

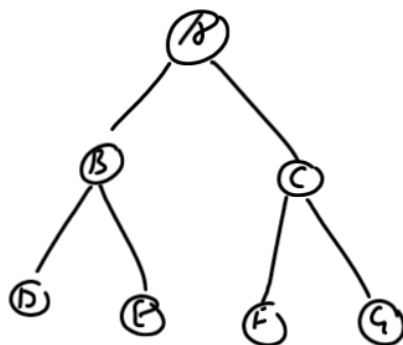
Representing A Binary Tree In Memory

as array
(static
repr)

as linked list
(dynamic
repr)

Using Array For Representing A Binary Tree

0	
1	A
2	B
3	C
4	D
5	E
6	F
7	G

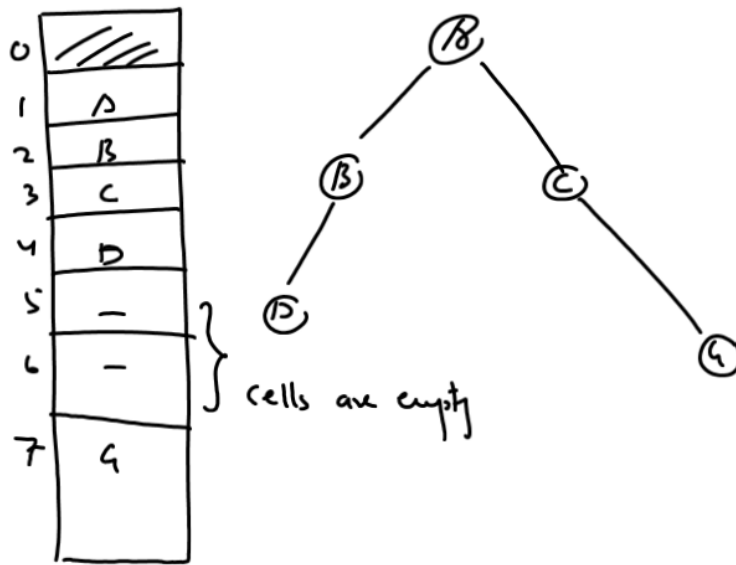


Index : i

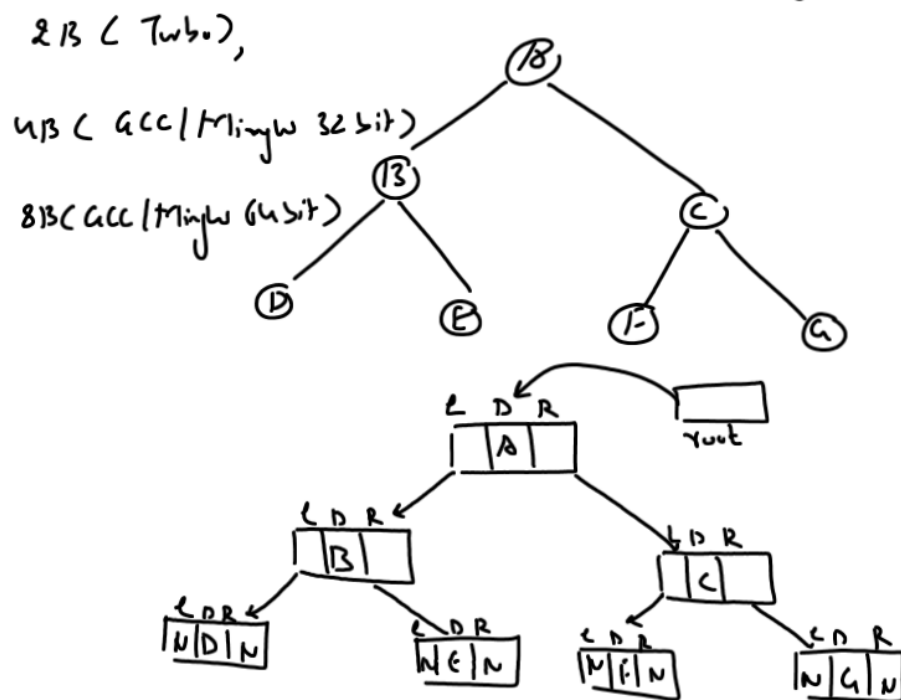
Parent : $i/2$

Left ch : $2 \times i$

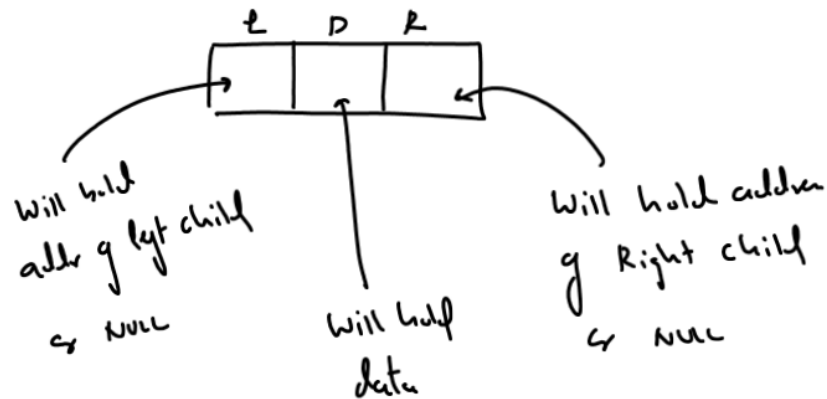
Right ch : $2 \times i + 1$



Linked Repr of Binary Tree



Creating Linked Rep of A BST



Creating A Binary Search Tree

```
struct bst
{
    struct bst *left;
    int data;
    struct bst *right;
};
void add(struct bst **,int);
int main()
{
    struct bst *root=NULL;
    add(&root,10);
    add(&root,5);
    add(&root,8);
    add(&root,20);
    add(&root,25);
    ....
    return 0;
}
```