Lab 9
B-tree

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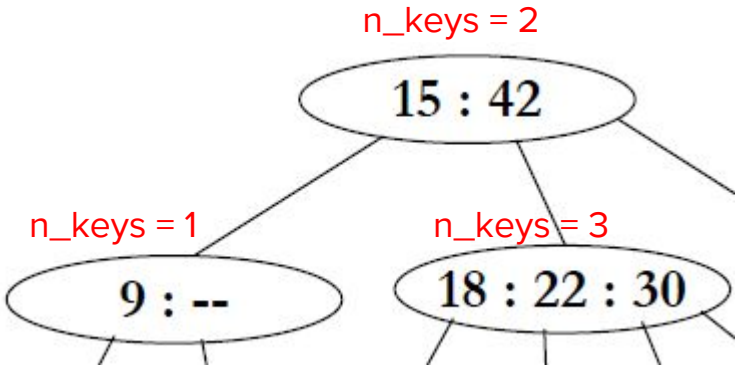
lab 9. B-tree

- **Data Structure Specification**

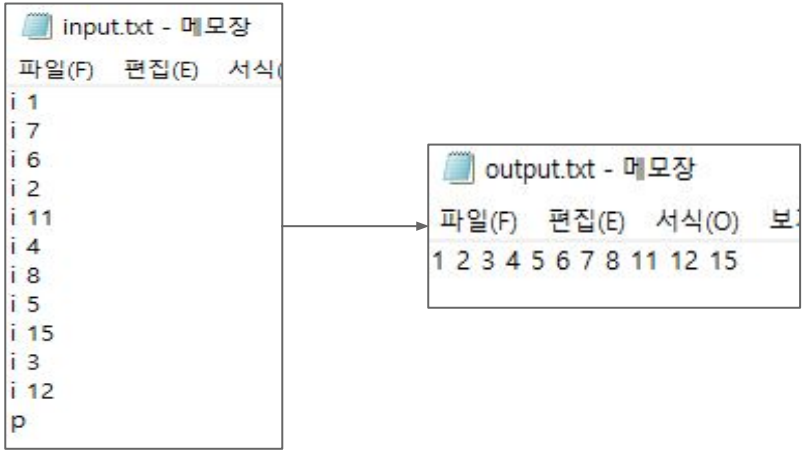
```
#define order 3

struct B_node
{
        int n_keys;    /*number of keys*/
        B_node *child[order];
        int key[order-1];
}
```

- **Function specification**
  - void Insert(int key)
    - insert key to B_tree
  - void Inorder(struct B_node *ptr)
    - Print the tree by inorder traversal.



lab 9. B-tree

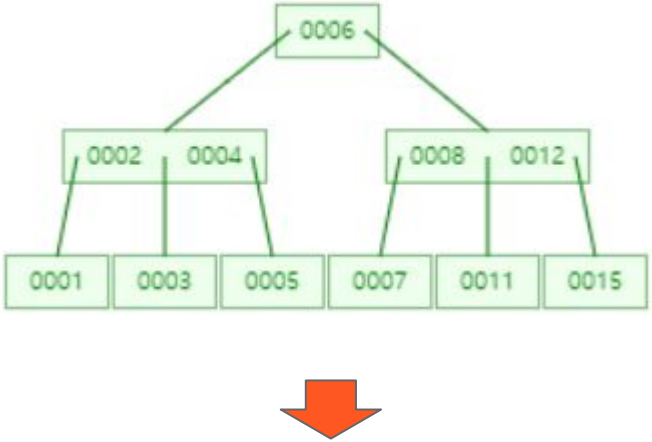
- **Input**
  - The first line contains size of heap
  - **i x** : insert element x
  - **p** : Display each key in the tree in sorted order. (Use **in-order traversal**)
- **You have to use file I/O like the previous assignment.**



lab 9. B-tree

- void inorder(struct node *root)

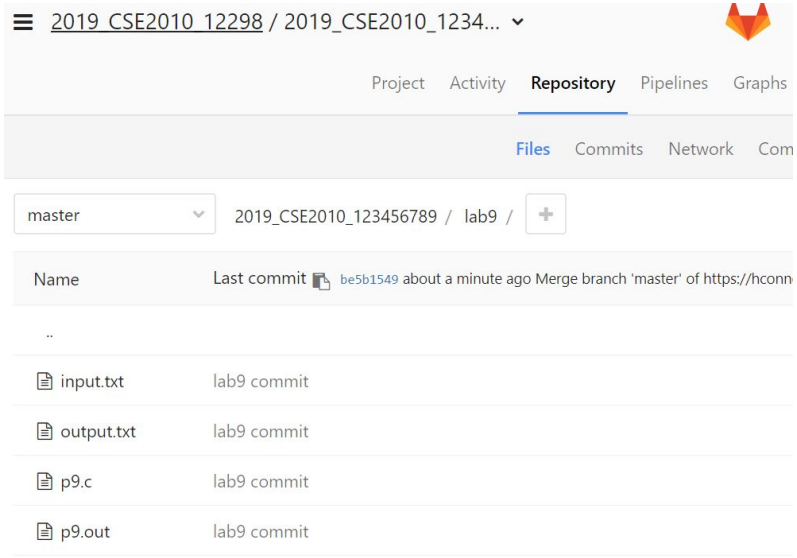
B-tree visualization 참고
https://www.cs.usfca.edu/~galles/visualization/BTree.html



1 2 3 4 5 6 7 8 11 12 15

lab 9. B-tree

- Submission
  - Project directory name : lab9
  - Source file name : p9.c
  - Executable file name : p9.out
  - You should upload in the hconnect (Gitlab) server.



DeadLine

Wednesday, 15 May, 23 : 59 pm