

DSA through C++

## Dynamic Array data structure



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# Agenda

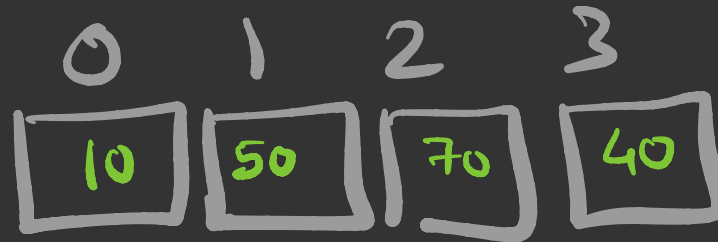
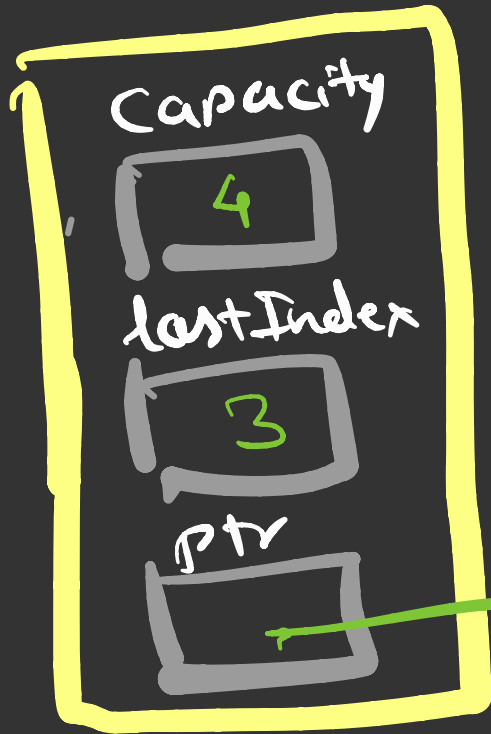
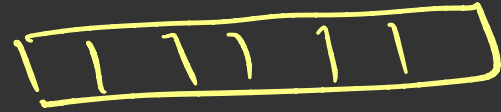
- ① Introduction to Dynamic Arrays
- ② doubleArray()
- ③ halfArray()
- ④ Array vs Dynamic Arrays

# Introduction to Dynamic Arrays

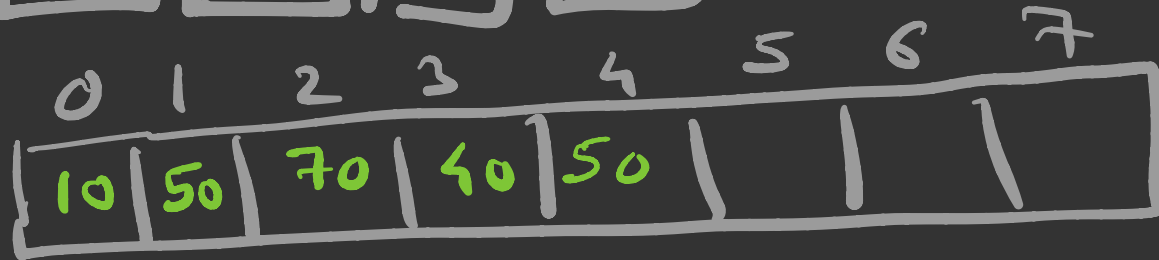
Array obj:



Fixed Size



temp



## double Array()

When to grow array?

You are trying to insert or append data in an array and array is full.

halfArray()

When to call halfArray?

You are trying to delete a data from the array. After successful deletion, if array is half filled then call halfArray()

# Array vs Dynamic Array

Array can't grow  
or shrink

Dynamic Array can  
grow or shrink