

DSA through Java

Dynamic Array data structure



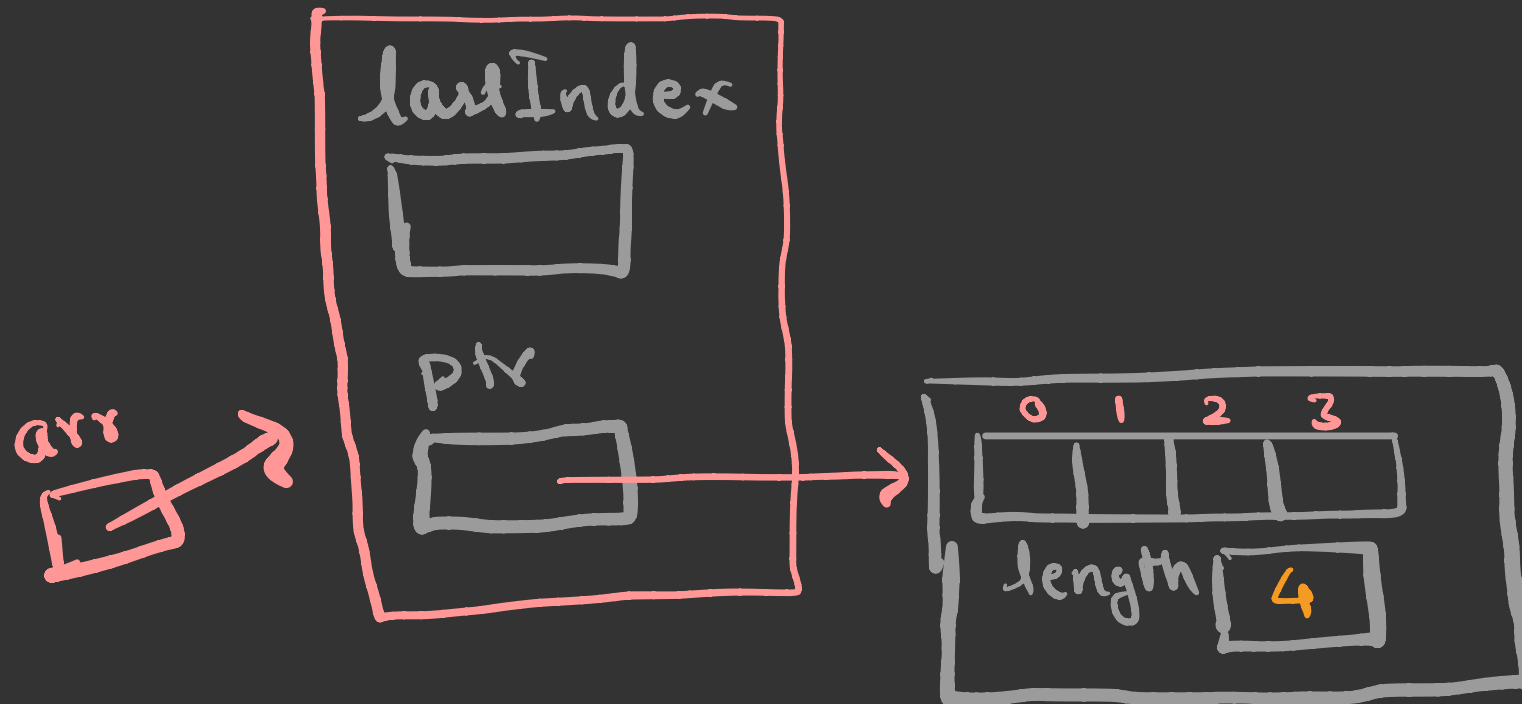
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Agenda

