

Syntax for dynamic 2D arrays in C++

Recall that a 2D array is basically a 1D array of pointers, where every pointer is pointing to a 1D array, which will hold the actual data.

```
int** grades = new int*[number_of_student];
```

*Good source to read more is here.

Memory allocation and deleting in C

- Allocate memory for dynamic array in C using malloc(): double *ptr=(double*)malloc(sizeof(double));
- 2) Realloc() is used to change the size of memory block: ptr=realloc(ptr, (count+1)*sizeof(double));
- 3) Delete pointers using free(): free (ptr)

Compiling C program

Gcc Lab.c

(instead of g++ Lab.cpp)

Don't forget the headers

- #include "stdio.h"
- #include "stdlib.h"