

Scenario 3: Print all Prices

↳ we will traverse in whole array
ca will print every value
→ for prices in stock:
print(prices)

↳ so for n entries: For loop will run
 n times

Array Traversal → $O(n)$

↳ complexity is order
of n .

Scenario 4: Insert new price 284 at index 1

⇒ stock.insert(1, 284)

↳ so after inserting 284 at 2nd location
it will shift all elements one position
a head so

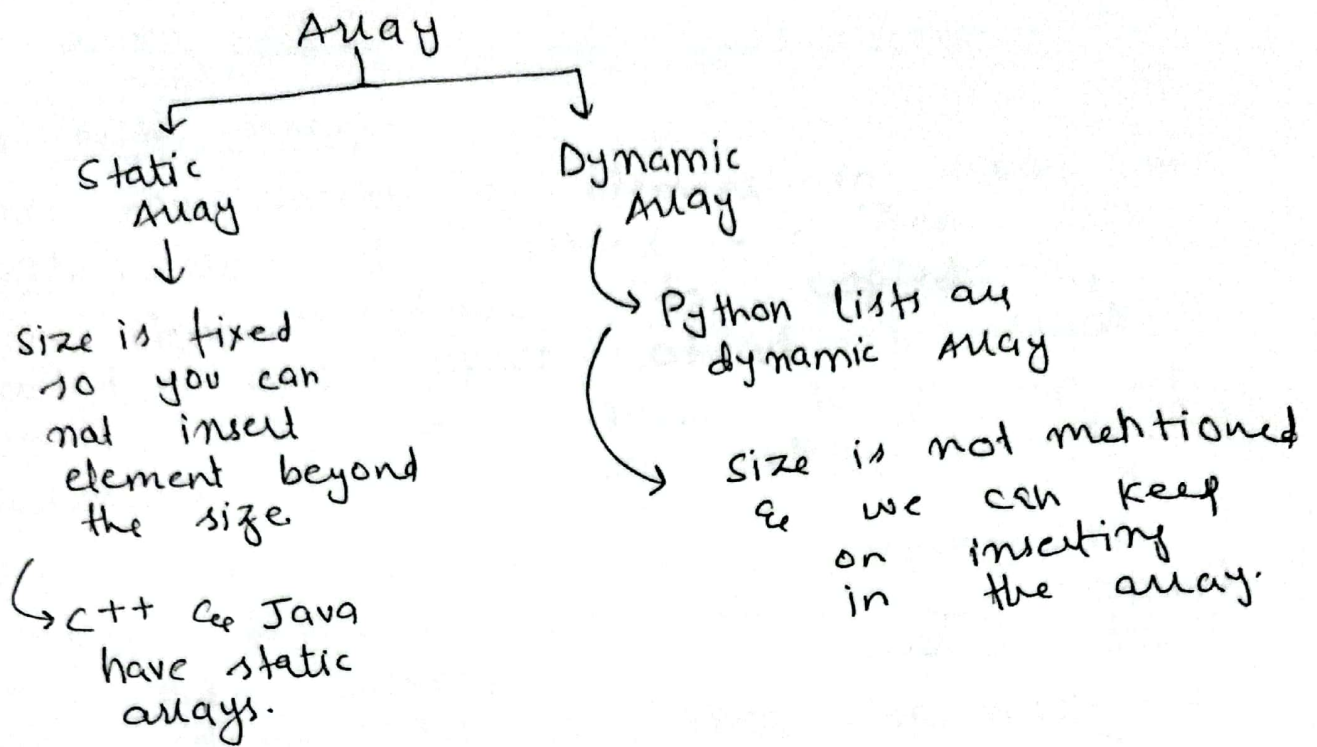
Array Insertion → $O(n)$

Scenario 5: Delete element at index 1

⇒ stock.remove(1)

↳ so after removing it will shift
lower numbers up by 1 so

Array deletion → $O(n)$



Dynamic Array

↳ so basically when we make a dynamic array CPU gives us the limited size of (e.g 10) initially. After filling all the space & if we enter 11th element it will copy all the elements and will paste in new location that can be double of first. (So this process keeps on happening).

→ This is known as Geometric Propagation.