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

Introduction to Dynamic Arrays

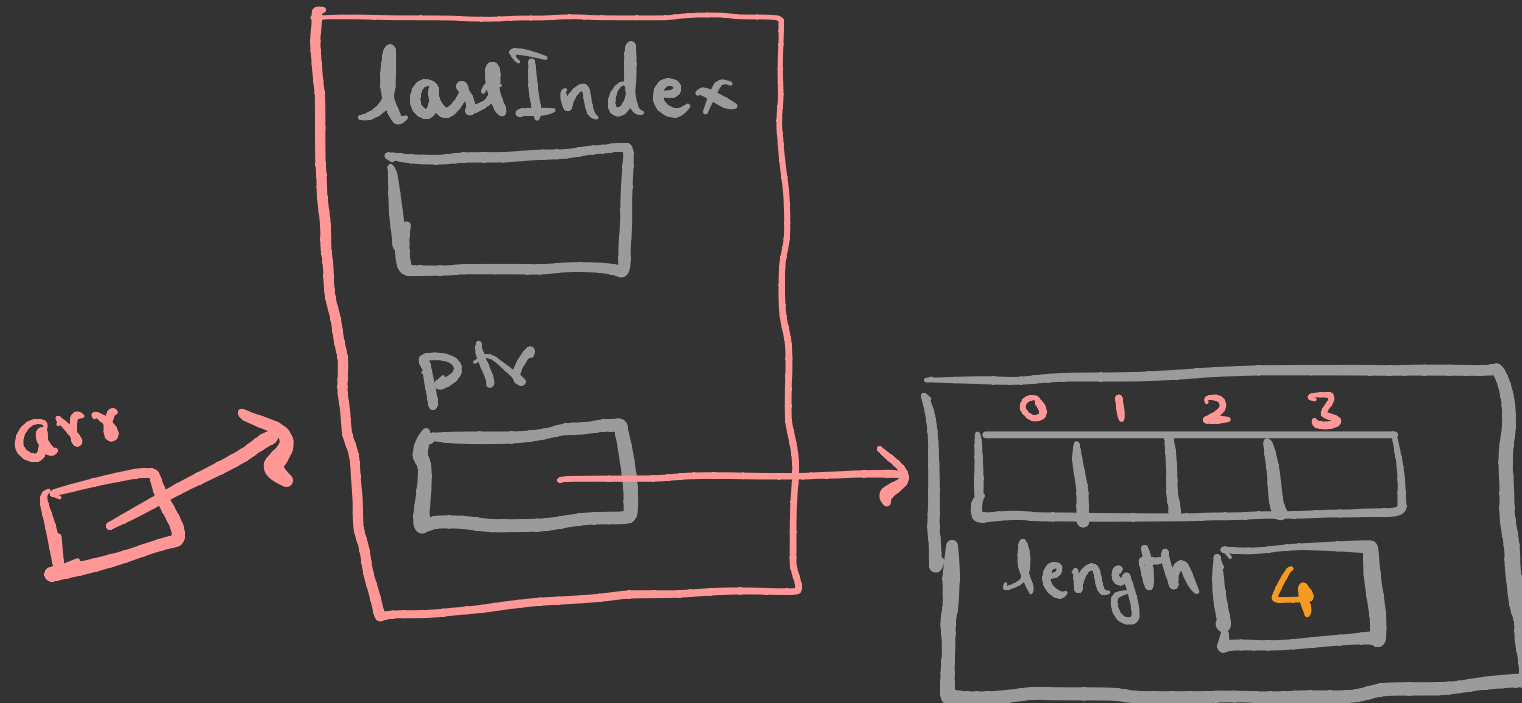
Array arr = new Array(4);



doubleArray()

when to grow array?

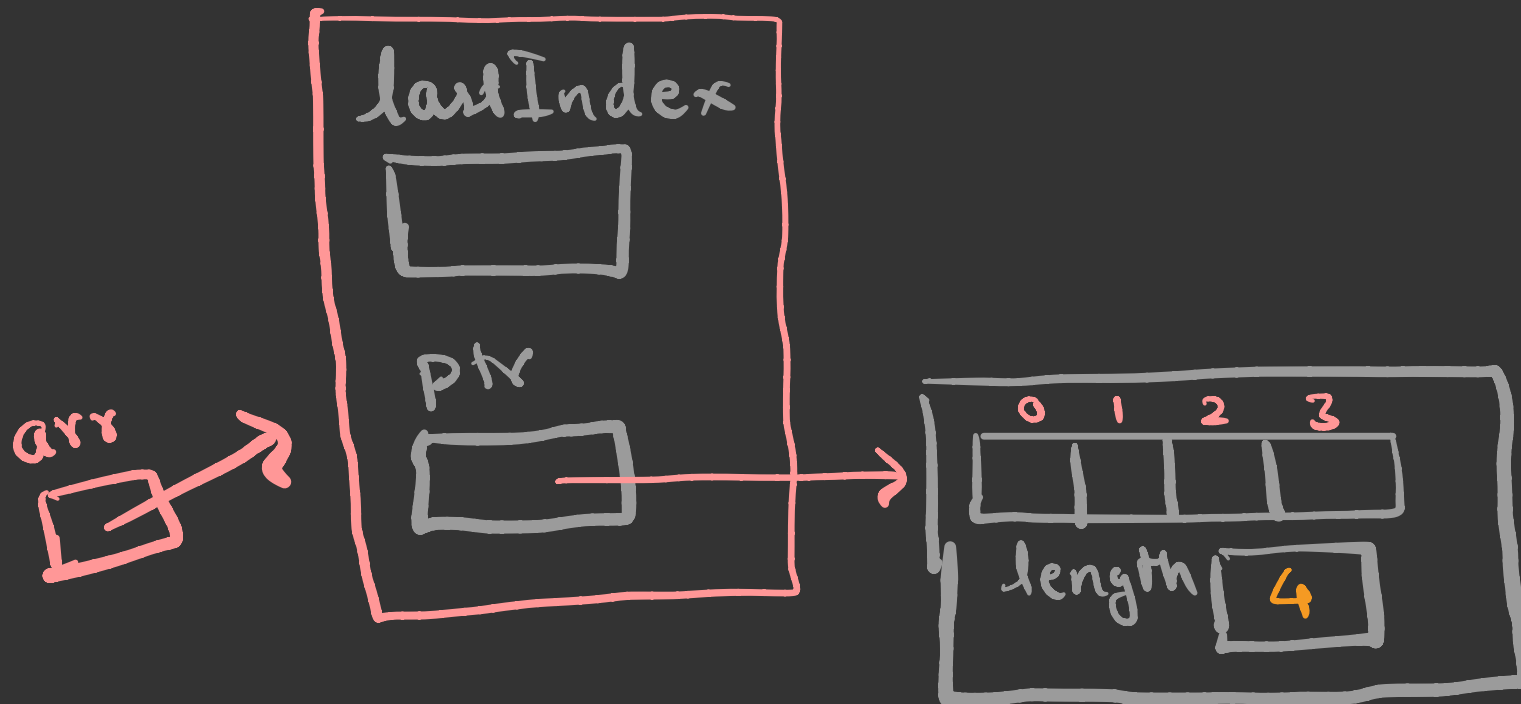
you are trying to insert or append data in array and array is full.



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 and
shrink