

DATA STRUCTURES

Linked List

#Lockdown continues

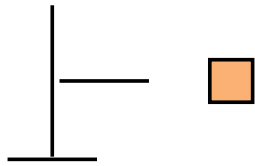
#Stay At Home

Prince agarwal
(By Prince Agarwal)
[" Hello World "]

Hello world

DATA STRUCTURES

Linked List in C++



Linked List is a linear data structure
But elements are not stored at a contiguous location

Like Array, We can store data in contiguous Memory Location

Int arr [] =

11	2	-3	4	-10
----	---	----	---	-----

OR _____

Int arr [5] ;

11	2	-3	4	-10
----	---	----	---	-----

Hello world

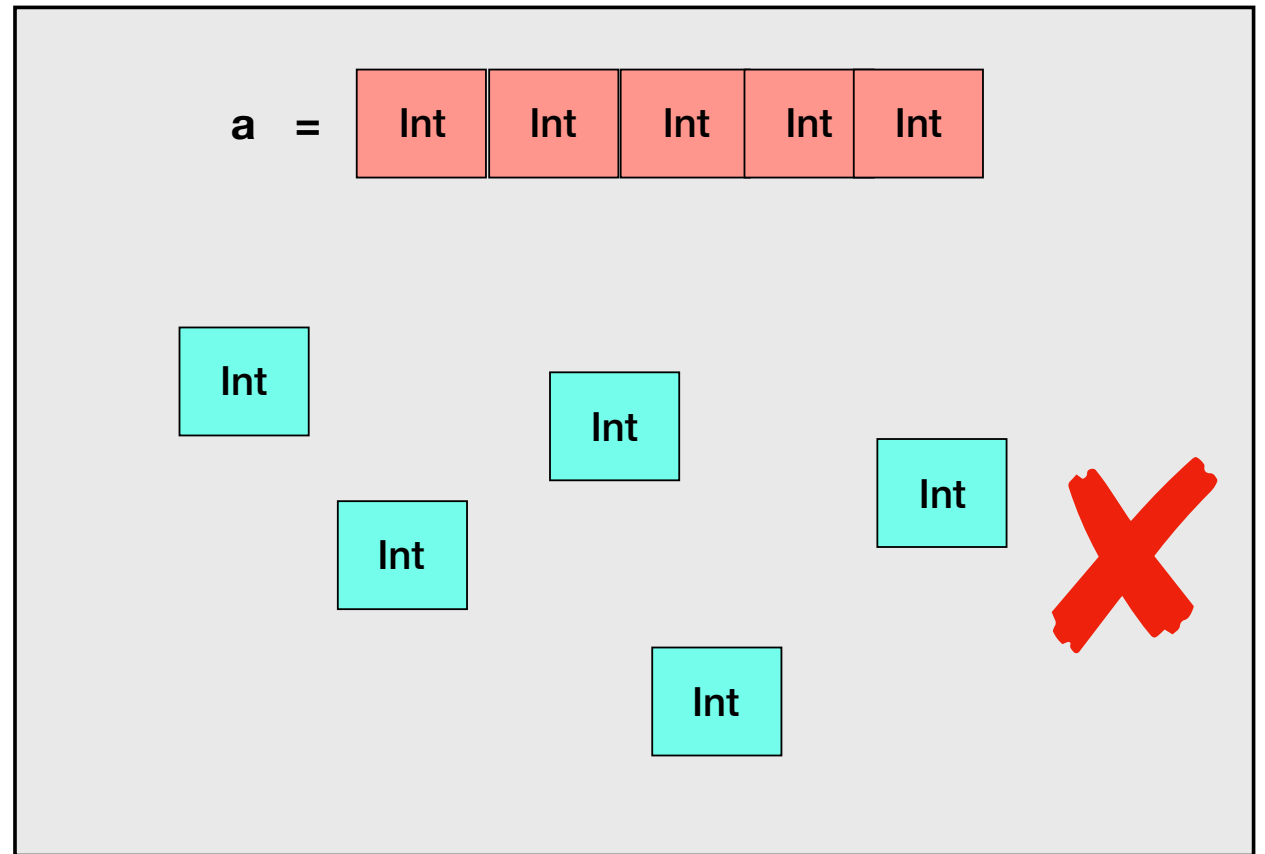
DATA STRUCTURES



Key concepts :-

`Int a[5];`

RAM



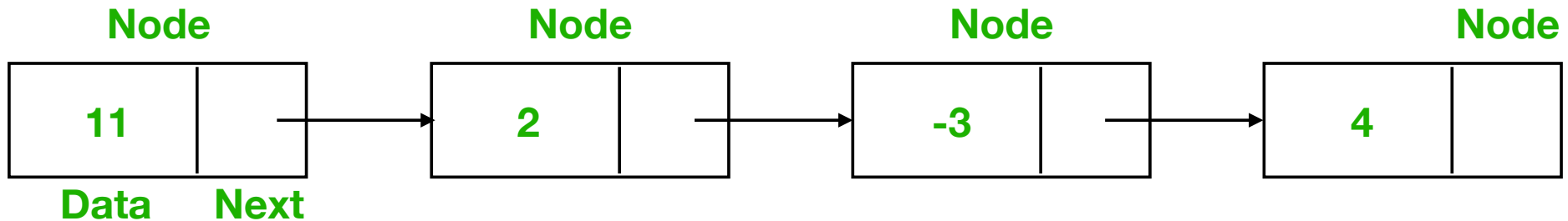
Hello world

DATA STRUCTURES

Linked List in C++

11	2	-3	4
----	---	----	---

Linked List is a linear data structure
But elements are not stored at a contiguous location



```
struct Node {  
    int data;  
    Node *next;  
};
```

This is the basic element of
Linked List

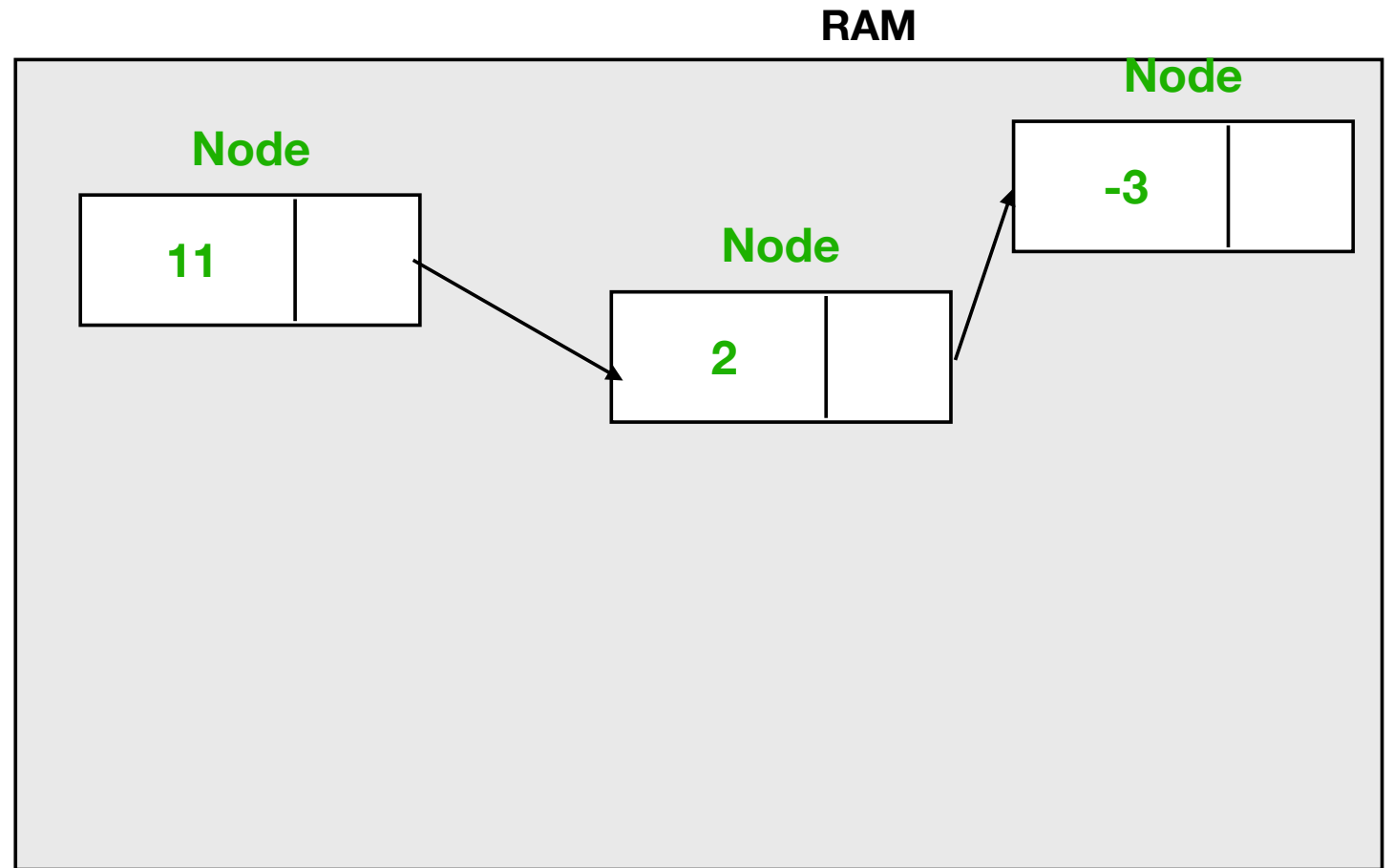
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DATA STRUCTURES



