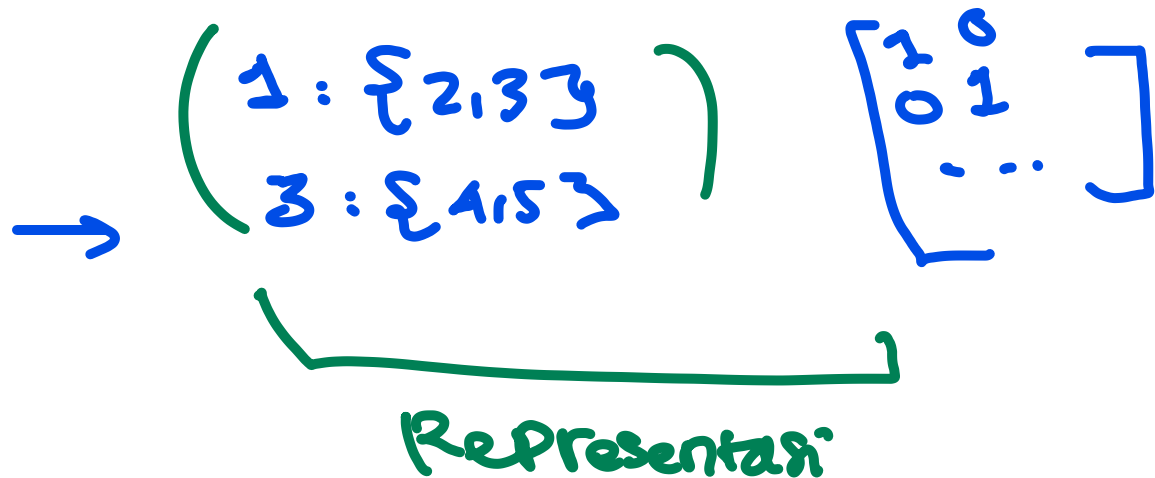
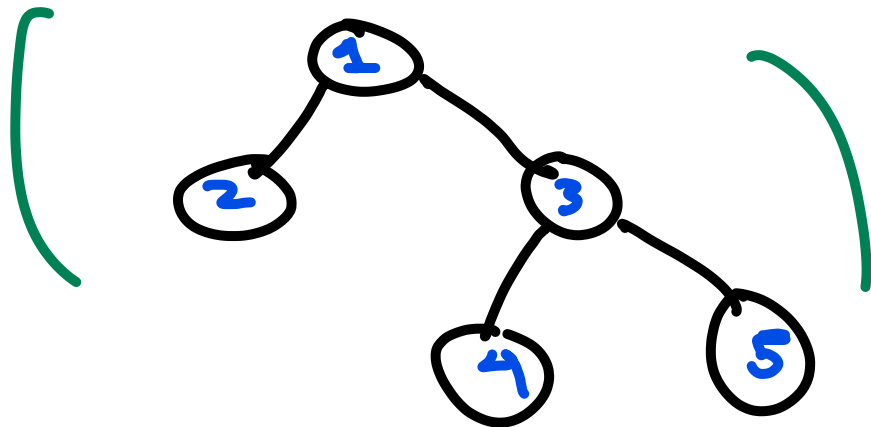


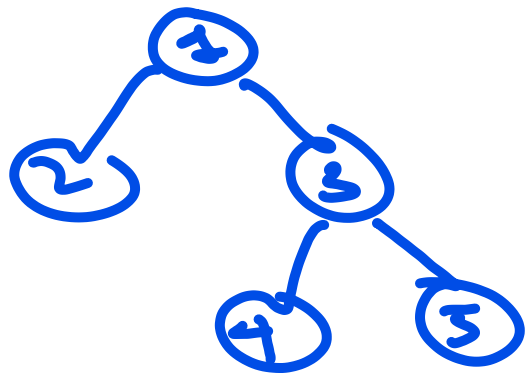
ADT

(Struct comprehension, Pointer)

Without ADT



With ADT



Tree {
 Left
 Right
}

interface

Map ⇒

Node
1

Left R
2

ADT



class
struct
dictionary

Data



Struct

Extrak fitur penting

Animal { object
 string name;
 int age;
}

Abstraksi

* atribut / property

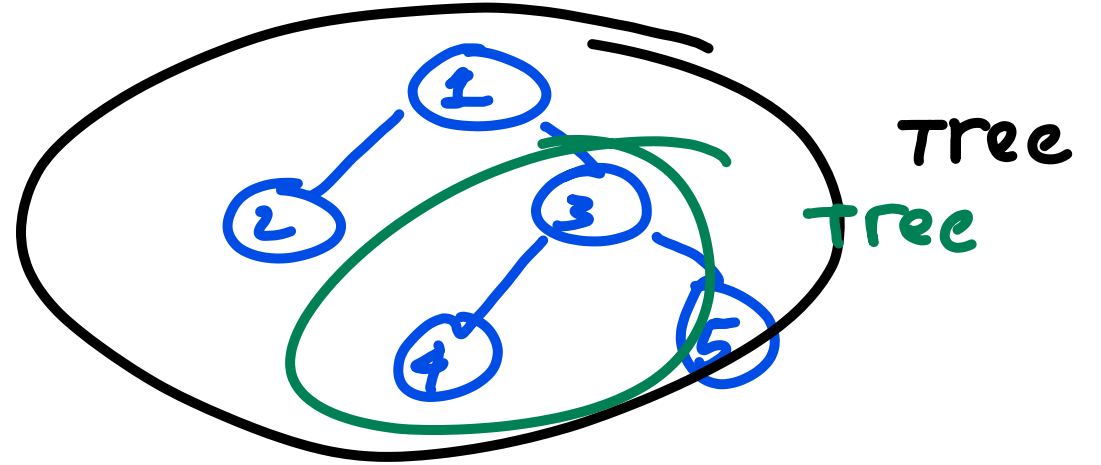
Behaviour \Rightarrow Method / Func

move()

