Data Structures

Searching Technique – Introduction

CODE FORTHINGS

Introduction

Introduction

What ?

Why ?

Introduction

Mr A

Mr B

library

Introduction

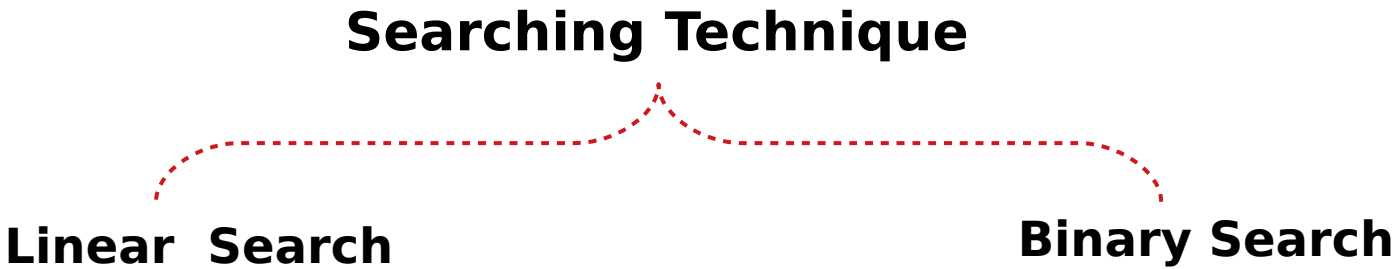
Mr A

Mr B

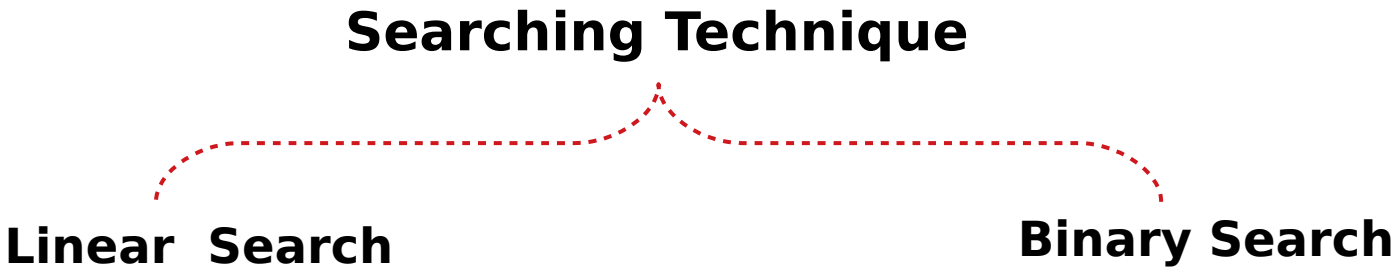
library

A Search Algorithm is a method of locating a specific item of information in a larger collection of data

