

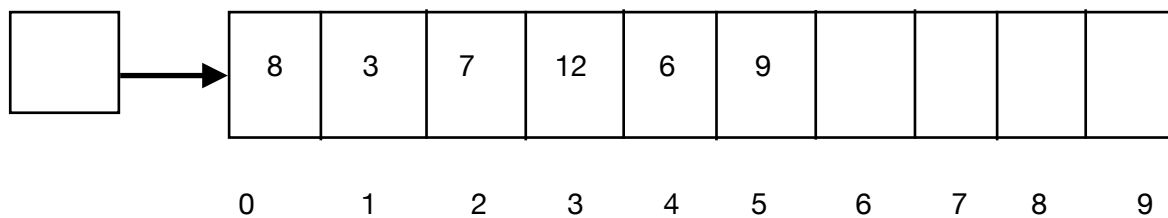
Inserting in an Array

- First consider the following array as an example

Size = 10

Length = 6

A



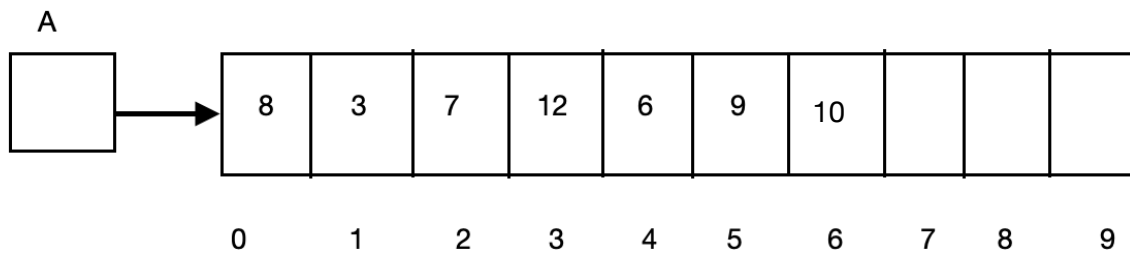
- For **displaying** the elements

Syntax

```
for( i= 0; i < length; i++ )  
{  
    print( A[ i ] )  
}
```

- **Add(x) / Append (x)** : adding an element at the end of an array that is adding in the next free space

Size = 10
Length = 7



Syntax

```
A[ Length ] = x ;
Length++;
```

- **Insert(index, x)** : It takes index and element, meaning to insert an element in a given index
- If the space is free the value will be inserted automatically , but if the space is already taken by another element it must be moved to next space in order to create space for the new insert value

Syntax : Insert(4, 15)

```
for( i = Length; i > index ; i - -)
{
    A[ i ] = A[ i -1 ] ;
}
A[ index ] = x ;
Length ++;
```

A

