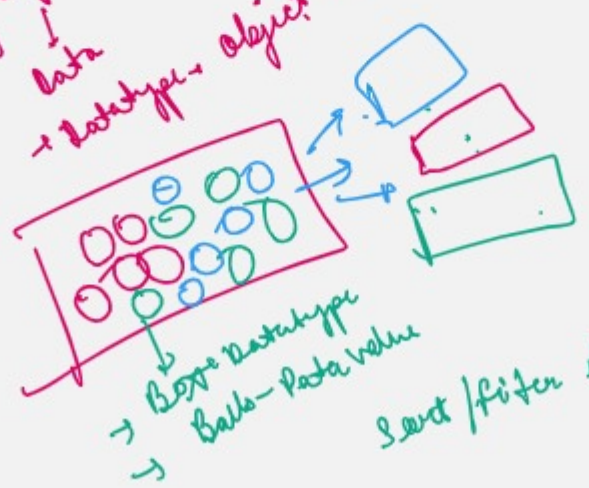


- Expectations
- Every one listen,
 - Go through recording, before lecture, make notes
 - Be interactive
 - Practice

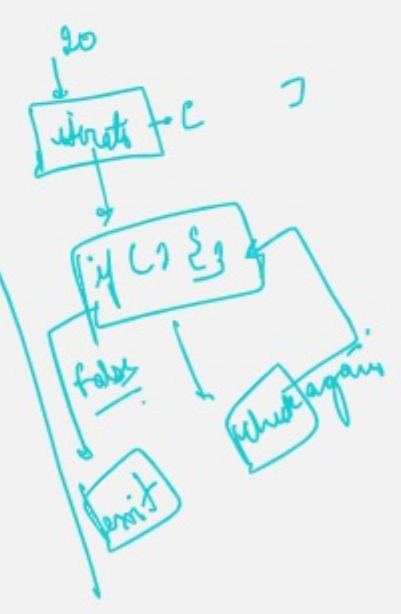
→ ['pink', 'red', 'orange', 'blue'] → colors

↓
Data
→ datatype array
→ {name: 'Kunal', age: 20}
↓
Data
→ datatype object



DSA
↓
Data Structure & Algorithms
→ operation, logics
→ procedure

Problem → search an element in an array
→ pseudo code / flowchart
• create an array
• input → element to be searched
• iterate over array
• if else to check, if element exist
• display index; found
(begin building)



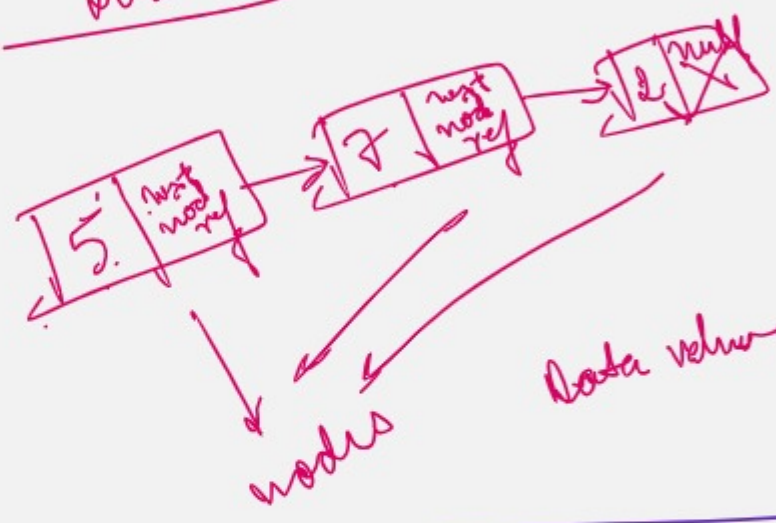
arr = [1, 2, 3, 4, 5]
x = 3
for (i = 0; i < arr.length; i++)
{
if (arr[i] == x)
{
return i;
}
}
return -1;

Java, python, php
C++, C++ -

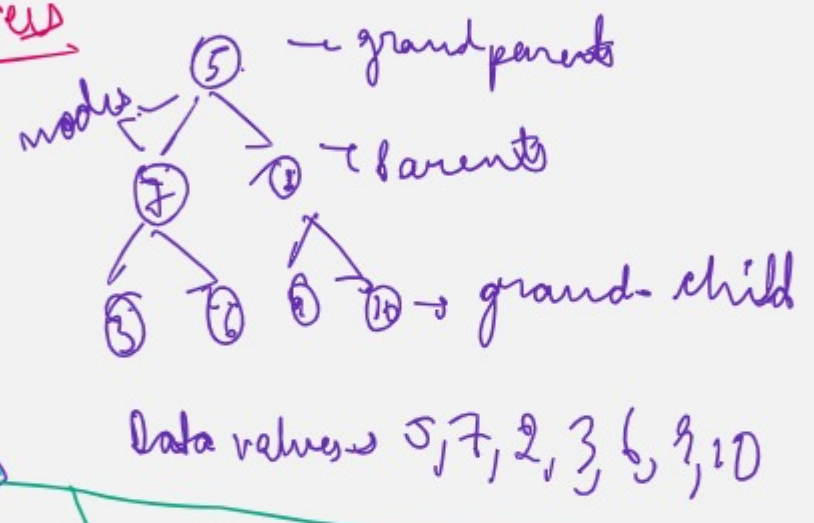
function Object {}

array, string, Map

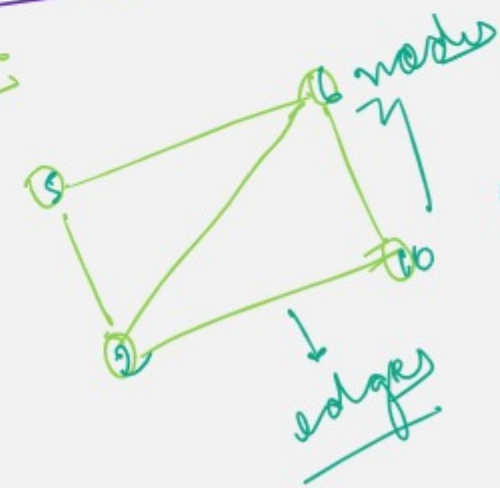
Linked List



Trees



graph



Data values: 5, 6, 2, 10

• Space complexity: $O(1)$

• Time complexity