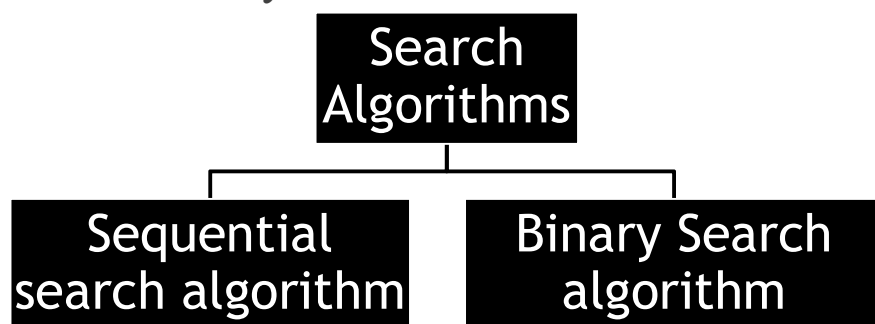


# Lab

## Basic Searching Algorithms

## Basic Searching Algorithms

- We will take three algorithms to sorting the data in Array.



## Binary Search algorithm example (1)

Guessing Game-Secret number is 82



First Guess : 50

Answer : Too low



Second Guess : 75

Answer : Too low

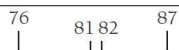


Third Guess : 88

Answer : Too high

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## Binary Search algorithm example (2)



Fourth Guess : 81

Answer : Too low



Fifth Guess : 84

Answer : Too high



Midpoint is 82.5, which is rounded to 82

Sixth Guess : 82

Answer : Correct

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## About Array library cont.

- A built-in data structure or algorithm should always be Some method is already exists in ArrayList Library:

BinarySearch	clear	copy
IndexOf	LastIndexOf	Sort
Reverse		

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## Assignment 4

- Follow next Array by using

1. Binary Search algorithm
  1. First time search for 62
  2. Second time search for -30
  3. Third time search for 130

3	15	19	26	39	48	62	70	90
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