

## Contents

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## 1.Static Array

- Static arrays are allocated memory at compile time.
- Size is fixed.
- Located in stack memory space.
- Eg. : `int array[10];` //array of size 10
- Doesn't have any pointers

Allowed operations:

- `Get(i)`: returns the value of (i) index
- `Set(i,val)`: set the value val to the index i
- `Size()`: return the size of the array

## 2.Dynamic Array

- Memory is allocated at run time.
- Size is not fixed.
- Located in Heap memory space.
- Eg. : `int* array = new int[10];`
- Has two pointers size and capacity

Allowed operations:

- `Get(i)`: returns the value of (i) index
- `Set(i,val)`: set the value val to the index i
- `Pushback(val)`: add val to the end of the array
- `Remove(i)`: remove element at index i
- `Size()`: return the size of the array