sound()

exist() \rightarrow initiate() \rightarrow constructor()

decomposition
inheritance
Polymorphism

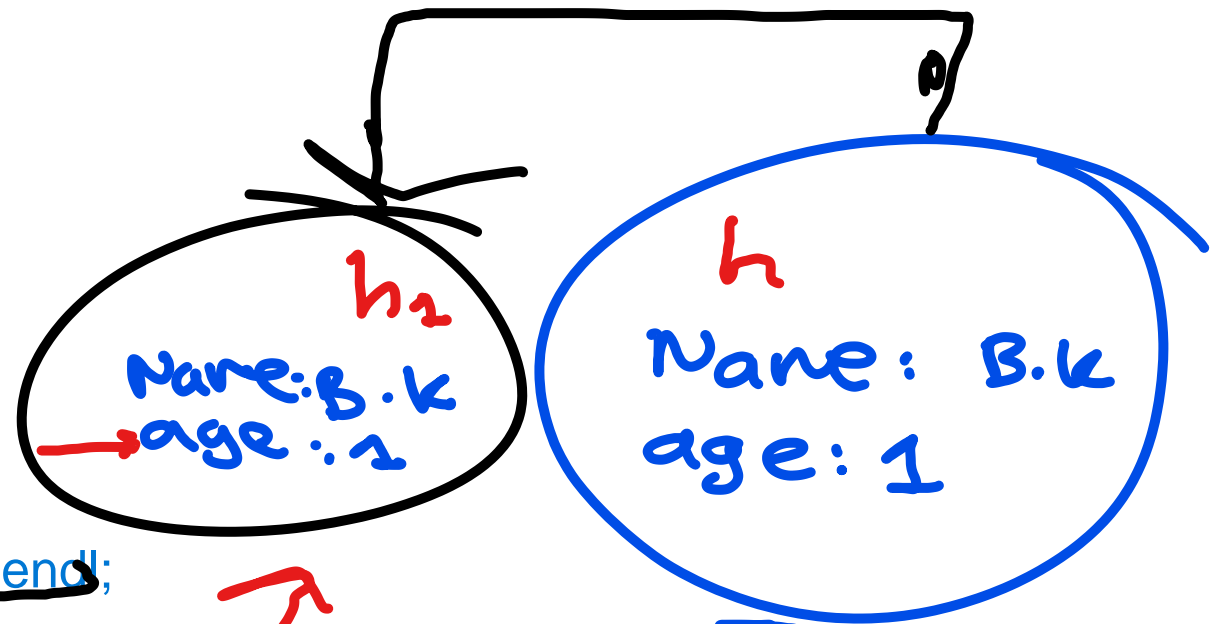


The main tree has a sub tree
↓ decomposition

```
void ultah(Human h){
    h.age++;
}
```

Pointer

```
Human bintang;
bintang.born("Bintang Krisnanda");
cout<<bintang.name<<endl;
cout<<"Usia sebelum"<<bintang.age<<endl;
ultah(bintang);
cout<<"Usia sekarang"<<bintang.age<<endl;
```



ultah (bintang)

$h = \text{bintang}$

$h.age++ \rightarrow \text{Kanan}$

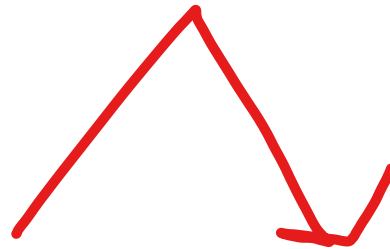
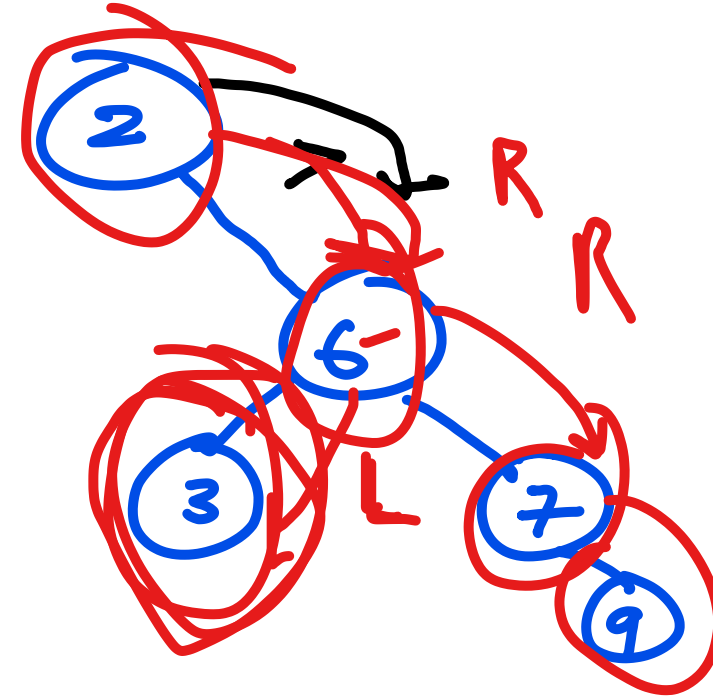
Binary Search Tree -> Left < Right

array = [2, ~~6~~, ~~7~~, ~~4~~, 3]

↓
root

Pre Order : 2 6 3 7 9

In Order :



Node

Node

Node

Node



