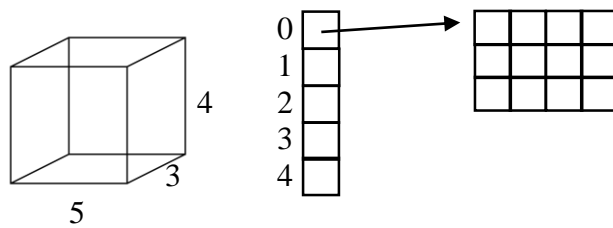<u>Designing Classes</u> – Basis for OOP (Object-oriented programming)

```
int[][][] Box = int[5][3][4];
```

All arrays are stored in RAM in row major order.

^
Consecutive elements of the rows in the array are contiguous in memory

Define ADT for our class:
Abstract Data Type is an outline of what your class will affect and how it might be built.

(CSC 205 OOP Review: The CalenderDate Class)
Actions (Methods must be public) | <u>How it's built</u>
    daysintMonths( ) | private variables

date1   methods   public

Address stored in   day1
date1 bucket   month1   private
       year2016

         address in RAM

date2   methods   public

this   day1
Prints by default. The   month1   private
address stored within an   year2016
object `var`. All objects
like arrays get pass-by reference.