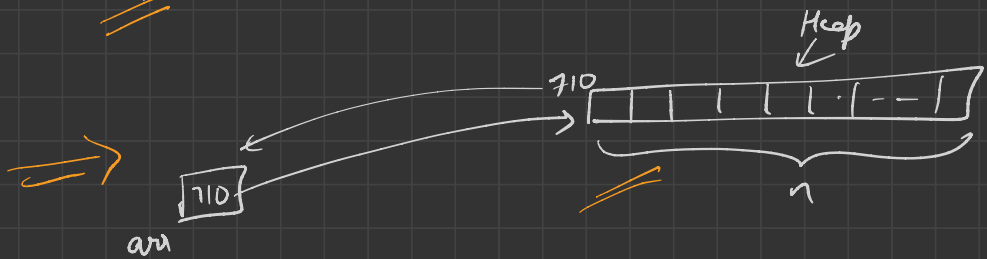
BAD ✗

Dynamic Memory

→ 2D array Req.

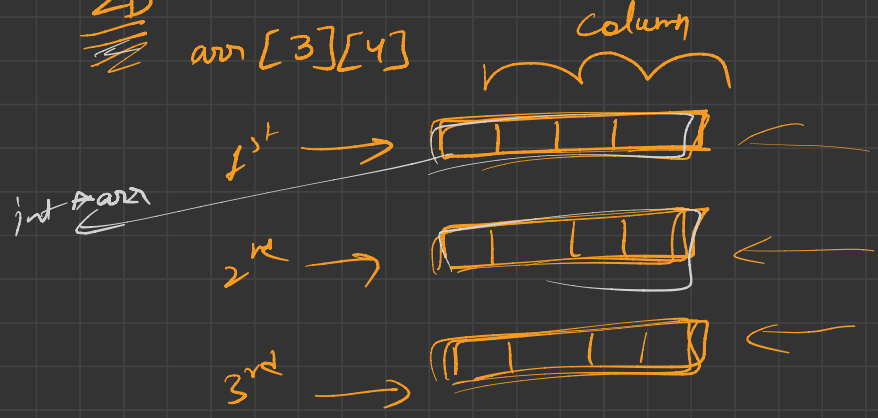
User i/p [runtime]

```
int * arr = new int [n];
```



2D

arr [3][4]

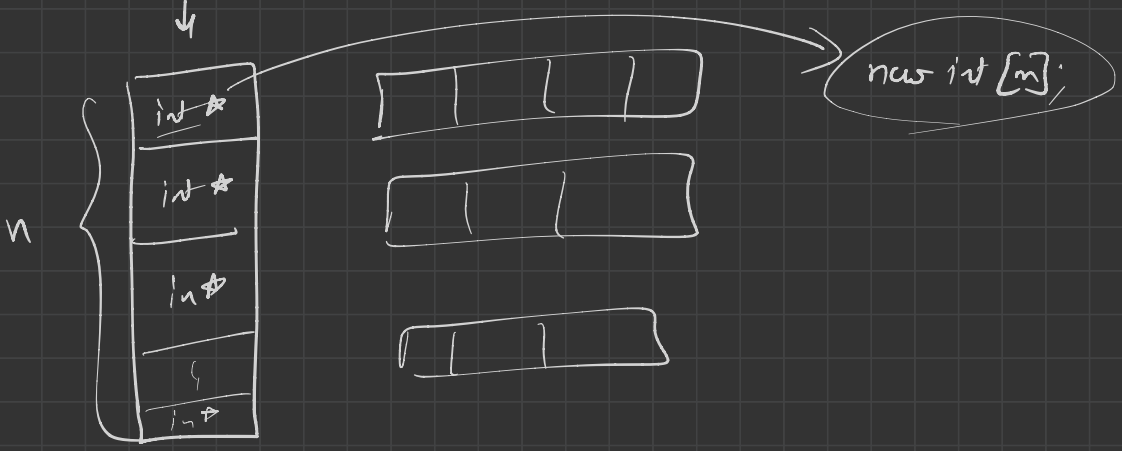


2D array

1D by

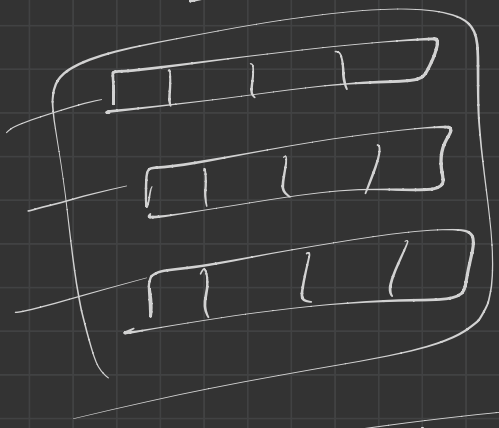
```
int* arr = new int[n]
```

```
int** arr = new int*[n];
```



2D

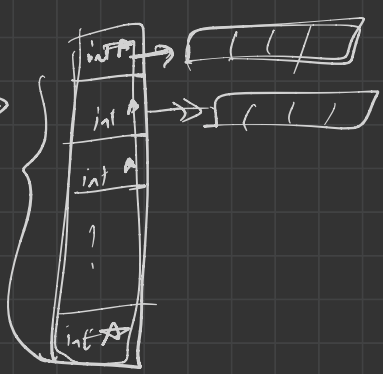
arr [n] [n];



1D

int * arr = new int [n]

int ** arr = new int * [n];

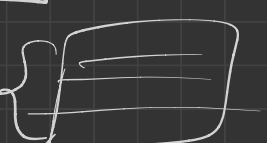


For ( )

{

arr [i] = new int [n];

}



2D creation done

→ Heap → memory wise

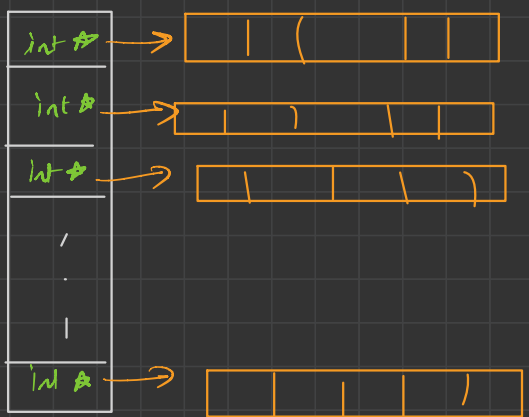
↳ Kaam jab hogaya

↓

memory free (manually)

2D :- Visualisation

arr



Homework :- Jaggered Array

↳ dynamic memory Allocation