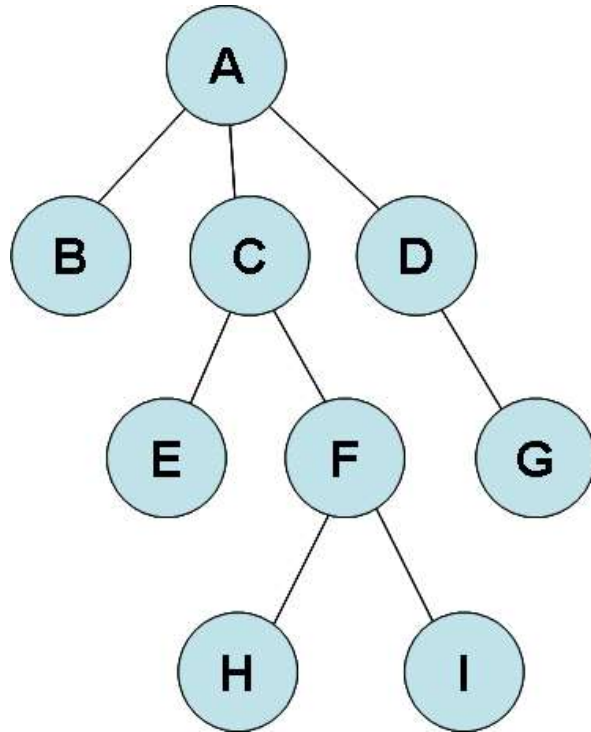




TREE



# TREE



- ① Degree of A
- ② Degree of D:
- ③ Degree of the Tree
- ④ leaf :
- ⑤ Internal node :
- ⑥ children of A
- ⑦ children of F
- ⑧ Sibling
- ⑨ ancestor
  - ancestor of H:
  - ancestor of G :
- ⑩ descendant
  - A의 descendant
  - C의 descendant
- ⑪ level (cf. Level of A : 0)
  - BCD:
  - EFG:
  - HI



# Binary Tree Representation

(1)  $a-b$

(2)  $a-b/c$

(3)  $(a-b)*c$

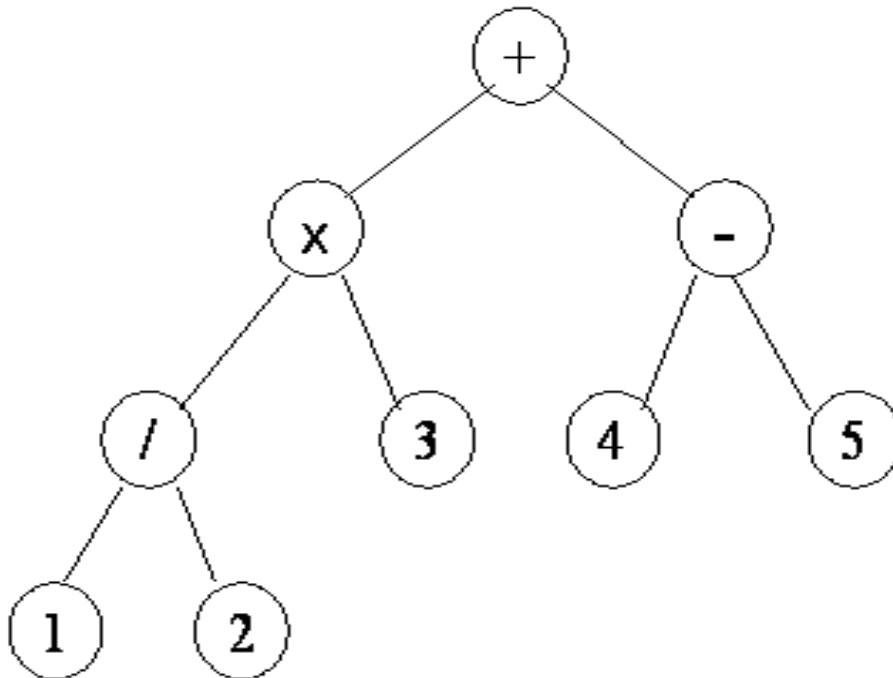


# Binary Tree Representation

0	1	2	3	4	5	6	7	8	9	10	11
-	a	b	-	c	d	-	-	-	-	e	f



## Array Representation of a Tree



0	1	2	3	4	5	6	7	8	9	10	11



## Tree 표현

1 2  
1 3  
2 4  
3 5  
3 6

	LeftChild	RightChild	자녀수	부모	level
0					
1	2	3	2		0
2	4		1	1	1
3	5	6	2	1	1
4				2	2
5				3	2
6				3	2