Types

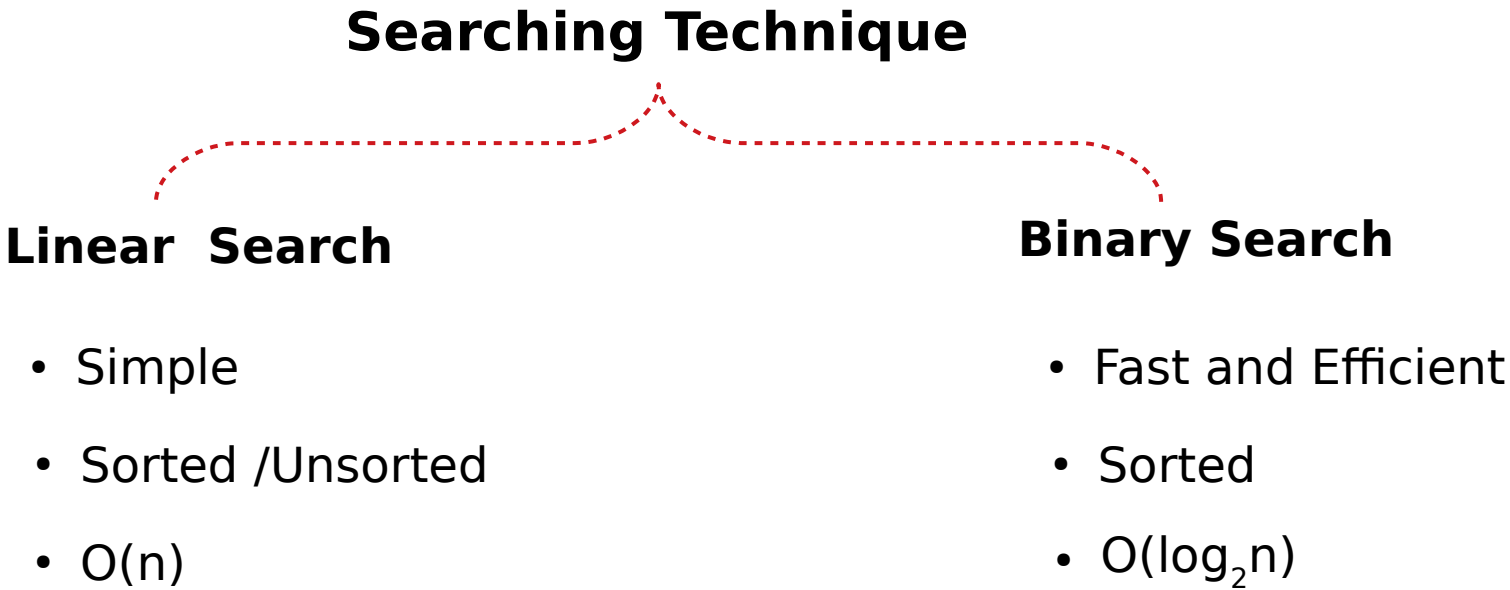


Types



- Simple
- Sorted /Unsorted
- O(n)

Types


Searching Technique
Linear Search
Binary Search
• Simple
• Sorted /Unsorted
• O(n)
• Fast and Efficient
• Sorted
• O(log2n)

Linear Search

- arr[SIZE]

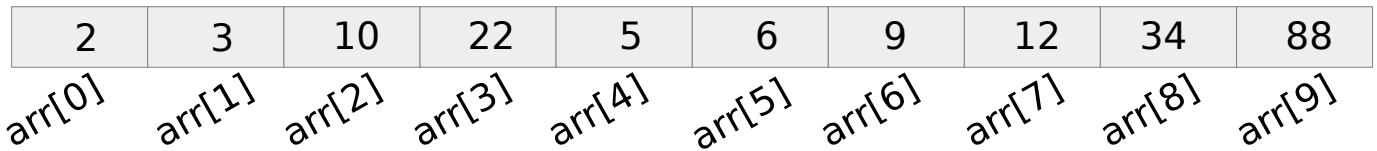
SIZE = 10

Linear Search

- arr[SIZE]

SIZE = 10

Key = 6

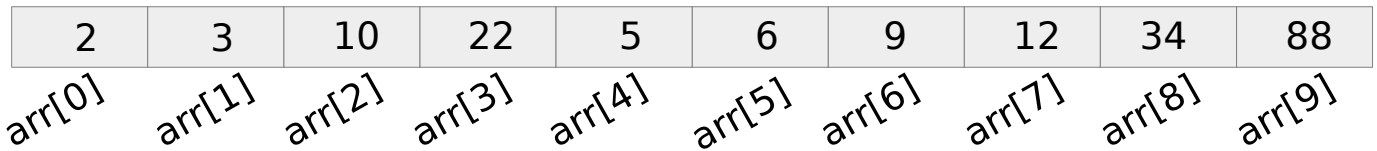


Linear Search

- arr[SIZE]

SIZE = 10

Key = 6



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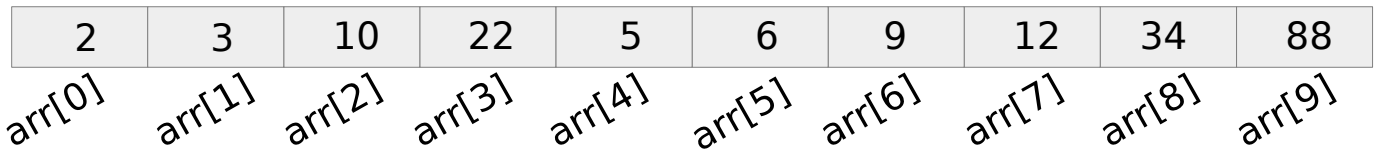

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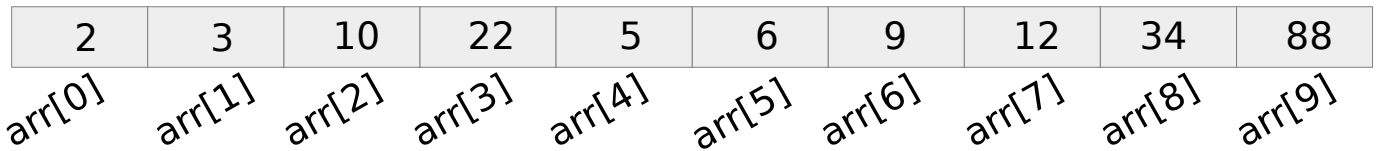
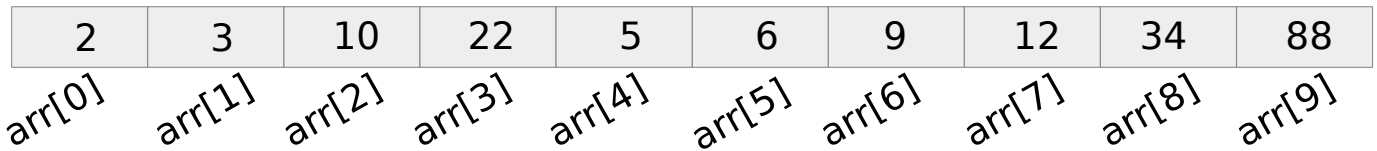