Key concepts :-

Linked List



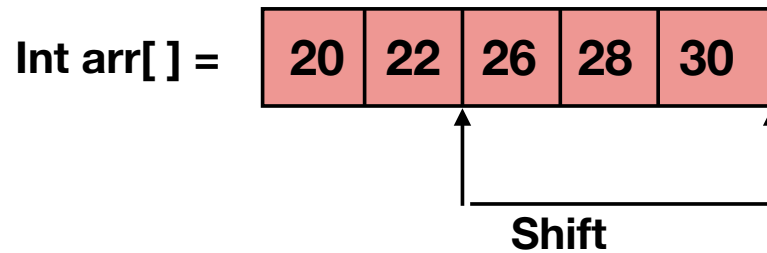
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Second, Problem with Array

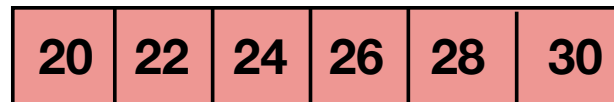
Insertion of Element is expensive

Lets suppose, Take a Sorted Array



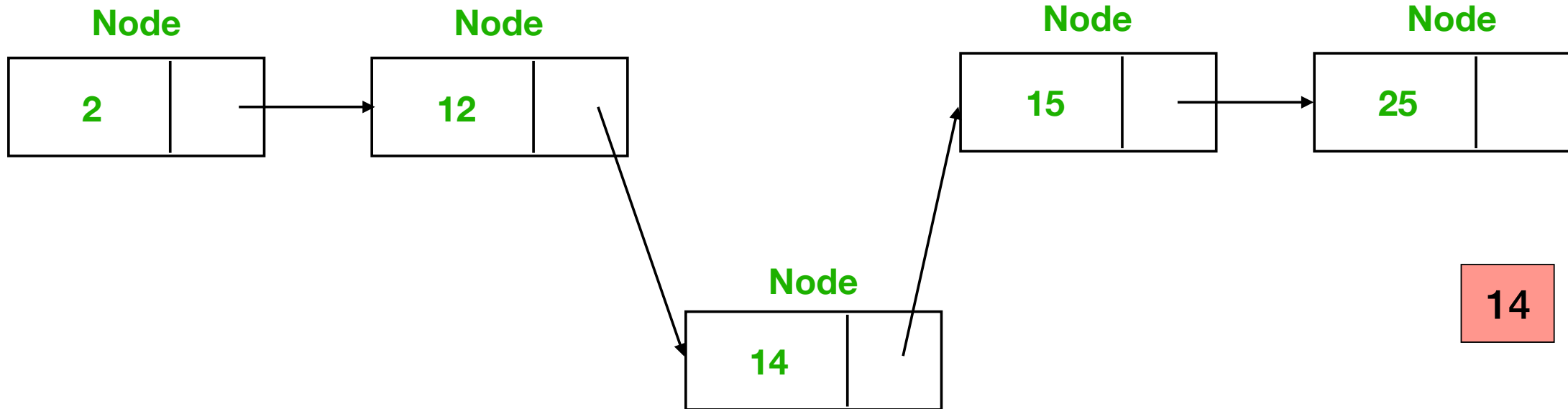
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Updated Array will be :



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DATA STRUCTURES



DrawBacks of Linked List :

- 1) There is no Random Access in Linked List
Like, In Array `arr[3];`
- 2) Extra memory space for Pointer

Hello world

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Hello World

*“ If you feel any problem then comments in my video
I will reply as soon as possible “*

- Prince Agarwal

Hello world