

DSA through C++

Dynamic Array data structure



Saurabh Shukla (MySirG)

Agenda

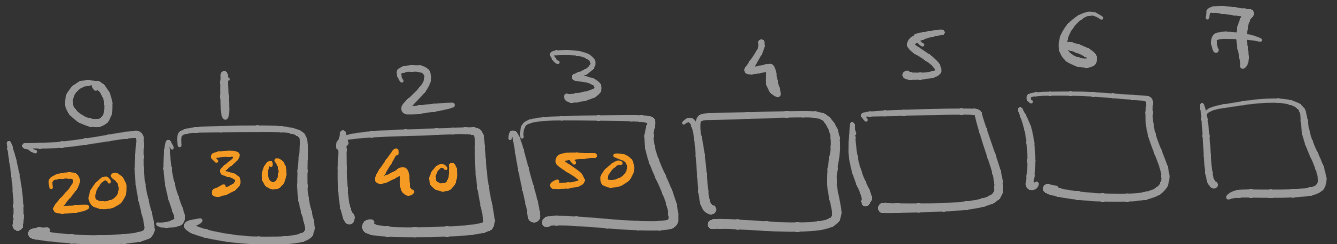
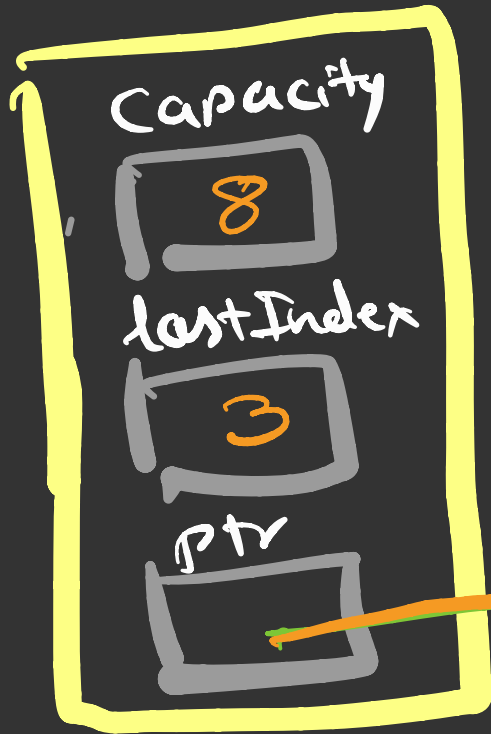
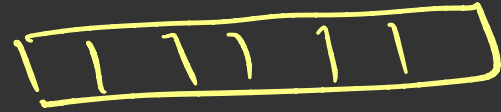
- ① Introduction to Dynamic Arrays
- ② doubleArray()
- ③ halfArray()
- ④ Array vs Dynamic Arrays

Introduction to Dynamic Arrays

Array obj:



Fixed Size



double Array()

When to grow array?

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

Capacity



last Index



ptr



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