Linear Search

- arr[SIZE]

SIZE = 10

Key = 25



Linear Search

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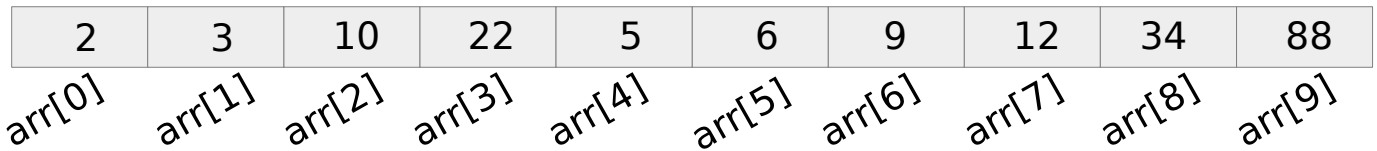
SIZE = 10

Key = 25



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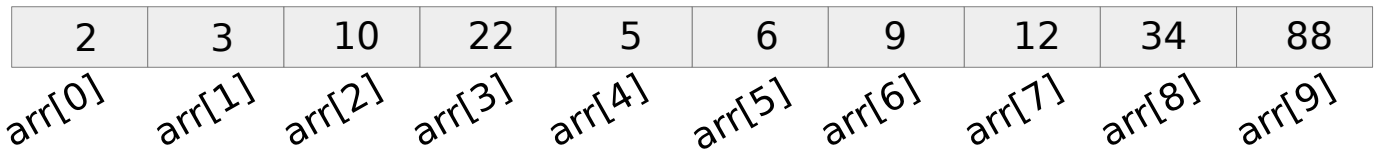

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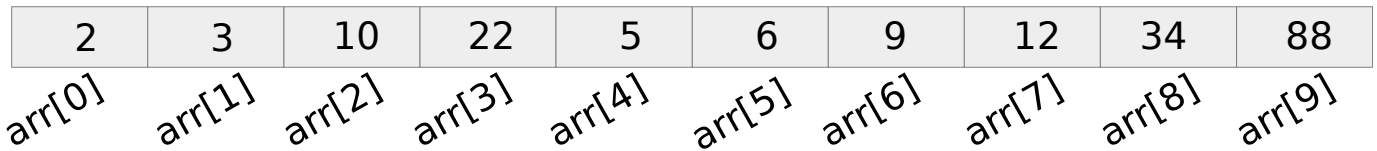

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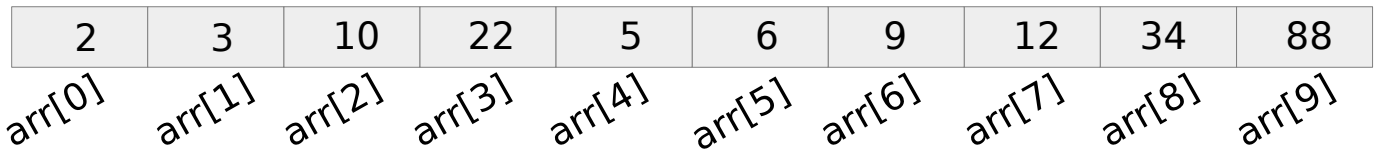

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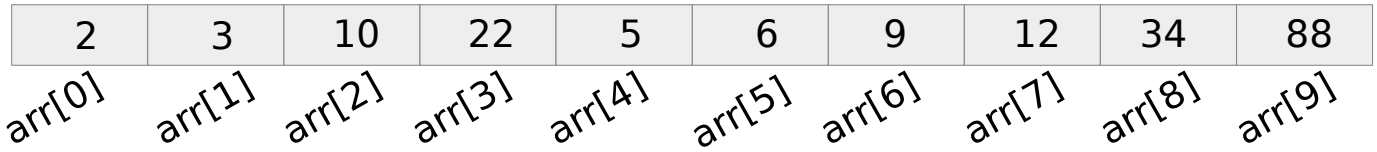

Time Complexity = No of Comparisions
= O(n)

CFT CODE FORTHINGS

Algorithm -Linear Search